



**HL7 CDA® R2 Implementation Guide:
Quality Reporting Document Architecture Category I
(QRDA I); Release 1,
DSTU Release 3 - US Realm**

**Draft Standard for Trial Use
Volume 2 — Templates and Supporting Material**

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Logical Observation Identifiers Names & Codes (LOINC)	Regenstrief Institute
International Classification of Diseases (ICD) codes	World Health Organization (WHO)

Table of Contents

1	IMPORTANT NOTES:	2
2	DOCUMENT-LEVEL TEMPLATES.....	27
2.1	US Realm Header (V2)	27
2.1.1	Properties	36
2.1.2	QRDA Category I Framework (V2)	71
2.1.3	Properties	73
2.1.4	QDM-Based QRDA (V2)	75
2.1.5	Properties	78
3	SECTION-LEVEL TEMPLATES	82
3.1	Measure Section	82
3.1.1	Measure Section QDM.....	83
3.2	Patient Data Section	84
3.2.1	Patient Data Section QDM (V2).....	86
3.3	Reporting Parameters Section.....	111
4	ENTRY-LEVEL TEMPLATES.....	113
4.1	Act Intolerance or Adverse Event Observation (V2)	113
4.1.1	Diagnostic Study Adverse Event (V2)	117
4.1.2	Diagnostic Study Intolerance (V2).....	122
4.1.3	Intervention Adverse Event (V2).....	127
4.1.4	Intervention Intolerance (V2)	131
4.1.5	Laboratory Test Adverse Event (V2)	135
4.1.6	Laboratory Test Intolerance (V2).....	139
4.1.7	Procedure Adverse Event (V2).....	143
4.1.8	Procedure Intolerance (V2)	147
4.2	Age Observation.....	151
4.3	Allergy Status Observation (DEPRECATED) - Deprecated	153
4.4	Assessment Scale Observation	155
4.4.1	Risk Category Assessment (V2).....	158
4.5	Assessment Scale Supporting Observation.....	161
4.6	Communication from Patient to Provider (V2).....	163
4.7	Communication from Provider to Patient (V2)	168
4.8	Communication from Provider to Provider (V2).....	173
4.9	Deceased Observation (V2)	178

4.9.1	Patient Characteristic Expired (V2)	181
4.10	Discharge Medication - Active Medication (V2)	183
4.11	Drug Monitoring Act.....	187
4.12	Drug Vehicle	191
4.13	Encounter Activity (V2).....	193
4.13.1	Encounter Active (V2).....	198
4.13.2	Encounter Performed (V2)	203
4.14	Encounter Diagnosis (V2)	208
4.15	Entry Reference	210
4.16	External Document Reference	214
4.17	Family History Death Observation	215
4.18	Family History Observation (V2)	217
4.18.1	Diagnosis Family History Observation	222
4.19	Family History Organizer (V2)	227
4.19.1	Diagnosis Family History (V2).....	231
4.20	Goal Observation	233
4.20.1	Care Goal (V2)	239
4.21	Immunization Medication Information (V2)	244
4.22	Incision Datetime	248
4.23	Indication (V2)	250
4.24	Instruction (V2).....	253
4.25	Measure Reference	255
4.25.1	eMeasure Reference QDM	256
4.26	Medication Activity (V2)	263
4.26.1	Medication Active (V2)	277
4.27	Medication Administered (V2)	283
4.28	Medication Dispense (V2)	290
4.28.1	Medication Dispensed (V2)	294
4.29	Medication Information (V2)	299
4.30	Medication Supply Order (V2).....	303
4.31	Patient Care Experience (V2)	306
4.32	Patient Characteristic Clinical Trial Participant (V2)	310
4.33	Patient Characteristic Observation Assertion (V2)	314
4.34	Patient Characteristic Payer	317
4.35	Patient Preference (V2)	321
4.36	Planned Act (V2)	324

4.36.1	Intervention Order (V2)	328
4.36.2	Intervention Recommended (V2)	333
4.37	Planned Coverage.....	337
4.38	Planned Encounter (V2)	340
4.38.1	Encounter Order (V2).....	345
4.38.2	Encounter Recommended (V2).....	350
4.39	Planned Medication Activity (V2).....	354
4.39.1	Medication Order (V2)	360
4.39.2	Substance Recommended (V2).....	367
4.40	Planned Observation (V2)	372
4.40.1	Diagnostic Study Order (V2)	377
4.40.2	Diagnostic Study Recommended (V2).....	383
4.40.3	Functional Status Order (V2).....	387
4.40.4	Functional Status Recommended (V2)	391
4.40.5	Laboratory Test Order (V2)	395
4.40.6	Laboratory Test Recommended (V2).....	399
4.40.7	Physical Exam Order (V2).....	403
4.40.8	Physical Exam Recommended (V2)	408
4.41	Planned Procedure (V2)	413
4.41.1	Procedure Order (V2).....	419
4.41.2	Procedure Recommended (V2)	426
4.42	Planned Supply (V2)	431
4.42.1	Device Order (V2)	438
4.42.2	Device Recommended (V2).....	443
4.42.3	Medication Supply Request (V2)	448
4.43	Precondition for Substance Administration (V2)	450
4.44	Priority Preference	451
4.45	Problem Concern Act (V2).....	454
4.45.1	Diagnosis Active Concern Act	459
4.45.2	Diagnosis Inactive Concern Act	461
4.45.3	Diagnosis Resolved Concern Act	464
4.45.4	Symptom Active Concern Act	467
4.45.5	Symptom Assessed Concern Act	470
4.45.6	Symptom Inactive Concern Act.....	473
4.45.7	Symptom Resolved Concern Act	476
4.46	Problem Observation (V2)	479

4.46.1	Diagnosis Active (V2).....	489
4.46.2	Diagnosis Inactive (V2).....	495
4.46.3	Diagnosis Resolved (V2)	501
4.46.4	Symptom Active (V2)	506
4.46.5	Symptom Assessed (V2)	511
4.46.6	Symptom Inactive (V2)	516
4.46.7	Symptom Resolved (V2).....	521
4.47	Problem Status (DEPRECATED) - Deprecated	526
4.48	Procedure Activity Act (V2)	528
4.48.1	Intervention Performed (V2).....	536
4.49	Procedure Activity Observation (V2)	541
4.49.1	Diagnostic Study Performed (V2)	549
4.49.2	Functional Status Performed (V2).....	555
4.49.3	Physical Exam Performed (V2)	561
4.50	Procedure Activity Procedure (V2)	566
4.50.1	Device Applied (V2)	573
4.50.2	Procedure Performed (V2).....	579
4.51	Product Instance.....	586
4.52	Prognosis Observation.....	588
4.53	Provider Care Experience (V2).....	590
4.54	Provider Characteristic Observation Assertion.....	593
4.55	Provider Preference (V2)	598
4.56	Radiation Dosage and Duration (V2).....	601
4.57	Reaction Observation (V2)	604
4.57.1	Reaction (V2)	608
4.58	Reason (V2).....	610
4.59	Reporting Parameters Act.....	612
4.60	Result Observation (V2).....	614
4.60.1	Laboratory Test Performed (V2)	621
4.60.2	Result (V2).....	626
4.61	Service Delivery Location.....	628
4.62	Severity Observation (V2)	631
4.63	Status.....	634
4.64	Substance Administered Act.....	635
4.65	Substance or Device Allergy - Intolerance Observation (V2)	637
4.65.1	Allergy - Intolerance Observation (V2).....	642

4.65.2	Medication Adverse Effect (V2).....	649
4.65.3	Medication Allergy (V2).....	654
4.65.4	Medication Intolerance (V2)	659
4.65.5	Device Adverse Event (V2)	664
4.65.6	Device Allergy (V2)	669
4.65.7	Device Intolerance (V2).....	674
4.66	Target Outcome	679
4.67	Transfer From (V2)	681
4.68	Transfer To (V2)	686
5	SUBENTRY TEMPLATES.....	690
5.1	Facility Location.....	690
5.2	Fulfills	692
6	PARTICIPATION AND OTHER TEMPLATES.....	695
6.1	Author Participation.....	695
6.2	US Realm Address (AD.US.FIELDDED)	698
6.3	US Realm Date and Time (DTM.US.FIELDDED).....	701
6.4	US Realm Patient Name (PTN.US.FIELDDED).....	702
6.5	US Realm Person Name (PN.US.FIELDDED)	705
7	TEMPLATE IDS IN THIS GUIDE	707
8	VALUE SETS IN THIS GUIDE.....	734
9	CODE SYSTEMS IN THIS GUIDE	738
10	RETIRED TEMPLATES.....	740
11	CHANGES FROM PREVIOUS VERSION.....	745
11.1	QDM-Based QRDA (V2)	745
11.2	QRDA Category I Framework (V2)	748
11.3	Act Intolerance or Adverse Event Observation (V2)	750
11.4	Care Goal (V2).....	752
11.5	Communication from Patient to Provider (V2).....	755
11.6	Communication from Provider to Patient (V2).....	758
11.7	Communication from Provider to Provider (V2)	761
11.8	Device Adverse Event (V2)	764
11.9	Device Allergy (V2).....	767
11.10	Device Applied (V2)	770

11.11	Device Intolerance (V2)	774
11.12	Device Order (V2)	777
11.13	Device Recommended (V2)	780
11.14	Diagnosis Active (V2)	783
11.15	Diagnosis Family History (V2)	786
11.16	Diagnosis Inactive (V2)	787
11.17	Diagnosis Resolved (V2)	791
11.18	Diagnostic Study Adverse Event (V2)	795
11.19	Diagnostic Study Intolerance (V2)	799
11.20	Diagnostic Study Order (V2)	802
11.21	Diagnostic Study Performed (V2)	805
11.22	Diagnostic Study Recommended (V2)	808
11.23	Diagnostic Study Result (RETIRED)	811
11.24	Discharge Medication - Active Medication (V2)	814
11.25	Encounter Active (V2)	816
11.26	Encounter Order (V2)	818
11.27	Encounter Performed (V2)	821
11.28	Encounter Recommended (V2)	823
11.29	Functional Status Order (V2)	826
11.30	Functional Status Performed (V2)	829
11.31	Functional Status Recommended (V2)	832
11.32	Functional Status Result (RETIRED)	835
11.33	Intervention Adverse Event (V2)	837
11.34	Intervention Intolerance (V2)	840
11.35	Intervention Order (V2)	843
11.36	Intervention Performed (V2)	846
11.37	Intervention Recommended (V2)	849
11.38	Intervention Result (RETIRED)	852
11.39	Laboratory Test Adverse Event (V2)	855
11.40	Laboratory Test Intolerance (V2)	858
11.41	Laboratory Test Order (V2)	861
11.42	Laboratory Test Performed (V2)	864
11.43	Laboratory Test Recommended (V2)	867
11.44	Laboratory Test Result (RETIRED)	870
11.45	Medication Active (V2)	872
11.46	Medication Administered (V2)	876

11.47	Medication Adverse Effect (V2).....	880
11.48	Medication Allergy (V2).....	884
11.49	Medication Dispensed (V2)	888
11.50	Medication Intolerance (V2)	891
11.51	Medication Order (V2)	895
11.52	Medication Supply Request (V2)	901
11.53	Patient Care Experience (V2)	902
11.54	Patient Characteristic Clinical Trial Participant (V2)	904
11.55	Patient Characteristic Estimated Date of Conception (RETIRED)	906
11.56	Patient Characteristic Expired (V2)	907
11.57	Patient Characteristic Gestational Age (RETIRED)	908
11.58	Patient Characteristic Observation Assertion (V2)	910
11.59	Patient Preference (V2)	913
11.60	Physical Exam Finding (RETIRED).....	915
11.61	Physical Exam Order (V2).....	917
11.62	Physical Exam Performed (V2)	920
11.63	Physical Exam Recommended (V2)	922
11.64	Problem Status Active (RETIRED)	925
11.65	Problem Status Inactive (RETIRED)	926
11.66	Problem Status Resolved (RETIRED).....	927
11.67	Procedure Adverse Event (V2).....	928
11.68	Procedure Intolerance (V2)	931
11.69	Procedure Order (V2).....	934
11.70	Procedure Performed (V2)	938
11.71	Procedure Recommended (V2)	942
11.72	Procedure Result (RETIRED).....	946
11.73	Provider Care Experience (V2).....	949
11.74	Provider Preference (V2)	951
11.75	Radiation Dosage and Duration (V2).....	953
11.76	Reaction (V2)	955
11.77	Reason (V2).....	956
11.78	Result (V2)	957
11.79	Risk Category Assessment (V2)	958
11.80	Substance Recommended (V2).....	960
11.81	Symptom Active (V2)	963
11.82	Symptom Assessed (V2).....	966

11.83	Symptom Inactive (V2)	969
11.84	Symptom Resolved (V2)	972
11.85	Transfer From (V2)	975
11.86	Transfer To (V2)	978
11.87	Patient Data Section QDM (V2)	980

Table of Figures

Figure 1: US Realm Header (V2) Example	36
Figure 2: recordTarget Example	41
Figure 3: author Example	44
Figure 4: dateEnterer Example	45
Figure 5: Assigned Health Care Provider informant Example	46
Figure 6: Personal Relation informant Example	47
Figure 7: custodian Example	48
Figure 8: informationRecipient Example.....	49
Figure 9: Digital signature Example	50
Figure 10: legalAuthenticator Example.....	51
Figure 11: authenticator Example	53
Figure 12: Supporting Person participant Example.....	54
Figure 13: inFulfillmentOf Example	55
Figure 14: performer Example.....	57
Figure 15: documentationOf Example	58
Figure 16: authorization Example	59
Figure 17: documentationOf/serviceEvent example with identifiers	81
Figure 18: Measure Section QDM Example.....	84
Figure 19: Patient Data Section QDM Example.....	110
Figure 20: Diagnostic Study Adverse (V2) Event	121
Figure 21: Diagnostic Study Intolerance (V2) Example.....	126
Figure 22: Intervention Adverse Event (V2) Example.....	130
Figure 23: Intervention Intolerance (V2)	134
Figure 24: Laboratory Test Adverse Event (V2) Example	138
Figure 25: Laboratory Test Intolerance (V2) Example	142
Figure 26: Procedure Adverse Event (V2) Example	146

Figure 27: Procedure Intolerance (V2) Example	150
Figure 28: Age Observation Example	153
Figure 29: Assessment Scale Observation Example	158
Figure 30: Risk Category Assessment (V2) Example	161
Figure 31: Assessment Scale Supporting Observation Example	163
Figure 32: Communication from Patient to Provider (V2) Example	167
Figure 33: Communication from Provider to Patient (V2) Example	172
Figure 34: Communication from Provider to Provider (V2) Example	177
Figure 35: Deceased Observation (V2) Example	181
Figure 36: Patient Characteristic Expired (V2) Example	183
Figure 37: Discharge Medication - Active Medication (V2) Example	186
Figure 38: Drug Monitoring Act Example	191
Figure 39: Drug Vehicle Example	193
Figure 40: Encounter Activity (V2) Example	198
Figure 41: Encounter Active (V2) Example	202
Figure 42: Encounter Performed (V2) Example	207
Figure 43: Encounter Diagnosis (V2) Example	210
Figure 44: Entry Reference Example	212
Figure 45: Diagnosis Reference Example	213
Figure 46: External Document Reference Example	215
Figure 47: Family History Death Observation Example	217
Figure 48: Family History Observation (V2) Example	222
Figure 49: Diagnosis Family History Observation Example	226
Figure 50: Diagnosis Family History Observation - value/translation - Example	227
Figure 51: Family History Organizer (V2) Example	231
Figure 52: Diagnosis Family History (V2) Example	233
Figure 53: Goal Observation Example	238
Figure 54: Care Goal (V2) Example	243
Figure 55: Immunization Medication Information (V2) Example	248
Figure 56: Incision Datetime Example	250
Figure 57: Indication (V2) Example	252
Figure 58: Instruction (V2) Example	254
Figure 59: eMeasure Reference QDM Example	262

Figure 60: Medication Activity (V2) Example	276
Figure 61: No Known Medications Example	277
Figure 62: Medication Active (V2) Example	282
Figure 63: Medication Administered (V2) Example	287
Figure 64: Medication Administered - Not Done (Negation Rationale) - Example	289
Figure 65: Medication Dispense (V2) Example	293
Figure 66: Medication Dispensed (V2) Example	298
Figure 67: Medication Information (V2) Example	302
Figure 68: Medication Supply Order (V2) Example.....	306
Figure 69: Patient Care Experience (V2) Example	310
Figure 70: Patient Characteristic Clinical Trial Participant (V2) Example.....	314
Figure 71: Patient Characteristic Observation Assertion (V2) Example	317
Figure 72: Patient Characteristic Payer Example	320
Figure 73: Patient Preference (V2) Example	324
Figure 74: Planned Act (V2) Example	328
Figure 75: Intervention Order (V2) Example	332
Figure 76: Intervention Recommended (V2) Example	336
Figure 77: Planned Coverage Example.....	340
Figure 78: Planned Encounter (V2) Example	345
Figure 79: Encounter Order (V2) Example	349
Figure 80: Encounter Recommended (V2) Example.....	353
Figure 81: Planned Medication Activity (V2) Example.....	360
Figure 82: Medication Order (V2) Example	365
Figure 83: Substance Recommended (V2) Example.....	371
Figure 84: Planned Observation (V2) Example	377
Figure 85: Diagnostic Study Order (V2) Example	382
Figure 86: Diagnostic Study Recommended (V2) Example.....	386
Figure 87: Functional Status Order (V2) Example.....	390
Figure 88: Functional Status Recommended (V2) Example	394
Figure 89: Laboratory Test Order (V2) Example	398
Figure 90: Laboratory Test Recommended (V2) Example.....	402
Figure 91: Physical Exam Order (V2) Example.....	407
Figure 92: Physical Exam Recommended (V2) Example	412

Figure 93: Planned Procedure (V2) Example	418
Figure 94: Procedure Order (V2) Example.....	424
Figure 95: Procedure Order (V2) - targetSiteCode/translation - Example.....	425
Figure 96: Procedure Recommended (V2) Example	430
Figure 97: Procedure Recommended (V2) - targetSiteCode/translation Example.....	431
Figure 98: Planned Supply (V2) Example.....	437
Figure 99: Device Order (V2) Example	442
Figure 100: Device Recommended (V2) Example.....	447
Figure 101: Medication Supply Request (V2)	449
Figure 102: Precondition for Substance Administration (V2) Example	451
Figure 103: Priority Preference Example.....	453
Figure 104: Problem Concern Act (V2) Example.....	458
Figure 105: Diagnosis Active Concern Act Example	461
Figure 106: Diagnosis Inactive Concern Act Example	464
Figure 107: Diagnosis Resolved Concern Act Example	467
Figure 108: Symptom Active Concern Act Example.....	470
Figure 109: Symptom Assessed Concern Act Example	472
Figure 110: Symptom Inactive Concern Act Example	475
Figure 111: Symptom Resolved Concern Act Example	478
Figure 112: Problem Observation (V2) Example	484
Figure 113: No Known Problems Example	485
Figure 114: Resolved Problem and Resolved Concern Example	486
Figure 115: Problem with Qualifiers Example	488
Figure 116: Diagnosis Active (V2) Example.....	494
Figure 117: Diagnosis Inactive (V2) Example	500
Figure 118: Diagnosis Resolved (V2) Example.....	505
Figure 119: Symptom Active (V2) Example	510
Figure 120: Symptom Assessed (V2) Example.....	515
Figure 121: Symptom Inactive (V2) Example	520
Figure 122: Symptom Resolved (V2) Example	525
Figure 123: Procedure Activity Act Example	535
Figure 124: Intervention Performed (V2) Example.....	540
Figure 125: Procedure Activity Observation (V2) Example	548

Figure 126: Diagnostic Study Performed (V2) Example	554
Figure 127: Functional Status (V2) Example	560
Figure 128: Physical Exam Performed (V2) Example	565
Figure 129: Procedure Activity Procedure (V2) Example	573
Figure 130: Device Applied (V2) Example	578
Figure 131: Procedure Performed (V2) Example	584
Figure 132: Product Instance Example.....	587
Figure 133: Prognosis, Free Text Example	589
Figure 134: Prognosis, Coded Example	590
Figure 135: Provider Care Experience (V2) Example.....	593
Figure 136: Provider Characteristic Observation Assertion Example	597
Figure 137: Provider Preference (V2) Example	601
Figure 138: Radiation Dosage and Duration (V2) Width Example	603
Figure 139: Radiation Dosage and Duration (V2) Example	604
Figure 140: Reaction Observation (V2) Example	608
Figure 141: Reaction (V2) Example	609
Figure 142: Reason (V2) Example.....	612
Figure 143: Result Observation (V2) Example	619
Figure 144: Pending Result Observation (V2) Example.....	620
Figure 145: Original Lab Units in <translation> Example.....	620
Figure 146: Laboratory Test Performed (V2) Example.....	625
Figure 147: Result (V2) Example	627
Figure 148: Service Delivery Location Example	631
Figure 149: Severity Observation (V2) Example	633
Figure 150: Status Example.....	635
Figure 151: Substance Administered Act Example.....	637
Figure 152: Allergy - Intolerance Observation (V2) Example	648
Figure 153: Medication Adverse Effect (V2) Example.....	653
Figure 154: Medication Allergy (V2) Example	658
Figure 155: Medication Intolerance (V2) Example	663
Figure 156: Device Adverse Event (V2) Example	668
Figure 157: Device Allergy (V2) Example	673
Figure 158: Device Intolerance (V2)	678

Figure 159: Target Outcome Example	681
Figure 160: Transfer From (V2) Example	685
Figure 161: Transfer To (V2) Example	689
Figure 162: Fulfills Example	694
Figure 163: New Author Participant Example	698
Figure 164: Existing Author Reference Example	698
Figure 165: US Realm Address Example	701
Figure 166: US Realm Date and Time Example	702
Figure 167: US Realm Patient Name Example	705

Table of Tables

Table 1: US Realm Header (V2) Contexts	27
Table 2: US Realm Header (V2) Constraints Overview	28
Table 3: HL7 BasicConfidentialityKind	60
Table 4: Language	61
Table 5: Telecom Use (US Realm Header).....	61
Table 6: Administrative Gender (HL7 V3).....	62
Table 7: Marital Status	62
Table 8: Religious Affiliation.....	63
Table 9: Race Category Excluding Nulls	63
Table 10: Ethnicity	64
Table 11: Personal And Legal Relationship Role Type.....	64
Table 12: Country.....	65
Table 13: PostalCode	65
Table 14: PatientLanguage.....	66
Table 15: LanguageAbilityMode.....	67
Table 16: LanguageAbilityProficiency	67
Table 17: Race.....	68
Table 18: Healthcare Provider Taxonomy (HIPAA)	69
Table 19: INDRoleclassCodes	70
Table 20: x_ServiceEventPerformer	70
Table 21: ParticipationFunction	71
Table 22: QRDA Category I Framework (V2) Contexts	71

Table 23: QRDA Category I Framework (V2) Constraints Overview	72
Table 24: Detailed Ethnicity	74
Table 25: QDM-Based QRDA (V2) Contexts	75
Table 26: QDM-Based QRDA (V2) Constraints Overview	76
Table 27: Measure Section Contexts.....	82
Table 28: Measure Section Constraints Overview.....	82
Table 29: Measure Section QDM Contexts	83
Table 30: Measure Section QDM Constraints Overview	83
Table 31: Patient Data Section Contexts.....	84
Table 32: Patient Data Section Constraints Overview	85
Table 33: Patient Data Section QDM (V2) Contexts	86
Table 34: Patient Data Section QDM (V2) Constraints Overview	88
Table 35: Reporting Parameters Section Contexts	111
Table 36: Reporting Parameters Section Constraints Overview	111
Table 37: Act Intolerance or Adverse Event Observation (V2) Contexts	113
Table 38: Act Intolerance or Adverse Event Observation (V2) Constraints Overview	114
Table 39: Allergy/Adverse Event Type	116
Table 40: Diagnostic Study Adverse Event (V2) Contexts	117
Table 41: Diagnostic Study Adverse Event (V2) Constraints Overview.....	118
Table 42: Diagnostic Study Intolerance (V2) Contexts	122
Table 43: Diagnostic Study Intolerance (V2) Constraints Overview	123
Table 44: Intervention Adverse Event (V2) Contexts	127
Table 45: Intervention Adverse Event (V2) Constraints Overview	128
Table 46: Intervention Intolerance (V2) Contexts	131
Table 47: Intervention Intolerance (V2) Constraints Overview	132
Table 48: Laboratory Test Adverse Event (V2) Contexts.....	135
Table 49: Laboratory Test Adverse Event (V2) Constraints Overview.....	136
Table 50: Laboratory Test Intolerance (V2) Contexts	139
Table 51: Laboratory Test Intolerance (V2) Constraints Overview	140
Table 52: Procedure Adverse Event (V2) Contexts	143
Table 53: Procedure Adverse Event (V2) Constraints Overview	144
Table 54: Procedure Intolerance (V2) Contexts.....	147
Table 55: Procedure Intolerance (V2) Constraints Overview.....	148

Table 56: Age Observation Contexts	151
Table 57: Age Observation Constraints Overview	152
Table 58: AgePQ_UCUM.....	153
Table 59: Allergy Status Observation (DEPRECATED) Contexts	153
Table 60: Allergy Status Observation (DEPRECATED) Constraints Overview	154
Table 61: Problem Status.....	155
Table 62: Assessment Scale Observation Contexts.....	155
Table 63: Assessment Scale Observation Constraints Overview.....	156
Table 64: Risk Category Assessment (V2) Contexts	158
Table 65: Risk Category Assessment (V2) Constraints Overview	159
Table 66: Assessment Scale Supporting Observation Contexts.....	161
Table 67: Assessment Scale Supporting Observation Constraints Overview.....	162
Table 68: Communication from Patient to Provider (V2) Contexts.....	163
Table 69: Communication from Patient to Provider (V2) Constraints Overview.....	164
Table 70: Communication from Provider to Patient (V2) Contexts.....	168
Table 71: Communication from Provider to Patient (V2) Constraints Overview.....	169
Table 72: Communication from Provider to Provider (V2) Contexts	173
Table 73: Communication from Provider to Provider (V2) Constraints Overview	174
Table 74: Deceased Observation (V2) Contexts	178
Table 75: Deceased Observation (V2) Constraints Overview	179
Table 76: Patient Characteristic Expired (V2) Contexts	181
Table 77: Patient Characteristic Expired (V2) Constraints Overview	182
Table 78: Discharge Medication - Active Medication (V2) Contexts	183
Table 79: Discharge Medication - Active Medication (V2) Constraints Overview	184
Table 80: Drug Monitoring Act Contexts.....	187
Table 81: Drug Monitoring Act Constraints Overview.....	188
Table 82: ActStatus	190
Table 83: Drug Vehicle Contexts	191
Table 84: Drug Vehicle Constraints Overview	192
Table 85: Encounter Activity (V2) Contexts.....	193
Table 86: Encounter Activity (V2) Constraints Overview.....	194
Table 87: EncounterTypeCode	197
Table 88: Encounter Active (V2) Contexts.....	198

Table 89: Encounter Active (V2) Constraints Overview	199
Table 90: Encounter Performed (V2) Contexts	203
Table 91: Encounter Performed (V2) Constraints Overview	204
Table 92: Encounter Diagnosis (V2) Contexts	208
Table 93: Encounter Diagnosis (V2) Constraints Overview	209
Table 94: Entry Reference Contexts.....	210
Table 95: Entry Reference Constraints Overview.....	211
Table 96: External Document Reference Contexts.....	214
Table 97: External Document Reference Constraints Overview.....	214
Table 98: Family History Death Observation Contexts	215
Table 99: Family History Death Observation Constraints Overview	216
Table 100: Family History Observation (V2) Contexts	217
Table 101: Family History Observation (V2) Constraints Overview.....	218
Table 102: Problem Type.....	220
Table 103: Problem.....	221
Table 104: Diagnosis Family History Observation Contexts.....	222
Table 105: Diagnosis Family History Observation Constraints Overview	223
Table 106: Family History Organizer (V2) Contexts	227
Table 107: Family History Organizer (V2) Constraints Overview	228
Table 108: Family Member Value Set	230
Table 109: Diagnosis Family History (V2) Contexts	231
Table 110: Diagnosis Family History (V2) Constraints Overview	232
Table 111: Goal Observation Contexts.....	233
Table 112: Goal Observation Constraints Overview.....	234
Table 113: Care Goal (V2) Contexts	239
Table 114: Care Goal (V2) Constraints Overview	240
Table 115: Immunization Medication Information (V2) Contexts	244
Table 116: Immunization Medication Information (V2) Constraints Overview.....	245
Table 117: CVX Vaccines Administered - Vaccine Set	246
Table 118: Vaccine Clinical Drug	247
Table 119: Specific Vaccine Clinical Drug.....	247
Table 120: Incision Datetime Contexts	248
Table 121: Incision Datetime Constraints Overview	249

Table 122: Indication (V2) Contexts.....	250
Table 123: Indication (V2) Constraints Overview.....	251
Table 124: Instruction (V2) Contexts	253
Table 125: Instruction (V2) Constraints Overview	253
Table 126: Patient Education	254
Table 127: Measure Reference Contexts	255
Table 128: Measure Reference Constraints Overview	255
Table 129: eMeasure Reference QDM Contexts	256
Table 130: eMeasure Reference QDM Constraints Overview	258
Table 131: Medication Activity (V2) Contexts	263
Table 132: Medication Activity (V2) Constraints Overview	265
Table 133: MoodCodeEvnInt	271
Table 134: Medication Route FDA	272
Table 135: Body Site.....	273
Table 136: UnitsOfMeasureCaseSensitive.....	274
Table 137: AdministrableDrugForm	275
Table 138: Medication Active (V2) Contexts	277
Table 139: Medication Active (V2) Constraints Overview	279
Table 140: Medication Administered (V2) Contexts	283
Table 141: Medication Administered (V2) Constraints Overview	284
Table 142: Medication Dispense (V2) Contexts	290
Table 143: Medication Dispense (V2) Constraints Overview.....	291
Table 144: Medication Fill Status	293
Table 145: Medication Dispensed (V2) Contexts.....	294
Table 146: Medication Dispensed (V2) Constraints Overview.....	295
Table 147: Medication Information (V2) Contexts.....	299
Table 148: Medication Information (V2) Constraints Overview.....	300
Table 149: Medication Clinical Drug	301
Table 150: Clinical Substance.....	302
Table 151: Medication Supply Order (V2) Contexts	303
Table 152: Medication Supply Order (V2) Constraints Overview	304
Table 153: Patient Care Experience (V2) Contexts.....	306
Table 154: Patient Care Experience (V2) Constraints Overview.....	308

Table 155: Patient Characteristic Clinical Trial Participant (V2) Contexts	310
Table 156: Patient Characteristic Clinical Trial Participant (V2) Constraints Overview	312
Table 157: Patient Characteristic Observation Assertion (V2) Contexts.....	314
Table 158: Patient Characteristic Observation Assertion (V2) Constraints Overview.....	316
Table 159: Patient Characteristic Payer Contexts.....	317
Table 160: Patient Characteristic Payer Constraints Overview.....	318
Table 161: Payer.....	319
Table 162: Patient Preference (V2) Contexts	321
Table 163: Patient Preference (V2) Constraints Overview.....	323
Table 164: Planned Act (V2) Contexts.....	324
Table 165: Planned Act (V2) Constraints Overview.....	325
Table 166: Planned moodCode (Act/Encounter/Procedure).....	327
Table 167: Intervention Order (V2) Contexts.....	328
Table 168: Intervention Order (V2) Constraints Overview.....	330
Table 169: Intervention Recommended (V2) Contexts	333
Table 170: Intervention Recommended (V2) Constraints Overview	334
Table 171: Planned Coverage Contexts.....	337
Table 172: Planned Coverage Constraints Overview.....	338
Table 173: Planned Encounter (V2) Contexts.....	340
Table 174: Planned Encounter (V2) Constraints Overview.....	341
Table 175: Encounter Planned.....	344
Table 176: Encounter Order (V2) Contexts	345
Table 177: Encounter Order (V2) Constraints Overview	347
Table 178: Encounter Recommended (V2) Contexts.....	350
Table 179: Encounter Recommended (V2) Constraints Overview	351
Table 180: Planned Medication Activity (V2) Contexts.....	354
Table 181: Planned Medication Activity (V2) Constraints Overview.....	355
Table 182: Planned moodCode (SubstanceAdministration/Supply)	359
Table 183: Medication Order (V2) Contexts.....	360
Table 184: Medication Order (V2) Constraints Overview.....	362
Table 185: Substance Recommended (V2) Contexts.....	367
Table 186: Substance Recommended (V2) Constraints Overview.....	368
Table 187: Planned Observation (V2) Contexts	372

Table 188: Planned Observation (V2) Constraints Overview	373
Table 189: Planned moodCode (Observation)	376
Table 190: Diagnostic Study Order (V2) Contexts	377
Table 191: Diagnostic Study Order (V2) Constraints Overview	379
Table 192: Diagnostic Study Recommended (V2) Contexts	383
Table 193: Diagnostic Study Recommended (V2) Constraints Overview	384
Table 194: Functional Status Order (V2) Contexts	387
Table 195: Functional Status Order (V2) Constraints Overview	388
Table 196: Functional Status Recommended (V2) Contexts	391
Table 197: Functional Status Recommended (V2) Constraints Overview	392
Table 198: Laboratory Test Order (V2) Contexts	395
Table 199: Laboratory Test Order (V2) Constraints Overview	396
Table 200: Laboratory Test Recommended (V2) Contexts	399
Table 201: Laboratory Test Recommended (V2) Constraints Overview	400
Table 202: Physical Exam Order (V2) Contexts	403
Table 203: Physical Exam Order (V2) Constraints Overview	404
Table 204: Physical Exam Recommended (V2) Contexts	408
Table 205: Physical Exam Recommended (V2) Constraints Overview	409
Table 206: Planned Procedure (V2) Contexts	413
Table 207: Planned Procedure (V2) Constraints Overview	414
Table 208: Procedure Order (V2) Contexts	419
Table 209: Procedure Order (V2) Constraints Overview	420
Table 210: Procedure Recommended (V2) Contexts	426
Table 211: Procedure Recommended (V2) Constraints Overview	427
Table 212: Planned Supply (V2) Contexts	431
Table 213: Planned Supply (V2) Constraints Overview	433
Table 214: Device Order (V2) Contexts	438
Table 215: Device Order (V2) Constraints Overview	439
Table 216: Device Recommended (V2) Contexts	443
Table 217: Device Recommended (V2) Constraints Overview	444
Table 218: Medication Supply Request (V2) Contexts	448
Table 219: Medication Supply Request (V2) Constraints Overview	448
Table 220: Precondition for Substance Administration (V2) Contexts	450

Table 221: Precondition for Substance Administration (V2) Constraints Overview	450
Table 222: Priority Preference Contexts	451
Table 223: Priority Preference Constraints Overview	452
Table 224: Priority Level	453
Table 225: Problem Concern Act (V2) Contexts	454
Table 226: Problem Concern Act (V2) Constraints Overview	455
Table 227: ProblemAct statusCode	457
Table 228: Diagnosis Active Concern Act Contexts	459
Table 229: Diagnosis Active Concern Act Constraints Overview	460
Table 230: Diagnosis Inactive Concern Act Contexts.....	461
Table 231: Diagnosis Inactive Concern Act Constraints Overview.....	462
Table 232: Diagnosis Resolved Concern Act Contexts	464
Table 233: Diagnosis Resolved Concern Act Constraints Overview	465
Table 234: Symptom Active Concern Act Contexts	467
Table 235: Symptom Active Concern Act Constraints Overview	468
Table 236: Symptom Assessed Concern Act Contexts	470
Table 237: Symptom Assessed Concern Act Constraints Overview	471
Table 238: Symptom Inactive Concern Act Contexts	473
Table 239: Symptom Inactive Concern Act Constraints Overview	474
Table 240: Symptom Resolved Concern Act Contexts.....	476
Table 241: Symptom Resolved Concern Act Constraints Overview.....	477
Table 242: Problem Observation (V2) Contexts	479
Table 243: Problem Observation (V2) Constraints Overview	480
Table 244: Diagnosis Active (V2) Contexts	489
Table 245: Diagnosis Active (V2) Constraints Overview	490
Table 246: Diagnosis Inactive (V2) Contexts	495
Table 247: Diagnosis Inactive (V2) Constraints Overview	497
Table 248: Diagnosis Resolved (V2) Contexts	501
Table 249: Diagnosis Resolved (V2) Constraints Overview	502
Table 250: Symptom Active (V2) Contexts	506
Table 251: Symptom Active (V2) Constraints Overview	507
Table 252: Symptom Assessed (V2) Contexts	511
Table 253: Symptom Assessed (V2) Constraints Overview.....	512

Table 254: Symptom Inactive (V2) Contexts	516
Table 255: Symptom Inactive (V2) Constraints Overview	517
Table 256: Symptom Resolved (V2) Contexts	521
Table 257: Symptom Resolved (V2) Constraints Overview	522
Table 258: Problem Status (DEPRECATED) Contexts	526
Table 259: Problem Status (DEPRECATED) Constraints Overview	527
Table 260: Procedure Activity Act (V2) Contexts	528
Table 261: Procedure Activity Act (V2) Constraints Overview	529
Table 262: Act Priority	534
Table 263: ProcedureAct statusCode	534
Table 264: Intervention Performed (V2) Contexts	536
Table 265: Intervention Performed (V2) Constraints Overview	537
Table 266: Procedure Activity Observation (V2) Contexts	541
Table 267: Procedure Activity Observation (V2) Constraints Overview	542
Table 268: Diagnostic Study Performed (V2) Contexts	549
Table 269: Diagnostic Study Performed (V2) Constraints Overview	550
Table 270: Functional Status Performed (V2) Contexts	555
Table 271: Functional Status Performed (V2) Constraints Overview	557
Table 272: Physical Exam Performed (V2) Contexts	561
Table 273: Physical Exam Performed (V2) Constraints Overview	562
Table 274: Procedure Activity Procedure (V2) Contexts	566
Table 275: Procedure Activity Procedure (V2) Constraints Overview	567
Table 276: Device Applied (V2) Contexts	573
Table 277: Device Applied (V2) Constraints Overview	574
Table 278: Procedure Performed (V2) Contexts	579
Table 279: Procedure Performed (V2) Constraints Overview	580
Table 280: Product Instance Contexts	586
Table 281: Product Instance Constraints Overview	587
Table 282: Prognosis Observation Contexts	588
Table 283: Prognosis Observation Constraints Overview	588
Table 284: Provider Care Experience (V2) Contexts	590
Table 285: Provider Care Experience (V2) Constraints Overview	591
Table 286: Provider Characteristic Observation Assertion Contexts	593

Table 287: Provider Characteristic Observation Assertion Constraints Overview	595
Table 288: Provider Preference (V2) Contexts	598
Table 289: Provider Preference (V2) Constraints Overview	600
Table 290: Radiation Dosage and Duration (V2) Contexts	601
Table 291: Radiation Dosage and Duration (V2) Constraints Overview	602
Table 292: Reaction Observation (V2) Contexts	604
Table 293: Reaction Observation (V2) Constraints Overview	605
Table 294: Reaction (V2) Contexts	608
Table 295: Reaction (V2) Constraints Overview	609
Table 296: Reason (V2) Contexts	610
Table 297: Reason (V2) Constraints Overview	611
Table 298: Reporting Parameters Act Contexts	612
Table 299: Reporting Parameters Act Constraints Overview	613
Table 300: Result Observation (V2) Contexts	614
Table 301: Result Observation (V2) Constraints Overview	615
Table 302: Result Status	617
Table 303: Observation Interpretation (HL7)	618
Table 304: Laboratory Test Performed (V2) Contexts	621
Table 305: Laboratory Test Performed (V2) Constraints Overview	622
Table 306: Result (V2) Contexts	626
Table 307: Result (V2) Constraints Overview	626
Table 308: Service Delivery Location Contexts	628
Table 309: Service Delivery Location Constraints Overview	628
Table 310: HealthcareServiceLocation	630
Table 311: Severity Observation (V2) Contexts	631
Table 312: Severity Observation (V2) Constraints Overview	632
Table 313: Problem Severity	633
Table 314: Status Contexts	634
Table 315: Status Constraints Overview	634
Table 316: Substance Administered Act Contexts	635
Table 317: Substance Administered Act Constraints Overview	636
Table 318: Substance or Device Allergy - Intolerance Observation (V2) Contexts	637
Table 319: Substance or Device Allergy - Intolerance Observation (V2) Constraints Overview	638

Table 320: Substance-Reactant for Intolerance.....	642
Table 321: Allergy - Intolerance Observation (V2) Contexts	642
Table 322: Allergy - Intolerance Observation (V2) Constraints Overview	644
Table 323: Medication Adverse Effect (V2) Contexts	649
Table 324: Medication Adverse Effect (V2) Constraints Overview	650
Table 325: Medication Allergy (V2) Contexts	654
Table 326: Medication Allergy (V2) Constraints Overview	655
Table 327: Medication Intolerance (V2) Contexts	659
Table 328: Medication Intolerance (V2) Constraints Overview	660
Table 329: Device Adverse Event (V2) Contexts.....	664
Table 330: Device Adverse Event (V2) Constraints Overview.....	665
Table 331: Device Allergy (V2) Contexts	669
Table 332: Device Allergy (V2) Constraints Overview	670
Table 333: Device Intolerance (V2) Contexts	674
Table 334: Device Intolerance (V2) Constraints Overview	675
Table 335: Target Outcome Contexts.....	679
Table 336: Target Outcome Constraints Overview.....	680
Table 337: Transfer From (V2) Contexts	681
Table 338: Transfer From (V2) Constraints Overview	682
Table 339: Transfer To (V2) Contexts	686
Table 340: Transfer To (V2) Constraints Overview.....	687
Table 341: Facility Location Contexts	690
Table 342: Facility Location Constraints Overview	691
Table 343: Fulfills Constraints Overview	693
Table 344: Author Participation Contexts	695
Table 345: Author Participation Constraints Overview	696
Table 346: US Realm Address (AD.US.FIELDDED) Contexts.....	698
Table 347: US Realm Address (AD.US.FIELDDED) Constraints Overview.....	699
Table 348: PostalAddressUse	700
Table 349: StateValueSet.....	701
Table 350: US Realm Date and Time (DTM.US.FIELDDED) Contexts	701
Table 351: US Realm Date and Time (DTM.US.FIELDDED) Constraints Overview	702
Table 352: US Realm Patient Name (PTN.US.FIELDDED) Contexts	702

Table 353: US Realm Patient Name (PTN.US.FIELDDED) Constraints Overview	703
Table 354: EntityNameUse.....	704
Table 355: EntityPersonNamePartQualifier.....	705
Table 356: US Realm Person Name (PN.US.FIELDDED) Contexts	705
Table 357: US Realm Person Name (PN.US.FIELDDED) Constraints Overview	706
Table 358: Template List.....	707
Table 359: Template Containments	715
Table 360: Value Sets	734
Table 361: Code Systems	738
Table 362: Retired Templates	740

2 DOCUMENT-LEVEL TEMPLATES

2.1 US Realm Header (V2)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2014-06-09 (open)]

Table 1: US Realm Header (V2) Contexts

Contained By:	Contains:
	US Realm Address (AD.US.FIELDED) US Realm Date and Time (DTM.US.FIELDED) US Realm Person Name (PN.US.FIELDED)

This template defines constraints that represent common administrative and demographic concepts for US Realm CDA documents. Further specification, such as ClinicalDocument/code, are provided in document templates that conform to this template.

Table 2: US Realm Header (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2014-06-09)					
realmCode	1..1	SHALL		1098-16791	US
typeId	1..1	SHALL		1098-5361	
@root	1..1	SHALL		1098-5250	2.16.840.1.113883.1.3
@extension	1..1	SHALL		1098-5251	POCD_HD000040
templateId	1..1	SHALL		1098-5252	
@root	1..1	SHALL		1098-10036	2.16.840.1.113883.10.20.22.1.1
@extension	1..1	SHALL		1098-32503	2014-06-09
id	1..1	SHALL		1098-5363	
code	1..1	SHALL		1098-5253	
title	1..1	SHALL		1098-5254	
effectiveTime	1..1	SHALL		1098-5256	US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4)
confidentialityCode	1..1	SHALL		1098-5259	urn:oid:2.16.840.1.113883.1.11.1 6926 (HL7 BasicConfidentialityKind)
languageCode	1..1	SHALL		1098-5372	urn:oid:2.16.840.1.113883.1.11.1 1526 (Language)
setId	0..1	MAY		1098-5261	
versionNumber	0..1	MAY		1098-5264	
recordTarget	1..*	SHALL		1098-5266	
patientRole	1..1	SHALL		1098-5267	
id	1..*	SHALL		1098-5268	
addr	1..*	SHALL		1098-5271	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)

telecom	1..*	SHALL		1098-5280	
@use	0..1	SHOULD		1098-5375	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
patient	1..1	SHALL		1098-5283	
name	1..*	SHALL		1098-5284	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
administrativeGenderCode	1..1	SHALL		1098-6394	urn:oid:2.16.840.1.113883.1.11.1 (Administrative Gender (HL7 V3))
birthTime	1..1	SHALL		1098-5298	
maritalStatusCode	0..1	SHOULD		1098-5303	urn:oid:2.16.840.1.113883.1.11.1 2212 (Marital Status)
religiousAffiliationCode	0..1	MAY		1098-5317	urn:oid:2.16.840.1.113883.1.11.1 9185 (Religious Affiliation)
raceCode	1..1	SHALL		1098-5322	urn:oid:2.16.840.1.113883.3.207 4.1.1.3 (Race Category Excluding Nulls)
sdtc:raceCode	0..*	MAY		1098-7263	urn:oid:2.16.840.1.113883.1.11.1 4914 (Race)
ethnicGroupCode	1..1	SHALL		1098-5323	urn:oid:2.16.840.1.114222.4.11.8 37 (Ethnicity)
guardian	0..*	MAY		1098-5325	
code	0..1	SHOULD		1098-5326	urn:oid:2.16.840.1.113883.11.20.12.1 (Personal And Legal Relationship Role Type)
addr	0..*	SHOULD		1098-5359	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
telecom	0..*	SHOULD		1098-5382	
@use	0..1	SHOULD		1098-7993	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
guardianPerson	1..1	SHALL		1098-5385	
name	1..*	SHALL		1098-5386	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
birthplace	0..1	MAY		1098-5395	
place	1..1	SHALL		1098-	

				5396	
addr	1..1	SHALL		1098-5397	
country	0..1	SHOULD		1098-5404	urn:oid:2.16.840.1.113883.3.88.12.80.63 (Country)
postalCode	0..1	MAY		1098-5403	urn:oid:2.16.840.1.113883.3.88.12.80.2 (PostalCode)
languageCommunication	1..*	SHALL		1098-5406	
languageCode	1..1	SHALL		1098-5407	urn:oid:2.16.840.1.113883.11.20.9.64 (PatientLanguage)
modeCode	0..1	MAY		1098-5409	urn:oid:2.16.840.1.113883.1.11.12249 (LanguageAbilityMode)
proficiencyLevelCode	0..1	SHOULD		1098-9965	urn:oid:2.16.840.1.113883.1.11.12199 (LanguageAbilityProficiency)
preferenceInd	0..1	SHOULD		1098-5414	
providerOrganization	0..1	MAY		1098-5416	
id	1..*	SHALL		1098-5417	
@root	0..1	SHOULD		1098-16820	2.16.840.1.113883.4.6
name	1..*	SHALL		1098-5419	
telecom	1..*	SHALL		1098-5420	
@use	0..1	SHOULD		1098-7994	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
addr	1..*	SHALL		1098-5422	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
author	1..*	SHALL		1098-5444	
time	1..1	SHALL		1098-5445	US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4)
assignedAuthor	1..1	SHALL		1098-5448	
id	1..*	SHALL		1098-5449	
id	0..1	SHOULD		1098-32882	
@nullFlavor	0..1	MAY		1098-32883	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = UNK

@root	1..1	SHALL		1098-32884	2.16.840.1.113883.4.6
@extension	0..1	SHOULD		1098-32885	
code	0..1	SHOULD		1098-16787	
@code	1..1	SHALL		1098-16788	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		1098-5452	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
telecom	1..*	SHALL		1098-5428	
@use	0..1	SHOULD		1098-7995	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
assignedPerson	0..1	SHOULD		1098-5430	
name	1..*	SHALL		1098-16789	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
assignedAuthoringDevice	0..1	SHOULD		1098-16783	
manufacturerModelName	1..1	SHALL		1098-16784	
softwareName	1..1	SHALL		1098-16785	
dataEnterer	0..1	MAY		1098-5441	
assignedEntity	1..1	SHALL		1098-5442	
id	1..*	SHALL		1098-5443	
@root	0..1	SHOULD		1098-16821	2.16.840.1.113883.4.6
code	0..1	MAY		1098-32173	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		1098-5460	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
telecom	1..*	SHALL		1098-5466	
@use	0..1	SHOULD		1098-7996	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm

					Header))
assignedPerson	1..1	SHALL		1098-5469	
name	1..*	SHALL		1098-5470	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
informant	0..*	MAY		1098-8001	
assignedEntity	1..1	SHALL		1098-8002	
id	1..*	SHALL		1098-9945	
code	0..1	MAY		1098-32174	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		1098-8220	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
assignedPerson	1..1	SHALL		1098-8221	
name	1..*	SHALL		1098-8222	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
informant	0..*	MAY		1098-31355	
relatedEntity	1..1	SHALL		1098-31356	
custodian	1..1	SHALL		1098-5519	
assignedCustodian	1..1	SHALL		1098-5520	
representedCustodianOrganization	1..1	SHALL		1098-5521	
id	1..*	SHALL		1098-5522	
@root	0..1	SHOULD		1098-16822	2.16.840.1.113883.4.6
name	1..1	SHALL		1098-5524	
telecom	1..1	SHALL		1098-5525	
@use	0..1	SHOULD		1098-7998	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
addr	1..1	SHALL		1098-5559	US Realm Address (AD.US.FIELDDED) (identifier:

					urn:oid:2.16.840.1.113883.10.20.22.5.2
informationRecipient	0..*	MAY		1098-5565	
intendedRecipient	1..1	SHALL		1098-5566	
id	0..*	MAY		1098-32399	
informationRecipient	0..1	MAY		1098-5567	
name	1..*	SHALL		1098-5568	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
receivedOrganization	0..1	MAY		1098-5577	
name	1..1	SHALL		1098-5578	
legalAuthenticator	0..1	SHOULD		1098-5579	
time	1..1	SHALL		1098-5580	US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4)
signatureCode	1..1	SHALL		1098-5583	
@code	1..1	SHALL		1098-5584	urn:oid:2.16.840.1.113883.5.89 (Participationsignature) = S
sdtc:signatureText	0..1	MAY		1098-30810	
assignedEntity	1..1	SHALL		1098-5585	
id	1..*	SHALL		1098-5586	
@root	0..1	MAY		1098-16823	2.16.840.1.113883.4.6
code	0..1	MAY		1098-17000	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		1098-5589	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
telecom	1..*	SHALL		1098-5595	
@use	0..1	SHOULD		1098-7999	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
assignedPerson	1..1	SHALL		1098-	

				5597	
name	1..*	SHALL		1098-5598	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
authenticator	0..*	MAY		1098-5607	
time	1..1	SHALL		1098-5608	US Realm Date and Time (DTM.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4)
signatureCode	1..1	SHALL		1098-5610	
@code	1..1	SHALL		1098-5611	urn:oid:2.16.840.1.113883.5.89 (Participationsignature) = S
sdtc:signatureText	0..1	MAY		1098-30811	
assignedEntity	1..1	SHALL		1098-5612	
id	1..*	SHALL		1098-5613	
@root	0..1	SHOULD		1098-16824	2.16.840.1.113883.4.6
code	0..1	MAY		1098-16825	
@code	0..1	MAY		1098-16826	urn:oid:2.16.840.1.114222.4.11.1.066 (Healthcare Provider Taxonomy (HIPAA))
addr	1..*	SHALL		1098-5616	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
telecom	1..*	SHALL		1098-5622	
@use	0..1	SHOULD		1098-8000	urn:oid:2.16.840.1.113883.11.20.9.20 (Telecom Use (US Realm Header))
assignedPerson	1..1	SHALL		1098-5624	
name	1..*	SHALL		1098-5625	US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
participant	0..*	MAY		1098-10003	
time	0..1	MAY		1098-10004	
inFulfillmentOf	0..*	MAY		1098-9952	

order	1..1	SHALL		1098-9953	
id	1..*	SHALL		1098-9954	
documentationOf	0..*	MAY		1098-14835	
serviceEvent	1..1	SHALL		1098-14836	
effectiveTime	1..1	SHALL		1098-14837	
low	1..1	SHALL		1098-14838	
performer	0..*	SHOULD		1098-14839	
@typeCode	1..1	SHALL		1098-14840	urn:oid:2.16.840.1.113883.1.11.19601 (x_ServiceEventPerformer)
functionCode	0..1	MAY		1098-16818	
@code	0..1	SHOULD		1098-32889	urn:oid:2.16.840.1.113883.1.11.10267 (ParticipationFunction)
assignedEntity	1..1	SHALL		1098-14841	
id	1..*	SHALL		1098-14846	
@root	0..1	SHOULD		1098-14847	2.16.840.1.113883.4.6
code	0..1	SHOULD		1098-14842	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
authorization	0..*	MAY		1098-16792	
consent	1..1	SHALL		1098-16793	
id	0..*	MAY		1098-16794	
code	0..1	MAY		1098-16795	
statusCode	1..1	SHALL		1098-16797	
@code	1..1	SHALL		1098-16798	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = completed
componentOf	0..1	MAY		1098-9955	
encompassingEncounter	1..1	SHALL		1098-9956	
id	1..*	SHALL		1098-9959	

effectiveTime	1..1	SHALL		1098-9958	
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2.1.1 Properties

2.1.1.1 realmCode

1. **SHALL** contain exactly one [1..1] **realmCode**="US" (CONF:1098-16791).

Figure 1: US Realm Header (V2) Example

```
<ClinicalDocument>
  <realmCode code="US" />
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3" />
  <!-- CCD template -->
  <templateId root="2.16.840.1.113883.10.20.22.1.1" extension="2014-06-09" />
  <!-- Globally unique identifier for the document -->
  <id extension="TT988" root="2.16.840.1.113883.19.5.99999.1" />
  <code code="34133-9" displayName="Summarization of Episode Note"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
  <!-- Title of the document -->
  <title>Patient Chart Summary</title>
  <effectiveTime value="201209151030-0800" />
  <confidentialityCode code="N" displayName="normal" codeSystem="2.16.840.1.113883.5.25"
codeSystemName="Confidentiality" />
  <languageCode code="en-US" />
  <setId extension="sTT988" root="2.16.840.1.113883.19.5.99999.19" />
  <!-- Version of the document -->
  <versionNumber value="1" />
  . . .
</ClinicalDocument>
```

2. **SHALL** contain exactly one [1..1] **typeId** (CONF:1098-5361).
 - a. This typeId **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.1.3" (CONF:1098-5250).
 - b. This typeId **SHALL** contain exactly one [1..1] **@extension**="POCD_HD000040" (CONF:1098-5251).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-5252) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.1.1" (CONF:1098-10036).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32503).
4. **SHALL** contain exactly one [1..1] **id** (CONF:1098-5363).
 - a. This id **SHALL** be a globally unique identifier for the document (CONF:1098-9991).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-5253).
 - a. This code **SHALL** specify the particular kind of document (e.g., History and Physical, Discharge Summary, Progress Note) (CONF:1098-9992).

6. **SHALL** contain exactly one [1..1] **title** (CONF:1098-5254).
Note: The title can either be a locally defined name or the displayName corresponding to clinicalDocument/code
7. **SHALL** contain exactly one [1..1] **US Realm Date and Time (DTM.US.FIELDDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1098-5256).
8. **SHALL** contain exactly one [1..1] **confidentialityCode**, which **SHOULD** be selected from ValueSet **HL7 BasicConfidentialityKind** urn:oid:2.16.840.1.113883.1.11.16926 **STATIC** 2010-04-21 (CONF:1098-5259).
9. **SHALL** contain exactly one [1..1] **languageCode**, which **SHALL** be selected from ValueSet **Language** urn:oid:2.16.840.1.113883.1.11.11526 **DYNAMIC** (CONF:1098-5372).
10. **MAY** contain zero or one [0..1] **setId** (CONF:1098-5261).
 - a. If setId is present versionNumber **SHALL** be present (CONF:1098-6380).
11. **MAY** contain zero or one [0..1] **versionNumber** (CONF:1098-5264).
 - a. If versionNumber is present setId **SHALL** be present (CONF:1098-6387).

2.1.1.2 recordTarget

The recordTarget records the administrative and demographic data of the patient whose health information is described by the clinical document; each recordTarget must contain at least one patientRole element

12. **SHALL** contain at least one [1..*] **recordTarget** (CONF:1098-5266).
 - a. Such recordTargets **SHALL** contain exactly one [1..1] **patientRole** (CONF:1098-5267).
 - i. This patientRole **SHALL** contain at least one [1..*] **id** (CONF:1098-5268).
 - ii. This patientRole **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-5271).
 - iii. This patientRole **SHALL** contain at least one [1..*] **telecom** (CONF:1098-5280).
 1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)** urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1098-5375).
 - iv. This patientRole **SHALL** contain exactly one [1..1] **patient** (CONF:1098-5283).
 1. This patient **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1098-5284).
 2. This patient **SHALL** contain exactly one [1..1] **administrativeGenderCode**, which **SHALL** be selected from ValueSet **Administrative Gender (HL7 V3)** urn:oid:2.16.840.1.113883.1.11.1 **DYNAMIC** (CONF:1098-6394).
 3. This patient **SHALL** contain exactly one [1..1] **birthTime** (CONF:1098-5298).

- a. **SHALL** be precise to year (CONF:1098-5299).
- b. **SHOULD** be precise to day (CONF:1098-5300).

For cases where information about newborn's time of birth needs to be captured.

- c. **MAY** be precise to the minute (CONF:1098-32418).
4. This patient **SHOULD** contain zero or one [0..1] **maritalStatusCode**, which **SHALL** be selected from ValueSet [Marital Status](#)
urn:oid:2.16.840.1.113883.1.11.12212 **DYNAMIC** (CONF:1098-5303).
 5. This patient **MAY** contain zero or one [0..1] **religiousAffiliationCode**, which **SHALL** be selected from ValueSet [Religious Affiliation](#)
urn:oid:2.16.840.1.113883.1.11.19185 **DYNAMIC** (CONF:1098-5317).
 6. This patient **SHALL** contain exactly one [1..1] **raceCode**, which **SHALL** be selected from ValueSet [Race Category Excluding Nulls](#)
urn:oid:2.16.840.1.113883.3.2074.1.1.3 **DYNAMIC** (CONF:1098-5322).
 7. This patient **MAY** contain zero or more [0..*] **sdtc:raceCode**, which **SHALL** be selected from ValueSet [Race](#)
urn:oid:2.16.840.1.113883.1.11.14914 **DYNAMIC** (CONF:1098-7263).
Note: The sdtc:raceCode is only used to record additional values when the patient has indicated multiple races or additional race detail beyond the five categories required for Meaningful Use Stage 2. The prefix sdtc: SHALL be bound to the namespace “urn:hl7-org:sdtc”. The use of the namespace provides a necessary extension to CDA R2 for the use of the additional raceCode elements.
 - a. If sdtc:raceCode is present, then the patient **SHALL** contain [1..1] raceCode (CONF:1098-31347).
 8. This patient **SHALL** contain exactly one [1..1] **ethnicGroupCode**, which **SHALL** be selected from ValueSet [Ethnicity](#)
urn:oid:2.16.840.1.114222.4.11.837 **DYNAMIC** (CONF:1098-5323).
 9. This patient **MAY** contain zero or more [0..*] **guardian** (CONF:1098-5325).
 - a. The guardian, if present, **SHOULD** contain zero or one [0..1] **code**, which **SHALL** be selected from ValueSet [Personal And Legal Relationship Role Type](#)
urn:oid:2.16.840.1.113883.11.20.12.1 **DYNAMIC** (CONF:1098-5326).
 - b. The guardian, if present, **SHOULD** contain zero or more [0..*] [US Realm Address \(AD.US.FIELDDED\)](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-5359).

- c. The guardian, if present, **SHOULD** contain zero or more [0..*] **telecom** (CONF:1098-5382).
 - i. The telecom, if present, **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#)
urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1098-7993).
 - d. The guardian, if present, **SHALL** contain exactly one [1..1] **guardianPerson** (CONF:1098-5385).
 - i. This guardianPerson **SHALL** contain at least one [1..*] [US Realm Person Name \(PN.US.FIELDDED\)](#)
(identifier:
urn:oid:2.16.840.1.113883.10.20.22.5.1.1)
(CONF:1098-5386).
10. This patient **MAY** contain zero or one [0..1] **birthplace** (CONF:1098-5395).
- a. The birthplace, if present, **SHALL** contain exactly one [1..1] **place** (CONF:1098-5396).
 - i. This place **SHALL** contain exactly one [1..1] **addr** (CONF:1098-5397).
 - 1. This addr **SHOULD** contain zero or one [0..1] **country**, which **SHALL** be selected from ValueSet [Country](#)
urn:oid:2.16.840.1.113883.3.88.12.80.63 **DYNAMIC** (CONF:1098-5404).
 - 2. This addr **MAY** contain zero or one [0..1] **postalCode**, which **SHALL** be selected from ValueSet [PostalCode](#)
urn:oid:2.16.840.1.113883.3.88.12.80.2 **DYNAMIC** (CONF:1098-5403).
 - 3. If country is US, this addr **SHOULD** contain zero to one [0..1] **state**, which **SHALL** be selected from ValueSet [StateValueSet](#)
2.16.840.1.113883.3.88.12.80.1 **DYNAMIC** (CONF:1098-5402).
11. This patient **SHALL** contain at least one [1..*] **languageCommunication** (CONF:1098-5406).
- a. Such languageCommunications **SHALL** contain exactly one [1..1] **languageCode**, which **SHALL** be selected from ValueSet [PatientLanguage](#)
urn:oid:2.16.840.1.113883.11.20.9.64 **DYNAMIC** (CONF:1098-5407).
 - b. Such languageCommunications **MAY** contain zero or one [0..1] **modeCode**, which **SHALL** be selected from ValueSet [LanguageAbilityMode](#)
urn:oid:2.16.840.1.113883.1.11.12249 **DYNAMIC** (CONF:1098-5409).

- c. Such languageCommunications **SHOULD** contain zero or one [0..1] **proficiencyLevelCode**, which **SHALL** be selected from ValueSet LanguageAbilityProficiency urn:oid:2.16.840.1.113883.1.11.12199 **DYNAMIC** (CONF:1098-9965).
 - d. Such languageCommunications **SHOULD** contain zero or one [0..1] **preferenceInd** (CONF:1098-5414).
- v. This patientRole **MAY** contain zero or one [0..1] **providerOrganization** (CONF:1098-5416).
 - 1. The providerOrganization, if present, **SHALL** contain at least one [1..*] **id** (CONF:1098-5417).
 - a. Such ids **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1098-16820).
 - 2. The providerOrganization, if present, **SHALL** contain at least one [1..*] **name** (CONF:1098-5419).
 - 3. The providerOrganization, if present, **SHALL** contain at least one [1..*] **telecom** (CONF:1098-5420).
 - a. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet Telecom Use (US Realm Header) urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1098-7994).
 - 4. The providerOrganization, if present, **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-5422).

Figure 2: recordTarget Example

```
<recordTarget>
  <patientRole>
    <id extension="444-22-2222" root="2.16.840.1.113883.4.1" />
    <!-- Example Social Security Number using the actual SSN OID. -->
    <addr use="HP">
      <!-- HP is "primary home" from codeSystem 2.16.840.1.113883.5.1119 -->
      <streetAddressLine>2222 Home Street</streetAddressLine>
      <city>Beaverton</city>
      <state>OR</state>
      <postalCode>97867</postalCode>
      <country>US</country>
      <!-- US is "United States" from ISO 3166-1 Country Codes: 1.0.3166.1 -->
    </addr>
    <telecom value="tel:+1(555)555-2003" use="HP" />
    <!-- HP is "primary home" from HL7 AddressUse 2.16.840.1.113883.5.1119 -->
  </patient>
  <!-- The first name element represents what the patient is known as -->
  <name use="L">
    <given>Eve</given>
    <!-- The "SP" is "Spouse" from
          HL7 Code System EntityNamePartQualifier 2.16.840.1.113883.5.43 -->
    <family qualifier="SP">Betterhalf</family>
  </name>
  <!-- The second name element represents another name
        associated with the patient -->
  <name>
    <given>Eve</given>
    <!-- The "BR" is "Birth" from
          HL7 Code System EntityNamePartQualifier 2.16.840.1.113883.5.43 -->
    <family qualifier="BR">Everywoman</family>
  </name>
  <administrativeGenderCode code="F" displayName="Female"
codeSystem="2.16.840.1.113883.5.1" codeSystemName="AdministrativeGender" />
  <!-- Date of birth need only be precise to the day -->
  <birthTime value="19750501" />
  <maritalStatusCode code="M" displayName="Married"
codeSystem="2.16.840.1.113883.5.2" codeSystemName="MaritalStatusCode" />
  <religiousAffiliationCode code="1013" displayName="Christian (non-Catholic,
non-specific)" codeSystem="2.16.840.1.113883.5.1076" codeSystemName="HL7 Religious
Affiliation" />
  <!-- CDC Race and Ethnicity code set contains the five minimum
        race and ethnicity categories defined by OMB Standards -->
  <raceCode code="2106-3" displayName="White"
codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />
  <!-- The raceCode extension is only used if raceCode is valued -->
  <sdtc:raceCode code="2076-8" displayName="Hawaiian or Other Pacific Islander"
codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />
  <ethnicGroupCode code="2186-5" displayName="Not Hispanic or Latino"
codeSystem="2.16.840.1.113883.6.238" codeSystemName="Race & Ethnicity - CDC" />
  <guardian>
    <code code="POWATT" displayName="Power of Attorney"
codeSystem="2.16.840.1.113883.1.11.19830" codeSystemName="ResponsibleParty" />
    <addr use="HP">
      <streetAddressLine>2222 Home Street</streetAddressLine>
      <city>Beaverton</city>
```

```

        <state>OR</state>
        <postalCode>97867</postalCode>
        <country>US</country>
    </addr>
    <telecom value="tel:+1(555)555-2008" use="MC" />
    <guardianPerson>
        <name>
            <given>Boris</given>
            <given qualifier="CL">Bo</given>
            <family>Betterhalf</family>
        </name>
    </guardianPerson>
</guardian>
<birthplace>
    <place>
        <addr>
            <streetAddressLine>4444 Home Street</streetAddressLine>
            <city>Beaverton</city>
            <state>OR</state>
            <postalCode>97867</postalCode>
            <country>US</country>
        </addr>
    </place>
</birthplace>
<languageCommunication>
    <languageCode code="eng" />
    <!-- "eng" is ISO 639-2 alpha-3 code for "English" -->
    <modeCode code="ESP" displayName="Expressed spoken"
codeSystem="2.16.840.1.113883.5.60" codeSystemName="LanguageAbilityMode" />
    <proficiencyLevelCode code="G" displayName="Good"
codeSystem="2.16.840.1.113883.5.61" codeSystemName="LanguageAbilityProficiency" />
    <!-- Patient's preferred language -->
    <preferenceInd value="true" />
</languageCommunication>
</patient>
<providerOrganization>
    <id extension="219BX" root="1.1.1.1.1.1.1.2" />
    <name>The DoctorsTogether Physician Group</name>
    <telecom use="WP" value="tel: +(555)-555-5000" />
    <addr>
        <streetAddressLine>1007 Health Drive</streetAddressLine>
        <city>Portland</city>
        <state>OR</state>
        <postalCode>99123</postalCode>
        <country>US</country>
    </addr>
</providerOrganization>
</patientRole>
</recordTarget>

```

2.1.1.3 author

The author element represents the creator of the clinical document. The author may be a device or a person.

13. **SHALL** contain at least one [1..*] **author** (CONF:1098-5444).

- a. Such authors **SHALL** contain exactly one [1..1] **US Realm Date and Time (DTM.US.FIELDDED)** (identifier:
urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1098-5445).
- b. Such authors **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:1098-5448).
 - i. This assignedAuthor **SHALL** contain at least one [1..*] **id** (CONF:1098-5449).

If this assignedAuthor is an assignedPerson

- ii. This assignedAuthor **SHOULD** contain zero or one [0..1] **id** (CONF:1098-32882) such that it

If id with @root="2.16.840.1.113883.4.6" National Provider Identifier is unknown then

1. **MAY** contain zero or one [0..1] **@nullFlavor="UNK"** Unknown (CodeSystem: HL7NullFlavor
urn:oid:2.16.840.1.113883.5.1008) (CONF:1098-32883).
2. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.4.6"** National Provider Identifier (CONF:1098-32884).
3. **SHOULD** contain zero or one [0..1] **@extension** (CONF:1098-32885).

Only if this assignedAuthor is an assignedPerson should the assignedAuthor contain a code.

- iii. This assignedAuthor **SHOULD** contain zero or one [0..1] **code** (CONF:1098-16787).
 1. The code, if present, **SHALL** contain exactly one [1..1] **@code**, which **SHOULD** be selected from ValueSet **Healthcare Provider Taxonomy (HIPAA)** urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:1098-16788).
- iv. This assignedAuthor **SHALL** contain at least one [1..*] **US Realm Address (AD.US.FIELDDED)** (identifier:
urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-5452).
- v. This assignedAuthor **SHALL** contain at least one [1..*] **telecom** (CONF:1098-5428).
 1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet **Telecom Use (US Realm Header)**
urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1098-7995).
- vi. This assignedAuthor **SHOULD** contain zero or one [0..1] **assignedPerson** (CONF:1098-5430).
 1. The assignedPerson, if present, **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDDED)** (identifier:
urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1098-16789).
- vii. This assignedAuthor **SHOULD** contain zero or one [0..1] **assignedAuthoringDevice** (CONF:1098-16783).
 1. The assignedAuthoringDevice, if present, **SHALL** contain exactly one [1..1] **manufacturerModelName** (CONF:1098-16784).

2. The assignedAuthoringDevice, if present, **SHALL** contain exactly one [1..1] **softwareName** (CONF:1098-16785).
- viii. There **SHALL** be exactly one assignedAuthor/assignedPerson or exactly one assignedAuthor/assignedAuthoringDevice (CONF:1098-16790).

Figure 3: author Example

```
<author>
  <time value="201209151030-0800" />
  <assignedAuthor>
    <id extension="5555555555" root="2.16.840.1.113883.4.6" />
    <code code="163W00000X" displayName="Registered nurse"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
    <addr>
      <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555)555-1004" />
    <assignedPerson>
      <name>
        <given>Patricia</given>
        <given qualifier="CL">Patty</given>
        <family>Primary</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </assignedPerson>
  </assignedAuthor>
</author>
```

2.1.1.4 dataEnterer

The dataEnterer element represents the person who transferred the content, written or dictated, into the clinical document. To clarify, an author provides the content found within the header or body of a document, subject to their own interpretation; a dataEnterer adds an author's information to the electronic system.

14. **MAY** contain zero or one [0..1] **dataEnterer** (CONF:1098-5441).
 - a. The dataEnterer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-5442).
 - i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1098-5443).
 1. Such ids **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1098-16821).
 - ii. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy \(HIPAA\)](#) urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:1098-32173).

- iii. This assignedEntity **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-5460).
- iv. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:1098-5466).
 - 1. Such telecoms **SHOULD** contain zero or one [0..1] @use, which **SHALL** be selected from ValueSet Telecom Use (US Realm Header) (identifier: urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1098-7996).
- v. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:1098-5469).
 - 1. This assignedPerson **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1098-5470).

Figure 4: dateEnterer Example

```

<dataEnterer>
  <assignedEntity>
    <id extension="333777777" root="2.16.840.1.113883.4.6" />
    <addr>
      <streetAddressLine>1007 Healthcare Drive</streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555)555-1050" />
    <assignedPerson>
      <name>
        <given>Ellen</given>
        <family>Enter</family>
      </name>
    </assignedPerson>
  </assignedEntity>
</dataEnterer>

```

2.1.1.5 informant

The informant element describes an information source for any content within the clinical document. This informant is constrained for use when the source of information is an assigned health care provider for the patient.

- 15. **MAY** contain zero or more [0..*] **informant** (CONF:1098-8001) such that it
 - a. **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-8002).
 - i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1098-9945).
 - 1. If assignedEntity/id is a provider then this id, **SHOULD** include zero or one [0..1] id where id/@root ="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1098-9946).

- ii. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet Healthcare Provider Taxonomy (HIPAA) urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:1098-32174).
- iii. This assignedEntity **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-8220).
- iv. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:1098-8221).
 - 1. This assignedPerson **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1098-8222).

Figure 5: Assigned Health Care Provider informant Example

```

<informant>
  <assignedEntity>
    <id extension="8888888888" root="1.1.1.1.1.1.1.3" />
    <addr>
      <streetAddressLine>1007 Healthcare Drive</streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555)555-1003" />
    <assignedPerson>
      <name>
        <given>Harold</given>
        <family>Hippocrates</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </assignedPerson>
    <representedOrganization>
      <name>The DoctorsApart Physician Group</name>
    </representedOrganization>
  </assignedEntity>
</informant>

```

2.1.1.6 informant

The informant element describes an information source (who is not a provider) for any content within the clinical document. This informant would be used when the source of information has a personal relationship with the patient or is the patient.

- 16. **MAY** contain zero or more [0..*] **informant** (CONF:1098-31355) such that it
 - a. **SHALL** contain exactly one [1..1] **relatedEntity** (CONF:1098-31356).

Figure 6: Personal Relation informant Example

```
<informant>
  <relatedEntity classCode="PRS">
    <!-- classCode "PRS" represents a person with personal relationship with the patient -->
    <code code="SPS" displayName="SPOUSE" codeSystem="2.16.840.1.113883.1.11.19563"
codeSystemName="Personal Relationship Role Type Value Set" />
    <relatedPerson>
      <name>
        <given>Boris</given>
        <given qualifier="CL">Bo</given>
        <family>Betterhalf</family>
      </name>
    </relatedPerson>
  </relatedEntity>
</informant>
```

2.1.1.7 custodian

The custodian element represents the organization that is in charge of maintaining and is entrusted with the care of the document.

There is only one custodian per CDA document. Allowing that a CDA document may not represent the original form of the authenticated document, the custodian represents the steward of the original source document. The custodian may be the document originator, a health information exchange, or other responsible party.

17. **SHALL** contain exactly one [1..1] **custodian** (CONF:1098-5519).
 - a. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:1098-5520).
 - i. This assignedCustodian **SHALL** contain exactly one [1..1] **representedCustodianOrganization** (CONF:1098-5521).
 1. This representedCustodianOrganization **SHALL** contain at least one [1..*] **id** (CONF:1098-5522).
 - a. Such ids **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1098-16822).
 2. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **name** (CONF:1098-5524).
 3. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **telecom** (CONF:1098-5525).
 - a. This telecom **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#) urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1098-7998).
 4. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **US Realm Address (AD.US.FIELDDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-5559).

Figure 7: custodian Example

```
<custodian>
  <assignedCustodian>
    <representedCustodianOrganization>
      <id extension="321CX" root="1.1.1.1.1.1.1.1.3" />
      <name>Good Health HIE</name>
      <telecom use="WP" value="tel:+1(555)555-1009" />
      <addr use="WP">
        <streetAddressLine>1009 Healthcare Drive </streetAddressLine>
        <city>Portland</city>
        <state>OR</state>
        <postalCode>99123</postalCode>
        <country>US</country>
      </addr>
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
```

2.1.1.8 informationRecipient

The informationRecipient element records the intended recipient of the information at the time the document was created. In cases where the intended recipient of the document is the patient's health chart, set the receivedOrganization to the scoping organization for that chart.

18. **MAY** contain zero or more [0..*] **informationRecipient** (CONF:1098-5565).

a. The informationRecipient, if present, **SHALL** contain exactly one [1..1] **intendedRecipient** (CONF:1098-5566).

i. This intendedRecipient **MAY** contain zero or more [0..*] **id** (CONF:1098-32399).

ii. This intendedRecipient **MAY** contain zero or one [0..1] **informationRecipient** (CONF:1098-5567).

1. The informationRecipient, if present, **SHALL** contain at least one [1..*] **US Realm Person Name (PN.US.FIELDDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1098-5568).

iii. This intendedRecipient **MAY** contain zero or one [0..1] **receivedOrganization** (CONF:1098-5577).

1. The receivedOrganization, if present, **SHALL** contain exactly one [1..1] **name** (CONF:1098-5578).

Figure 8: informationRecipient Example

```
<informationRecipient>
  <intendedRecipient>
    <informationRecipient>
      <name>
        <given>Sara</given>
        <family>Specialize</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </informationRecipient>
  <receivedOrganization>
    <name>The DoctorsApart Physician Group</name>
  </receivedOrganization>
</intendedRecipient>
</informationRecipient>
```

2.1.1.9 legalAuthenticator

The legalAuthenticator identifies the single person legally responsible for the document and must be present if the document has been legally authenticated. A clinical document that does not contain this element has not been legally authenticated.

The act of legal authentication requires a certain privilege be granted to the legal authenticator depending upon local policy. Based on local practice, clinical documents may be released before legal authentication.

All clinical documents have the potential for legal authentication, given the appropriate credentials.

Local policies MAY choose to delegate the function of legal authentication to a device or system that generates the clinical document. In these cases, the legal authenticator is a person accepting responsibility for the document, not the generating device or system.

Note that the legal authenticator, if present, must be a person.

19. **SHOULD** contain zero or one [0..1] **legalAuthenticator** (CONF:1098-5579).

- a. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] **US Realm Date and Time (DTM.US.FIELDDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1098-5580).
- b. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] **signatureCode** (CONF:1098-5583).
 - i. This signatureCode **SHALL** contain exactly one [1..1] **@code="S"** (CodeSystem: Participationsignature urn:oid:2.16.840.1.113883.5.89 **STATIC**) (CONF:1098-5584).

2.1.1.10 sdtc:signatureText

The sdtc:signatureText extension provides a location in CDA for a textual or multimedia depiction of the signature by which the participant endorses and accepts responsibility for his or her participation in the Act as specified in the Participation.typeCode. Details of what goes in the field are described in the HL7 CDA Digital Signature Standard balloted in Fall of 2013.

- c. The legalAuthenticator, if present, **MAY** contain zero or one [0..1] **sdtc:signatureText** (CONF:1098-30810).
 Note: The signature can be represented either inline or by reference according to the ED data type. Typical cases for CDA are:
 1) Electronic signature: this attribute can represent virtually any electronic signature scheme.
 2) Digital signature: this attribute can represent digital signatures by reference to a signature data block that is constructed in accordance to a digital signature standard, such as XML-DSIG, PKCS#7, PGP, etc.

Figure 9: Digital signature Example

```
<sdtc:signatureText mediaType="text/xml"
representation="B64">omSJUEdmde9j44zmMiromSJUEdmde9j44zmMirdMDSsWdIJdksIJR3373jeu83
6edjzMMIjdMDSsWdIJdksIJR3373jeu83MNYD83jmMdomSJUEdmde9j44zmMir
... MNYD83jmMdomSJUEdmde9j44zmMir6edjzMMIjdMDSsWdIJdksIJR3373jeu83
4zmMir6edjzMMIjdMDSsWdIJdksIJR3373jeu83==</sdtc:signatureText>
```

- d. The legalAuthenticator, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-5585).
- i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1098-5586).
 1. Such ids **MAY** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1098-16823).
 - ii. This assignedEntity **MAY** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy \(HIPAA\)](#) urn:oid:2.16.840.1.114222.4.11.1066 **DYNAMIC** (CONF:1098-17000).
 - iii. This assignedEntity **SHALL** contain at least one [1..*] [US Realm Address \(AD.US.FIELDDED\)](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-5589).
 - iv. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:1098-5595).
 1. Such telecoms **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [Telecom Use \(US Realm Header\)](#) urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1098-7999).
 - v. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:1098-5597).
 1. This assignedPerson **SHALL** contain at least one [1..*] [US Realm Person Name \(PN.US.FIELDDED\)](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1098-5598).

Figure 10: legalAuthenticator Example

```
<legalAuthenticator>
  <time value="20120915223615-0800" />
  <signatureCode code="S" />
  <assignedEntity>
    <id extension="5555555555" root="2.16.840.1.113883.4.6" />
    <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
    <addr>
      <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555)555-1004" />
    <assignedPerson>
      <name>
        <given>Patricia</given>
        <given qualifier="CL">Patty</given>
        <family>Primary</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </assignedPerson>
  </assignedEntity>
</legalAuthenticator>
```

2.1.1.11 authenticator

The authenticator identifies a participant or participants who attest to the accuracy of the information in the document.

20. **MAY** contain zero or more [0..*] **authenticator** (CONF:1098-5607) such that it
- SHALL** contain exactly one [1..1] **US Realm Date and Time (DTM.US.FIELDDED)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4) (CONF:1098-5608).
 - SHALL** contain exactly one [1..1] **signatureCode** (CONF:1098-5610).
 - This signatureCode **SHALL** contain exactly one [1..1] **@code="S"** (CodeSystem: Participationsignature urn:oid:2.16.840.1.113883.5.89 **STATIC**) (CONF:1098-5611).

The sdtc:signatureText extension provides a location in CDA for a textual or multimedia depiction of the signature by which the participant endorses and accepts responsibility for his or her participation in the Act as specified in the Participation.typeCode. Details of what goes in the field are described in the HL7 CDA Digital Signature Standard balloted in Fall of 2013.

- MAY** contain zero or one [0..1] **sdtc:signatureText** (CONF:1098-30811).

Note: The signature can be represented either inline or by reference according to the ED data type. Typical cases for CDA are:

 - Electronic signature: this attribute can represent virtually any electronic signature scheme.
 - Digital signature: this attribute can represent digital signatures by reference to a

signature data block that is constructed in accordance to a digital signature standard, such as XML-DSIG, PKCS#7, PGP, etc.

- d. **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-5612).
 - i. This **assignedEntity** **SHALL** contain at least one [1..*] **id** (CONF:1098-5613).
 - 1. Such **ids** **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1098-16824).
 - ii. This **assignedEntity** **MAY** contain zero or one [0..1] **code** (CONF:1098-16825).
 - 1. The code, if present, **MAY** contain zero or one [0..1] **@code**, which **SHOULD** be selected from ValueSet Healthcare Provider Taxonomy (HIPAA) urn:oid:2.16.840.1.114222.4.11.1066 **STATIC** (CONF:1098-16826).
 - iii. This **assignedEntity** **SHALL** contain at least one [1..*] US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-5616).
 - iv. This **assignedEntity** **SHALL** contain at least one [1..*] **telecom** (CONF:1098-5622).
 - 1. Such **telecoms** **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet Telecom Use (US Realm Header) urn:oid:2.16.840.1.113883.11.20.9.20 **DYNAMIC** (CONF:1098-8000).
 - v. This **assignedEntity** **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:1098-5624).
 - 1. This **assignedPerson** **SHALL** contain at least one [1..*] US Realm Person Name (PN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1) (CONF:1098-5625).

Figure 11: authenticator Example

```
<authenticator>
  <time value="201209151030-0800" />
  <signatureCode code="S" />
  <assignedEntity>
    <id extension="5555555555" root="2.16.840.1.113883.4.6" />
    <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
    <addr>
      <streetAddressLine>1004 Healthcare Drive</streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555)555-1004" />
    <assignedPerson>
      <name>
        <given>Patricia</given>
        <given qualifier="CL">Patty</given>
        <family>Primary</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </assignedPerson>
  </assignedEntity>
</authenticator>
```

2.1.1.12 participant

The participant element identifies supporting entities, including parents, relatives, caregivers, insurance policyholders, guarantors, and others related in some way to the patient.

A supporting person or organization is an individual or an organization with a relationship to the patient. A supporting person who is playing multiple roles would be recorded in multiple participants (e.g., emergency contact and next-of-kin).

21. **MAY** contain zero or more [0..*] **participant** (CONF:1098-10003) such that it
- MAY** contain zero or one [0..1] **time** (CONF:1098-10004).
 - SHALL** contain associatedEntity/associatedPerson **AND/OR** associatedEntity/scopingOrganization (CONF:1098-10006).
 - When participant/@typeCode is **IND**, associatedEntity/@classCode **SHOULD** be selected from ValueSet 2.16.840.1.113883.11.20.9.33 INDRoleclassCodes **STATIC 2011-09-30** (CONF:1098-10007).

Figure 12: Supporting Person participant Example

```
<participant typeCode="IND">
  <!-- typeCode "IND" represents an individual -->
  <associatedEntity classCode="NOK">
    <!-- classCode "NOK" represents the patient's next of kin-->
    <addr use="HP">
      <streetAddressLine>2222 Home Street</streetAddressLine>
      <city>Beaverton</city>
      <state>OR</state>
      <postalCode>97867</postalCode>
      <country>US</country>
    </addr>
    <telecom value="tel:+1(555)555-2008" use="MC" />
    <associatedPerson>
      <name>
        <given>Boris</given>
        <given qualifier="CL">Bo</given>
        <family>Betterhalf</family>
      </name>
    </associatedPerson>
  </associatedEntity>
</participant>
<!-- Entities playing multiple roles are recorded in multiple participants -->
<participant typeCode="IND">
  <associatedEntity classCode="ECON">
    <!-- classCode "ECON" represents an emergency contact -->
    <addr use="HP">
      <streetAddressLine>2222 Home Street</streetAddressLine>
      <city>Beaverton</city>
      <state>OR</state>
      <postalCode>97867</postalCode>
      <country>US</country>
    </addr>
    <telecom value="tel:+1(555)555-2008" use="MC" />
    <associatedPerson>
      <name>
        <given>Boris</given>
        <given qualifier="CL">Bo</given>
        <family>Betterhalf</family>
      </name>
    </associatedPerson>
  </associatedEntity>
</participant>
```

2.1.1.13 inFulfillmentOf

The inFulfillmentOf element represents orders that are fulfilled by this document such as a radiologists' report of an x-ray.

22. **MAY** contain zero or more [0..*] inFulfillmentOf (CONF:1098-9952).

- a. The inFulfillmentOf, if present, **SHALL** contain exactly one [1..1] **order** (CONF:1098-9953).
 - i. This order **SHALL** contain at least one [1..*] **id** (CONF:1098-9954).

Figure 13: inFulfillmentOf Example

```
<inFulfillmentOf typeCode="FLFS">
  <order classCode="ACT" moodCode="RQO">
    <id root="2.16.840.1.113883.6.96" extension="1298989898" />
    <code code="388975008" displayName="Weight Reduction Consultation"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="CPT4" />
  </order>
</inFulfillmentOf>
```

2.1.1.14 documentationOf

23. **MAY** contain zero or more [0..*] **documentationOf** (CONF:1098-14835).

A serviceEvent represents the main act being documented, such as a colonoscopy or a cardiac stress study. In a provision of healthcare serviceEvent, the care providers, PCP, or other longitudinal providers, are recorded within the serviceEvent. If the document is about a single encounter, the providers associated can be recorded in the componentOf/encompassingEncounter template.

- a. The documentationOf, if present, **SHALL** contain exactly one [1..1] **serviceEvent** (CONF:1098-14836).
 - i. This serviceEvent **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-14837).
 1. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1098-14838).

2.1.1.15 performer

The performer participant represents clinicians who actually and principally carry out the serviceEvent. In a transfer of care this represents the healthcare providers involved in the current or pertinent historical care of the patient. Preferably, the patient's key healthcare care team members would be listed, particularly their primary physician and any active consulting physicians, therapists, and counselors.

- ii. This serviceEvent **SHOULD** contain zero or more [0..*] **performer** (CONF:1098-14839).
 1. The performer, if present, **SHALL** contain exactly one [1..1] **@typeCode**, which **SHALL** be selected from ValueSet [x ServiceEventPerformer](#) urn:oid:2.16.840.1.113883.1.11.19601 **STATIC** 2014-09-01 (CONF:1098-14840).
 2. The performer, if present, **MAY** contain zero or one [0..1] **functionCode** (CONF:1098-16818).
 - a. The functionCode, if present, **SHOULD** contain zero or one [0..1] **@code**, which **SHOULD** be selected from ValueSet [ParticipationFunction](#) urn:oid:2.16.840.1.113883.1.11.10267 **STATIC** 2014-09-01 (CONF:1098-32889).

3. The performer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-14841).
 - a. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1098-14846).
 - i. Such ids **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider Identifier (CONF:1098-14847).
 - b. This assignedEntity **SHOULD** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy \(HIPAA\)](#) **urn:oid:2.16.840.1.114222.4.11.1066 DYNAMIC** (CONF:1098-14842).

Figure 14: performer Example

```
<performer typeCode="PRF">
  <functionCode code="PCP"
    displayName="Primary Care Provider"
    codeSystem="2.16.840.1.113883.5.88"
    codeSystemName="ParticipationFunction">
    <originalText>Primary Care Provider</originalText>
  </functionCode>
  <assignedEntity>
    <id extension="5555555555" root="2.16.840.1.113883.4.6" />
    <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
    <addr>
      <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
      <city>Portland</city>
      <state>OR</state>
      <postalCode>99123</postalCode>
      <country>US</country>
    </addr>
    <telecom use="WP" value="tel:+1(555)555-1004" />
    <assignedPerson>
      <name>
        <given>Patricia</given>
        <given qualifier="CL">Patty</given>
        <family>Primary</family>
        <suffix qualifier="AC">M.D.</suffix>
      </name>
    </assignedPerson>
    <representedOrganization>
      <id extension="219BX" root="1.1.1.1.1.1.1.2" />
      <name>The DoctorsTogether Physician Group</name>
      <telecom use="WP" value="tel: +(555)-555-5000" />
      <addr>
        <streetAddressLine>1004 Health Drive</streetAddressLine>
        <city>Portland</city>
        <state>OR</state>
        <postalCode>99123</postalCode>
        <country>US</country>
      </addr>
    </representedOrganization>
  </assignedEntity>
</performer>
```

Figure 15: documentationOf Example

```
<documentationOf>
  <serviceEvent classCode="PCPR">
    <!-- The effectiveTime reflects the provision of care summarized in the document.
    In this scenario, the provision of care summarized is the lifetime for the patient -->
    <effectiveTime>
      <low value="19750501" />
      <!-- The low value represents when the summarized provision of care began.
      In this scenario, the patient's date of birth -->
      <high value="20120915" />
      <!-- The high value represents when the summarized provision of care being ended.
      In this scenario, when chart summary was created -->
    </effectiveTime>
    <performer typeCode="PRF">
      <functionCode code="PCP"
                    displayName="Primary Care Provider"
                    codeSystem="2.16.840.1.113883.5.88"
                    codeSystemName="ParticipationFunction">
        <originalText>Primary Care Provider</originalText>
      </functionCode>
      <assignedEntity>
        <id extension="5555555555" root="2.16.840.1.113883.4.6" />
        <code code="207QA0505X" displayName="Adult Medicine"
              codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health Care Provider Taxonomy" />
        <addr>
          <streetAddressLine>1004 Healthcare Drive </streetAddressLine>
          <city>Portland</city>
          <state>OR</state>
          <postalCode>99123</postalCode>
          <country>US</country>
        </addr>
        <telecom use="WP" value="tel:+1(555)555-1004" />
        <assignedPerson>
          <name>
            <given>Patricia</given>
            <given qualifier="CL">Patty</given>
            <family>Primary</family>
            <suffix qualifier="AC">M.D.</suffix>
          </name>
        </assignedPerson>
        <representedOrganization>
          <id extension="219BX" root="1.1.1.1.1.1.1.1.2" />
          <name>The DoctorsTogether Physician Group</name>
          <telecom use="WP" value="tel: +(555)-555-5000" />
          <addr>
            <streetAddressLine>1004 Health Drive</streetAddressLine>
            <city>Portland</city>
            <state>OR</state>
            <postalCode>99123</postalCode>
            <country>US</country>
          </addr>
        </representedOrganization>
      </assignedEntity>
    </performer>
  </serviceEvent>
</documentationOf>
```

2.1.1.16 authorization

The authorization element represents information about the patient's consent.

The type of consent is conveyed in consent/code. Consents in the header have been finalized (consent/statusCode must equal Completed) and should be on file. This specification does not address how 'Privacy Consent' is represented, but does not preclude the inclusion of 'Privacy Consent'.

The authorization consent is used for referring to consents that are documented elsewhere in the EHR or medical record for a health condition and/or treatment that is described in the CDA document.

24. **MAY** contain zero or more [0..*] **authorization** (CONF:1098-16792) such that it
- a. **SHALL** contain exactly one [1..1] **consent** (CONF:1098-16793).
 - i. This consent **MAY** contain zero or more [0..*] **id** (CONF:1098-16794).
 - ii. This consent **MAY** contain zero or one [0..1] **code** (CONF:1098-16795).
Note: The type of consent (e.g., a consent to perform the related serviceEvent) is conveyed in consent/code.
 - iii. This consent **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-16797).
 1. This statusCode **SHALL** contain exactly one [1..1]
**@code="completed" Completed (CodeSystem: HL7ActClass
urn:oid:2.16.840.1.113883.5.6) (CONF:1098-16798).**

Figure 16: authorization Example

```
<authorization typeCode="AUTH">
  <consent classCode="CONS" moodCode="EVN">
    <id root="629deb70-5306-11df-9879-0800200c9a66" />
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" code="64293-4"
    displayName="Procedure consent" />
    <statusCode code="completed" />
  </consent>
</authorization>
```

2.1.1.17 componentOf

The encompassing encounter represents the setting of the clinical encounter during which the document act(s) or ServiceEvent(s) occurred.

In order to represent providers associated with a specific encounter, they are recorded within the encompassingEncounter as participants.

In a CCD, the encompassingEncounter may be used when documenting a specific encounter and its participants. All relevant encounters in a CCD may be listed in the encounters section.

25. **MAY** contain zero or one [0..1] **componentOf** (CONF:1098-9955).

- a. The componentOf, if present, **SHALL** contain exactly one [1..1] **encompassingEncounter** (CONF:1098-9956).
 - i. This encompassingEncounter **SHALL** contain at least one [1..*] **id** (CONF:1098-9959).
 - ii. This encompassingEncounter **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-9958).

Table 3: HL7 BasicConfidentialityKind

Value Set: HL7 BasicConfidentialityKind urn:oid:2.16.840.1.113883.1.11.16926 A value set of HL7 Code indication the level of confidentiality an act. Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
N	ConfidentialityCode	urn:oid:2.16.840.1.113883.5.25	normal
R	ConfidentialityCode	urn:oid:2.16.840.1.113883.5.25	restricted
V	ConfidentialityCode	urn:oid:2.16.840.1.113883.5.25	very restricted

Table 4: Language

Value Set: Language urn:oid:2.16.840.1.113883.1.11.11526			
A value set of codes defined by Internet RFC 4646 (replacing RFC 3066). Please see ISO 639 language code set maintained by Library of Congress for enumeration of language codes.			
Value Set Source: http://www.loc.gov/standards/iso639-2/php/code_list.php			
Code	Code System	Code System OID	Print Name
aa	Language	urn:oid:2.16.840.1.113883.6.121	Afar
ab	Language	urn:oid:2.16.840.1.113883.6.121	Abkhazian
ace	Language	urn:oid:2.16.840.1.113883.6.121	Achinese
ach	Language	urn:oid:2.16.840.1.113883.6.121	Acoli
ada	Language	urn:oid:2.16.840.1.113883.6.121	Adangme
ady	Language	urn:oid:2.16.840.1.113883.6.121	Adyghe; Adygei
ae	Language	urn:oid:2.16.840.1.113883.6.121	Avestan
af	Language	urn:oid:2.16.840.1.113883.6.121	Afrikaans
afa	Language	urn:oid:2.16.840.1.113883.6.121	Afro-Asiatic (Other)
afh	Language	urn:oid:2.16.840.1.113883.6.121	Afrihili
...			

Table 5: Telecom Use (US Realm Header)

Value Set: Telecom Use (US Realm Header) urn:oid:2.16.840.1.113883.11.20.9.20			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
HP	AddressUse	urn:oid:2.16.840.1.113883.5.1119	Primary home
HV	AddressUse	urn:oid:2.16.840.1.113883.5.1119	Vacation home
WP	AddressUse	urn:oid:2.16.840.1.113883.5.1119	Work place
MC	AddressUse	urn:oid:2.16.840.1.113883.5.1119	Mobile contact

Table 6: Administrative Gender (HL7 V3)

Value Set: Administrative Gender (HL7 V3) urn:oid:2.16.840.1.113883.1.11.1 Administrative Gender based upon HL7 V3 vocabulary. This value set contains only male, female and undifferentiated concepts. Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
F	AdministrativeGender	urn:oid:2.16.840.1.113883.5.1	Female
M	AdministrativeGender	urn:oid:2.16.840.1.113883.5.1	Male
UN	AdministrativeGender	urn:oid:2.16.840.1.113883.5.1	Undifferentiated

Table 7: Marital Status

Value Set: Marital Status urn:oid:2.16.840.1.113883.1.11.12212 Marital Status is the domestic partnership status of a person. Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
A	MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Annulled
D	MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Divorced
T	MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Domestic partner
I	MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Interlocutory
L	MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Legally Separated
M	MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Married
S	MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Never Married
P	MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Polygamous
W	MaritalStatus	urn:oid:2.16.840.1.113883.5.2	Widowed

Table 8: Religious Affiliation

Value Set: Religious Affiliation urn:oid:2.16.840.1.113883.1.11.19185 A value set of codes that reflect spiritual faith affiliation. Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
1001	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Adventist
1002	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	African Religions
1003	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Afro-Caribbean Religions
1004	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Agnosticism
1005	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Anglican
1006	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Animism
1007	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Atheism
1008	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Babi & Baha'I faiths
1009	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Baptist
1010	ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076	Bon
...			

Table 9: Race Category Excluding Nulls

Value Set: Race Category Excluding Nulls urn:oid:2.16.840.1.113883.3.2074.1.1.3 Value Set Source: https://vsac.nlm.nih.gov/			
Code	Code System	Code System OID	Print Name
1002-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	American Indian or Alaska Native
2028-9	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Asian
2054-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Black or African American
2076-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Native Hawaiian or Other Pacific Islander
2106-3	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	White

Table 10: Ethnicity

Value Set: Ethnicity urn:oid:2.16.840.1.114222.4.11.837			
Code System: Race & Ethnicity - CDC 2.16.840.1.113883.6.238			
Value Set Source: https://vsac.nlm.nih.gov/			
Code	Code System	Code System OID	Print Name
2135-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Hispanic or Latino
2186-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Not Hispanic or Latino

Table 11: Personal And Legal Relationship Role Type

Value Set: Personal And Legal Relationship Role Type urn:oid:2.16.840.1.113883.11.20.12.1			
A personal or legal relationship records the role of a person in relation to another person, or a person to himself or herself. This value set is to be used when recording relationships based on personal or family ties or through legal assignment of responsibility.			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
SELF	RoleCode	urn:oid:2.16.840.1.113883.5.111	self
MTH	RoleCode	urn:oid:2.16.840.1.113883.5.111	mother
FTH	RoleCode	urn:oid:2.16.840.1.113883.5.111	father
DAU	RoleCode	urn:oid:2.16.840.1.113883.5.111	natural daughter
SON	RoleCode	urn:oid:2.16.840.1.113883.5.111	natural son
DAUINLAW	RoleCode	urn:oid:2.16.840.1.113883.5.111	daughter in-law
SONINLAW	RoleCode	urn:oid:2.16.840.1.113883.5.111	son in-law
GUARD	RoleCode	urn:oid:2.16.840.1.113883.5.111	guardian
HPOWATT	RoleCode	urn:oid:2.16.840.1.113883.5.111	healthcare power of attorney
...			

Table 12: Country

Value Set: Country urn:oid:2.16.840.1.113883.3.88.12.80.63 This identifies the codes for the representation of names of countries, territories and areas of geographical interest. Value Set Source: http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm			
Code	Code System	Code System OID	Print Name
AW	Country	urn:oid:2.16.840.1.113883.3.88.12.80.63	Aruba
IL	Country	urn:oid:2.16.840.1.113883.3.88.12.80.63	Israel
...			

Table 13: PostalCode

Value Set: PostalCode urn:oid:2.16.840.1.113883.3.88.12.80.2 A value set of postal (ZIP) Code of an address in the United States Value Set Source: http://ushik.ahrq.gov/ViewItemDetails?system=mdr&itemKey=86671000			
Code	Code System	Code System OID	Print Name
19009	USPostalCodes	urn:oid:2.16.840.1.113883.6.231	Bryn Athyn
92869-1736	USPostalCodes	urn:oid:2.16.840.1.113883.6.231	Orange, CA
32830-8413	USPostalCodes	urn:oid:2.16.840.1.113883.6.231	Lake Buena Vista, FL
...			

Table 14: PatientLanguage

Value Set: PatientLanguage urn:oid:2.16.840.1.113883.11.20.9.64			
This value set contains codes for the representation of language names as defined by the Library of Congress, the ISO 639-2 registration authority. This value set contains a subset of the ISO 639-2 alpha-3 code set, limited to those that have a corresponding ISO 639-1 alpha-2 code as required for representing a patient's language under Meaningful Use Stage 2.			
Value Set Source: http://www.loc.gov/standards/iso639-2/php/code_list.php			
Code	Code System	Code System OID	Print Name
aar	Language	urn:oid:2.16.840.1.113883.6.121	Afar
abk	Language	urn:oid:2.16.840.1.113883.6.121	Abkhazian
afr	Language	urn:oid:2.16.840.1.113883.6.121	Afrikaans
aka	Language	urn:oid:2.16.840.1.113883.6.121	Akan
sqi	Language	urn:oid:2.16.840.1.113883.6.121	Albanian
amh	Language	urn:oid:2.16.840.1.113883.6.121	Amharic
ara	Language	urn:oid:2.16.840.1.113883.6.121	Arabic
arg	Language	urn:oid:2.16.840.1.113883.6.121	Aragonese
hye	Language	urn:oid:2.16.840.1.113883.6.121	Armenian
asm	Language	urn:oid:2.16.840.1.113883.6.121	Assamese
...			

Table 15: LanguageAbilityMode

Value Set: LanguageAbilityMode urn:oid:2.16.840.1.113883.1.11.12249 This identifies the language ability of the individual. A value representing the method of expression of the language. Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
ESGN	LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Expressed signed
ESP	LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Expressed spoken
EWR	LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Expressed written
RSGN	LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Received signed
RSP	LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Received spoken
RWR	LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60	Received written

Table 16: LanguageAbilityProficiency

Value Set: LanguageAbilityProficiency urn:oid:2.16.840.1.113883.1.11.12199 Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
E	LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61	Excellent
F	LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61	Fair
G	LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61	Good
P	LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61	Poor

Table 17: Race

Value Set: Race urn:oid:2.16.840.1.113883.1.11.14914			
Concepts in the race value set include the 5 minimum categories for race specified by OMB along with a more detailed set of race categories used by the Bureau of Census.			
Value Set Source: https://vsac.nlm.nih.gov/			
Code	Code System	Code System OID	Print Name
1002-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	American Indian or Alaska Native
2028-9	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Asian
2054-5	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Black or African American
2076-8	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Native Hawaiian or Other Pacific Islander
2106-3	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	White
1006-6	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Abenaki
1579-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Absentee Shawnee
1490-2	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Acoma
2126-1	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Afghanistani
1740-0	Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238	Ahtna
...			

Table 18: Healthcare Provider Taxonomy (HIPAA)

<p>Value Set: Healthcare Provider Taxonomy (HIPAA) urn:oid:2.16.840.1.114222.4.11.1066</p> <p>The Health Care Provider Taxonomy value set is a collection of unique alphanumeric codes, ten characters in length. The code set is structured into three distinct Levels including Provider Type, Classification, and Area of Specialization. The Health Care Provider Taxonomy code set allows a single provider (individual, group, or institution) to identify their specialty category. Providers may have one or more than one value associated to them. When determining what value or values to associate with a provider, the user needs to review the requirements of the trading partner with which the value(s) are being used.</p> <p>Value Set Source: http://www.nucc.org/index.php?option=com_content&view=article&id=14&Itemid=125</p>			
Code	Code System	Code System OID	Print Name
171100000X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Acupuncturist
363LA2100X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Nurse Practitioner - Acute Care
364SA2100X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Clinical Nurse Specialist - Acute Care
101YA0400X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Counselor - Addiction (Substance Use Disorder)
103TA0400X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Psychologist - Addiction (Substance Use Disorder)
163WA0400X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Registered Nurse - Addiction (Substance Use Disorder)
207LA0401X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Anesthesiology - Addiction Medicine
207QA0401X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Family Medicine - Addiction Medicine
207RA0401X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Internal Medicine - Addiction Medicine
2084A0401X	Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.11388 3.6.101	Psychiatry & Neurology - Addiction Medicine
...			

Table 19: INDRoleclassCodes

Value Set: INDRoleclassCodes urn:oid:2.16.840.1.113883.11.20.9.33			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
PRS	RoleClass	urn:oid:2.16.840.1.113883.5.110	personal relationship
NOK	RoleClass	urn:oid:2.16.840.1.113883.5.110	next of kin
CAREGIVER	RoleClass	urn:oid:2.16.840.1.113883.5.110	caregiver
AGNT	RoleClass	urn:oid:2.16.840.1.113883.5.110	agent
GUAR	RoleClass	urn:oid:2.16.840.1.113883.5.110	guarantor
ECON	RoleClass	urn:oid:2.16.840.1.113883.5.110	emergency contact

Table 20: x_ServiceEventPerformer

Value Set: x_ServiceEventPerformer urn:oid:2.16.840.1.113883.1.11.19601			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
PRF	HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90	performer
SPRF	HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90	secondary performer
PPRF	HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90	primary performer

Table 21: ParticipationFunction

Value Set: ParticipationFunction urn:oid:2.16.840.1.113883.1.11.10267 This HL7-defined value set can be used to specify the exact function an actor had in a service in all necessary detail. Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/inrastructure/vocabulary/vocabulary.htm			
Code	Code System	Code System OID	Print Name
SNRS	participationFunction	urn:oid:2.16.840.1.113883.5.88	Scrub nurse
SASST	participationFunction	urn:oid:2.16.840.1.113883.5.88	Second assistant surgeon
...			

2.1.2 QRDA Category I Framework (V2)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.1.1:2014-12-01 (open)]

Table 22: QRDA Category I Framework (V2) Contexts

Contained By:	Contains:
	Measure Section Patient Data Section Reporting Parameters Section

This template describes constraints that apply to the Quality Reporting Document Architecture (QRDA) Document Category I report framework. Document-level templates describe the purpose and rules for constructing a conforming CDA document. Document templates include constraints on the CDA header and identify contained section-level templates.

The document-level template contains the following information:

- Description and explanatory narrative
- Template metadata (e.g., templateId, etc.)
- Header constraints including a reference to the US Realm Clinical Document Header template and additional constraints specific to each document type
- Required section-level templates

Table 23: QRDA Category I Framework (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.1.1:2014-12-01)					
templateId	1..1	SHALL		1140-12910	
@root	1..1	SHALL		1140-14613	2.16.840.1.113883.10.20.24.1.1
@extension	1..1	SHALL		1140-27005	2014-12-01
code	1..1	SHALL		1140-12911	
@code	1..1	SHALL		1140-28137	55182-0
@codeSystem	1..1	SHALL		1140-28138	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
title	1..1	SHALL		1140-12912	
recordTarget	1..1	SHALL		1140-12913	
patientRole	1..1	SHALL		1140-28387	
patient	0..1	MAY		1140-28388	
sdtc:ethnicGroupCode	0..*	MAY		1140-28389	urn:oid:2.16.840.1.114222.4.11.877 (Detailed Ethnicity)
custodian	1..1	SHALL		1140-12914	
assignedCustodian	1..1	SHALL		1140-12915	
representedCustodianOrganization	1..1	SHALL		1140-12916	
legalAuthenticator	1..1	SHALL		1140-13817	
component	1..1	SHALL		1140-12918	
structuredBody	1..1	SHALL		1140-12919	
component	1..1	SHALL		1140-12920	
section	1..1	SHALL		1140-17078	Measure Section (identifier: urn:oid:2.16.840.1.113883.10.20.24.2.2)
component	1..1	SHALL		1140-12923	
section	1..1	SHALL		1140-17079	Reporting Parameters Section (identifier:)

					urn:oid:2.16.840.1.113883.10.20.17.2.1
component	1..1	SHALL		1140-12924	
section	1..1	SHALL		1140-17080	Patient Data Section (identifier: urn:oid:2.16.840.1.113883.10.20.17.2.4

2.1.3 Properties

1. Conforms to [US Realm Header \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2014-06-09).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12910) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.1.1" (CONF:1140-14613).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27005).
3. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12911).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="55182-0" Quality Measure Report (CONF:1140-28137).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28138).
4. **SHALL** contain exactly one [1..1] **title** (CONF:1140-12912).

2.1.3.1 recordTarget

5. **SHALL** contain exactly one [1..1] **recordTarget** (CONF:1140-12913).
 - a. This recordTarget **SHALL** contain exactly one [1..1] **patientRole** (CONF:1140-28387).
 - i. This patientRole **MAY** contain zero or one [0..1] **patient** (CONF:1140-28388).
 1. The patient, if present, **MAY** contain zero or more [0..*] **sdctc:ethnicGroupCode**, which **SHALL** be selected from ValueSet [Detailed Ethnicity](#) urn:oid:2.16.840.1.114222.4.11.877 **DYNAMIC** (CONF:1140-28389).

2.1.3.2 custodian

6. **SHALL** contain exactly one [1..1] **custodian** (CONF:1140-12914).
 - a. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:1140-12915).
 - i. This assignedCustodian **SHALL** contain exactly one [1..1] **representedCustodianOrganization** (CONF:1140-12916).
 1. This assignedCustodian **SHALL** represent the organization that owns and reports the data (CONF:1140-12917).

2.1.3.3 legalAuthenticator

7. **SHALL** contain exactly one [1..1] **legalAuthenticator** (CONF:1140-13817).

2.1.3.4 component

8. **SHALL** contain exactly one [1..1] **component** (CONF:1140-12918).
- This component **SHALL** contain exactly one [1..1] **structuredBody** (CONF:1140-12919).
 - This structuredBody **SHALL** contain exactly one [1..1] **component** (CONF:1140-12920) such that it
 - SHALL** contain exactly one [1..1] **Measure Section** (identifier: urn:oid:2.16.840.1.113883.10.20.24.2.2) (CONF:1140-17078).
 - This structuredBody **SHALL** contain exactly one [1..1] **component** (CONF:1140-12923) such that it
 - SHALL** contain exactly one [1..1] **Reporting Parameters Section** (identifier: urn:oid:2.16.840.1.113883.10.20.17.2.1) (CONF:1140-17079).
 - This structuredBody **SHALL** contain exactly one [1..1] **component** (CONF:1140-12924) such that it
 - SHALL** contain exactly one [1..1] **Patient Data Section** (identifier: urn:oid:2.16.840.1.113883.10.20.17.2.4) (CONF:1140-17080).

Table 24: Detailed Ethnicity

Value Set: Detailed Ethnicity urn:oid:2.16.840.1.114222.4.11.877			
List of detailed ethnicity codes reported on a limited basis			
Value Set Source: http://phinovads.cdc.gov/vads/ViewValueSet.action?id=34D34BBC-617F-DD11-B38D-00188B398520#			
Code	Code System	Code System OID	Print Name
2138-6	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Andalusian
2166-7	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Argentinean
2139-4	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Asturian
2142-8	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Belearic Islander
2167-5	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Bolivian
2163-4	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Canal Zone
2145-1	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Canarian
2140-2	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Castillian
2141-0	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Catalonian
2155-0	Race & Ethnicity - CDC	2.16.840.1.113883.6.238	Central American
...			

2.1.4 QDM-Based QRDA (V2)

[ClinicalDocument: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.1.2:2014-12-01 (open)]

Table 25: QDM-Based QRDA (V2) Contexts

Contained By:	Contains:
	Measure Section QDM Patient Data Section QDM (V2) Reporting Parameters Section

A QDM-Based QRDA is a QRDA where the patient data entry-level templates are derived from the National Quality Forum (NQF) Quality Data Model (QDM). A QDM-Based QRDA defines explicitly how a Health Quality Measures Format (HQMF) eMeasure is referenced. This template describes an optional documentationOf/serviceEvent where multiple provider and organization ids can be represented

Table 26: QDM-Based QRDA (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
ClinicalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.1.2:2014-12-01)					
templateId	1..1	SHALL		1140-12972	
@root	1..1	SHALL		1140-26943	2.16.840.1.113883.10.20.24.1.2
@extension	1..1	SHALL		1140-26944	2014-12-01
recordTarget	1..1	SHALL		1140-16598	
patientRole	1..1	SHALL		1140-16856	
id	0..1	SHOULD		1140-16857	
@root	1..1	SHALL		1140-16858	2.16.840.1.113883.4.572
patient	1..1	SHALL		1140-27570	
administrativeGenderCode	1..1	SHALL		1140-27572	
birthTime	1..1	SHALL		1140-27571	
raceCode	1..1	SHALL		1140-27573	
ethnicGroupCode	1..1	SHALL		1140-27574	
custodian	1..1	SHALL		1140-16600	
assignedCustodian	1..1	SHALL		1140-28239	
representedCustodianOrganization	1..1	SHALL		1140-28240	
id	0..1	SHOULD		1140-28241	
@root	1..1	SHALL		1140-28244	2.16.840.1.113883.4.336
@extension	1..1	SHALL		1140-28245	
id	0..1	SHOULD		1140-28242	
@root	1..1	SHALL		1140-28246	2.16.840.1.113883.4.2
@extension	1..1	SHALL		1140-28247	

id	0..1	SHOULD		1140-28243	
@root	1..1	SHALL		1140-28248	1.3.6.1.4.1.33895
@extension	1..1	SHALL		1140-28249	
informationRecipient	0..*	MAY		1140-16703	
intendedRecipient	1..1	SHALL		1140-16704	
id	1..*	SHALL		1140-16705	
documentationOf	0..1	MAY		1140-16579	
serviceEvent	1..1	SHALL		1140-16580	
@classCode	1..1	SHALL		1140-16581	PCPR
performer	1..*	SHALL		1140-16583	
@typeCode	1..1	SHALL		1140-16584	PRF
time	0..1	MAY		1140-16585	
assignedEntity	1..1	SHALL		1140-16586	
id	0..1	SHOULD		1140-16587	
@root	1..1	SHALL		1140-16588	2.16.840.1.113883.4.6
representedOrganization	1..1	SHALL		1140-16591	
id	0..1	SHOULD		1140-16592	
@root	1..1	SHALL		1140-16593	2.16.840.1.113883.4.2
id	0..1	SHOULD		1140-16595	
@root	1..1	SHALL		1140-16596	2.16.840.1.113883.4.336
@extension	1..1	SHALL		1140-16597	
component	1..1	SHALL		1140-12973	
structuredBody	1..1	SHALL		1140-17081	
component	1..1	SHALL		1140-	

				17082	
section	1..1	SHALL		1140-17083	Measure Section QDM (identifier: urn:oid:2.16.840.1.113883.10.20.24.2.3)
component	1..1	SHALL		1140-17090	
section	1..1	SHALL		1140-17092	Reporting Parameters Section (identifier: urn:oid:2.16.840.1.113883.10.20.17.2.1)
component	1..1	SHALL		1140-17091	
section	1..1	SHALL		1140-17093	Patient Data Section QDM (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.2.1:2014-12-01)

2.1.5 Properties

1. Conforms to [QRDA Category I Framework \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.1.1:2014-12-01).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12972) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.1.2" (CONF:1140-26943).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-26944).

2.1.5.1 recordTarget

3. **SHALL** contain exactly one [1..1] **recordTarget** (CONF:1140-16598).
 - a. This recordTarget **SHALL** contain exactly one [1..1] **patientRole** (CONF:1140-16856).
 - i. This patientRole **SHOULD** contain zero or one [0..1] **id** (CONF:1140-16857) such that it
 1. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.4.572" Medicare HIC number (CONF:1140-16858).
 - ii. This patientRole **SHALL** contain exactly one [1..1] **patient** (CONF:1140-27570).
 1. This patient **SHALL** contain exactly one [1..1] **administrativeGenderCode** (CONF:1140-27572).
Note: QDM Datatype: Patient Characteristic, Sex
 2. This patient **SHALL** contain exactly one [1..1] **birthTime** (CONF:1140-27571).
Note: QDM Datatype: Patient Characteristic, Birth Date
 3. This patient **SHALL** contain exactly one [1..1] **raceCode** (CONF:1140-27573).
Note: QDM Datatype: Patient Characteristic, Race

4. This patient **SHALL** contain exactly one [1..1] **ethnicGroupCode** (CONF:1140-27574).

Note: QDM Datatype: Patient Characteristic, Ethnicity

- b. Coded fields **MAY** contain the @sdtc:valueSet extension to reference the value set from which the supplied code was drawn. (See Appendix for more details on the use of this extension) (CONF:1140-16859).

2.1.5.2 custodian

4. **SHALL** contain exactly one [1..1] **custodian** (CONF:1140-16600).
 - a. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:1140-28239).
 - i. This assignedCustodian **SHALL** contain exactly one [1..1] **representedCustodianOrganization** (CONF:1140-28240).
 1. This representedCustodianOrganization **SHOULD** contain zero or one [0..1] **id** (CONF:1140-28241) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.4.336" CMS Certification Number (CONF:1140-28244).
 - b. **SHALL** contain exactly one [1..1] **@extension** (CONF:1140-28245).
 2. This representedCustodianOrganization **SHOULD** contain zero or one [0..1] **id** (CONF:1140-28242) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.4.2" Tax ID Number (CONF:1140-28246).
 - b. **SHALL** contain exactly one [1..1] **@extension** (CONF:1140-28247).
 3. This representedCustodianOrganization **SHOULD** contain zero or one [0..1] **id** (CONF:1140-28243) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="1.3.6.1.4.1.33895" The Joint Commission's Health Care Organization (HCO) Identification Number (CONF:1140-28248).
 - b. **SHALL** contain exactly one [1..1] **@extension** (CONF:1140-28249).

2.1.5.3 informationRecipient

5. **MAY** contain zero or more [0..*] **informationRecipient** (CONF:1140-16703).
 - a. The informationRecipient, if present, **SHALL** contain exactly one [1..1] **intendedRecipient** (CONF:1140-16704).
 - i. This intendedRecipient **SHALL** contain at least one [1..*] **id** (CONF:1140-16705).
 1. IntendedRecipient ID can be used by the receiver to ensure they are processing a file that was intended to be sent to them (CONF:1140-16706).

2.1.5.4 documentationOf

6. **MAY** contain zero or one [0..1] **documentationOf** (CONF:1140-16579) such that it
 - a. **SHALL** contain exactly one [1..1] **serviceEvent** (CONF:1140-16580).
 - i. This serviceEvent **SHALL** contain exactly one [1..1] **@classCode="PCPR"** Care Provision (CONF:1140-16581).
 - ii. This serviceEvent **SHALL** contain at least one [1..*] **performer** (CONF:1140-16583).
 1. Such performers **SHALL** contain exactly one [1..1] **@typeCode="PRF"** Performer (CONF:1140-16584).
 2. Such performers **MAY** contain zero or one [0..1] **time** (CONF:1140-16585).
 3. Such performers **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1140-16586).

This assignedEntity id/@root coupled with the id/@extension represents the individual provider's National Provider Identification number (NPI).

- a. This assignedEntity **SHOULD** contain zero or one [0..1] **id** (CONF:1140-16587) such that it
 - i. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.4.6"** National Provider ID (CONF:1140-16588).
- b. This assignedEntity **SHALL** contain exactly one [1..1] **representedOrganization** (CONF:1140-16591).

This representedOrganization id/@root coupled with the id/@extension represents the organization's Tax Identification Number (TIN).

- i. This representedOrganization **SHOULD** contain zero or one [0..1] **id** (CONF:1140-16592) such that it
 1. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.4.2"** Tax ID Number (CONF:1140-16593).

This representedOrganization id/@root coupled with the id/@extension represents the organization's Facility CMS Certification Number (CCN).

- ii. This representedOrganization **SHOULD** contain zero or one [0..1] **id** (CONF:1140-16595) such that it
 1. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.4.336"** Facility CMS Certification Number (CONF:1140-16596).
 2. **SHALL** contain exactly one [1..1] **@extension** (CONF:1140-16597).

Figure 17: documentationOf/serviceEvent example with identifiers

```
<documentationOf typeCode="DOC">
  <serviceEvent classCode="PCPR"> <!-- care provision -->
    <effectiveTime>
      <low value="20100601"/>
      <high value="20100915"/>
    </effectiveTime>
    <!-- You can include multiple performers, each with an NPI, TIN, CCN. -->
    <performer typeCode="PRF">
      <time>
        <low value="20020716"/>
        <high value="20070915"/>
      </time>
      <assignedEntity>
        <!-- This is the provider NPI -->
        <id root="2.16.840.1.113883.4.6" extension="111111111" />
        <representedOrganization>
          <!-- This is the organization TIN -->
          <id root="2.16.840.1.113883.4.2" extension="1234567" />
          <!-- This is the organization CCN -->
          <id root="2.16.840.1.113883.4.336" extension="54321" />
        </representedOrganization>
      </assignedEntity>
    </performer>
  </serviceEvent>
</documentationOf>
```

2.1.5.5 component

7. **SHALL** contain exactly one [1..1] **component** (CONF:1140-12973) such that it
 - a. **SHALL** contain exactly one [1..1] **structuredBody** (CONF:1140-17081).
 - i. This structuredBody **SHALL** contain exactly one [1..1] **component** (CONF:1140-17082).
 1. This component **SHALL** contain exactly one [1..1] [Measure Section QDM](#) (identifier: urn:oid:2.16.840.1.113883.10.20.24.2.3) (CONF:1140-17083).
 - ii. This structuredBody **SHALL** contain exactly one [1..1] **component** (CONF:1140-17090).
 1. This component **SHALL** contain exactly one [1..1] [Reporting Parameters Section](#) (identifier: urn:oid:2.16.840.1.113883.10.20.17.2.1) (CONF:1140-17092).
 - iii. This structuredBody **SHALL** contain exactly one [1..1] **component** (CONF:1140-17091).
 1. This component **SHALL** contain exactly one [1..1] [Patient Data Section QDM \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.2.1:2014-12-01) (CONF:1140-17093).

3 SECTION-LEVEL TEMPLATES

3.1 Measure Section

[section: identifier urn:oid:2.16.840.1.113883.10.20.24.2.2 (open)]

Table 27: Measure Section Contexts

Contained By:	Contains:
QRDA Category I Framework (V2) (required)	Measure Reference

This section contains information about the measure or measures being reported. This section references the measure through reference to an externalDocument. The externalDocument/ids and version numbers are used to reference the measure. The measure section must contain a reference to at least one externalDocument id of all the measures being reported in the QRDA instance.

Table 28: Measure Section Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:oid:2.16.840.1.113883.10.20.24.2.2)					
templateId	1..1	SHALL		67-12801	
@root	1..1	SHALL		67-12802	2.16.840.1.113883.10.20.24.2.2
code	1..1	SHALL		67-12798	
@code	1..1	SHALL		67-19230	55186-1
@codeSystem	1..1	SHALL		67-27012	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
title	1..1	SHALL		67-12799	Measure Section
text	1..1	SHALL		67-12800	
entry	1..*	SHALL		67-13003	
organizer	1..1	SHALL		67-16677	Measure Reference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.98)

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:67-12801) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.2.2" (CONF:67-12802).
2. **SHALL** contain exactly one [1..1] **code** (CONF:67-12798).

- a. This code **SHALL** contain exactly one [1..1] **@code**="55186-1" Measure Section (CONF:67-19230).
- b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:67-27012).
3. **SHALL** contain exactly one [1..1] **title**="Measure Section" (CONF:67-12799).
4. **SHALL** contain exactly one [1..1] **text** (CONF:67-12800).
5. **SHALL** contain at least one [1..*] **entry** (CONF:67-13003).
 - a. Such entries **SHALL** contain exactly one [1..1] **Measure Reference** (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.98) (CONF:67-16677).

3.1.1 Measure Section QDM

[section: identifier urn:oid:2.16.840.1.113883.10.20.24.2.3 (open)]

Table 29: Measure Section QDM Contexts

Contained By:	Contains:
QDM-Based QRDA (V2) (required)	eMeasure Reference QDM

This section contains information about the eMeasure or eMeasures being reported. It must contain entries with the identifiers of all the eMeasures so that corresponding QRDA QDM data element entry templates to be instantiated in the Patient Data Section are identified. Each eMeasure for which QRDA QDM data elements are being sent must reference the eMeasures act/id. Other eMeasure identifiers that could be referenced are the eMeasure Identifier (Measure Authoring Tool), eMeasure Version Number, eMeasure Title and the NQF Number.Number, eMeasure Title and the NQF Number.

Table 30: Measure Section QDM Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:oid:2.16.840.1.113883.10.20.24.2.3)					
templateId	1..1	SHALL		67-12803	
@root	1..1	SHALL		67-12804	2.16.840.1.113883.10.20.24.2.3
entry	1..*	SHALL		67-12978	
organizer	1..1	SHALL		67-13193	eMeasure Reference QDM (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.97)

1. Conforms to [Measure Section](#) template (identifier: urn:oid:2.16.840.1.113883.10.20.24.2.2).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:67-12803) such that it

- a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.2.3" (CONF:67-12804).
3. **SHALL** contain at least one [1..*] **entry** (CONF:67-12978).
 - a. Such entries **SHALL** contain exactly one [1..1] [eMeasure Reference QDM](#) (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.97) (CONF:67-13193).

Figure 18: Measure Section QDM Example

```
<section>
  <!-- This is the templateId for Measure Section -->
  <templateId root="2.16.840.1.113883.10.20.24.2.2"/>
  <!-- This is the templateId for Measure Section QDM -->
  <templateId root="2.16.840.1.113883.10.20.24.2.3"/>
  <!-- This is the LOINC code for "Measure document". This stays the same for
    all measure section required by QRDA standard -->
  <code code="55186-1" codeSystem="2.16.840.1.113883.6.1"/>
  <title>Measure Section</title>
  <text>...</text>
  <!-- 1..* Organizers, each containing a reference to an eMeasure -->
  <entry>
    <organizer classCde="CLUSTER" moodCode="EVN">
      <!-- This is the templateId for Measure Reference -->
      <templateId root="2.16.840.1.113883.10.20.24.3.98"/>
      <!-- This is the templateId for eMeasure Reference QDM -->
      <templateId root="2.16.840.1.113883.10.20.24.3.97"/>
      ...
    </organizer>
  </entry>
</section>
```

3.2 Patient Data Section

[section: identifier urn:oid:2.16.840.1.113883.10.20.17.2.4 (open)]

Table 31: Patient Data Section Contexts

Contained By:	Contains:
QRDA Category I Framework (V2) (required)	

The Patient Data Section contains clinically significant patient data and should contain patient data elements as defined by particular measure(s). At least one structured entry is required, although the QRDA Framework does not constrain what those entries should be. Data elements in a QRDA framework instance should be communicated with entry-level templates from the Implementation Guide for CDA Release 2.0 Consolidated CDA Templates IG (US Realm) published December 2011 where possible. In many cases these templates will require further constraint to convey the exact data elements required by a measure or set of measures. Data elements should always be sent with a date/time stamp.

For short-term incremental implementation needs, a valid QRDA Framework Patient Data Section could send data elements using clinical statement templates from an earlier version of CCD, C32 or other HL7 implementation guides.

Table 32: Patient Data Section Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:oid:2.16.840.1.113883.10.20.17.2.4)					
templateId	1..1	SHALL		67-12794	
@root	1..1	SHALL		67-12795	2.16.840.1.113883.10.20.17.2.4
code	1..1	SHALL		67-3865	
@code	1..1	SHALL		67-26548	55188-7
@codeSystem	1..1	SHALL		67-27013	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
title	1..1	SHALL		67-3866	Patient Data
text	1..1	SHALL		67-3867	
entry	1..*	SHALL		67-14567	

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:67-12794) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.17.2.4" (CONF:67-12795).
2. **SHALL** contain exactly one [1..1] **code** (CONF:67-3865).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="55188-7" (CONF:67-26548).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:67-27013).
3. **SHALL** contain exactly one [1..1] **title**="Patient Data" (CONF:67-3866).
4. **SHALL** contain exactly one [1..1] **text** (CONF:67-3867).
5. **SHALL** contain at least one [1..*] **entry** (CONF:67-14567).

3.2.1 Patient Data Section QDM (V2)

[section: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.2.1:2014-12-01
(open)]

Table 33: Patient Data Section QDM (V2) Contexts

Contained By:	Contains:
QDM-Based QRDA (V2) (required)	Care Goal (V2) Communication from Patient to Provider (V2) Communication from Provider to Patient (V2) Communication from Provider to Provider (V2) Device Adverse Event (V2) Device Allergy (V2) Device Applied (V2) Device Intolerance (V2) Device Order (V2) Device Recommended (V2) Diagnosis Active Concern Act Diagnosis Family History (V2) Diagnosis Inactive Concern Act Diagnosis Resolved Concern Act Diagnostic Study Adverse Event (V2) Diagnostic Study Intolerance (V2) Diagnostic Study Order (V2) Diagnostic Study Performed (V2) Diagnostic Study Recommended (V2) Discharge Medication - Active Medication (V2) Encounter Active (V2) Encounter Order (V2) Encounter Performed (V2) Encounter Recommended (V2) Functional Status Order (V2) Functional Status Performed (V2) Functional Status Recommended (V2) Intervention Adverse Event (V2) Intervention Intolerance (V2) Intervention Order (V2) Intervention Performed (V2) Intervention Recommended (V2) Laboratory Test Adverse Event (V2) Laboratory Test Intolerance (V2) Laboratory Test Order (V2) Laboratory Test Performed (V2) Laboratory Test Recommended (V2) Medication Active (V2) Medication Administered (V2) Medication Adverse Effect (V2) Medication Allergy (V2)

Contained By:	Contains:
	Medication Dispensed (V2) Medication Intolerance (V2) Medication Order (V2) Patient Care Experience (V2) Patient Characteristic Clinical Trial Participant (V2) Patient Characteristic Expired (V2) Patient Characteristic Observation Assertion (V2) Patient Characteristic Payer Physical Exam Order (V2) Physical Exam Performed (V2) Physical Exam Recommended (V2) Procedure Adverse Event (V2) Procedure Intolerance (V2) Procedure Order (V2) Procedure Performed (V2) Procedure Recommended (V2) Provider Care Experience (V2) Provider Characteristic Observation Assertion Risk Category Assessment (V2) Substance Recommended (V2) Symptom Active Concern Act Symptom Assessed Concern Act Symptom Inactive Concern Act Symptom Resolved Concern Act Transfer From (V2) Transfer To (V2)

The Patient Data Section QDM (V2) contains entries that conform to the QDM approach to QRDA. In contrast to a QRDA Framework Patient Data Section that requires but does not specify the structured entries, the Patient Data Section QDM contained entry templates have specific requirements to align the quality measure data element type with its corresponding NQF QDM HQMF pattern, its referenced value set and potential QDM attributes. Contained entries must reference the corresponding eMeasure value set via the sdtc:valueSet attribute. All entries must also have time element. See Quality Data Model-Based QRDA IG.

Table 34: Patient Data Section QDM (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.2.1:2014-12-01)					
templateId	1..1	SHALL		1140-12796	
@root	1..1	SHALL		1140-12797	2.16.840.1.113883.10.20.24.2.1
entry	0..*	MAY		1140-12871	
@typeCode	1..1	SHALL		1140-16601	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-27378	Communication from Patient to Provider (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.2:2014-12-01)
entry	0..*	MAY		1140-12875	
@typeCode	1..1	SHALL		1140-16602	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13135	Device Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.5:2014-12-01)
entry	0..*	MAY		1140-12902	
@typeCode	1..1	SHALL		1140-16603	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13136	Device Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.8:2014-12-01)
entry	0..*	MAY		1140-12904	
@typeCode	1..1	SHALL		1140-16604	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
supply	1..1	SHALL		1140-27092	Device Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.9:2014-12-01)
entry	0..*	MAY		1140-12906	
@typeCode	1..1	SHALL		1140-16605	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
supply	1..1	SHALL		1140-	Device Recommended (V2) (identifier:

				27095	urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.10:2014-12-01
entry	0..*	MAY		1140-12908	
@typeCode	1..1	SHALL		1140-16606	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-28152	Diagnosis Active Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.121:2014-12-01)
entry	0..*	MAY		1140-12976	
@typeCode	1..1	SHALL		1140-16607	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-28194	Diagnosis Inactive Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.123:2014-12-01)
entry	0..*	MAY		1140-13015	
@typeCode	1..1	SHALL		1140-16608	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-28195	Diagnosis Resolved Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.125:2014-12-01)
entry	0..*	MAY		1140-13017	
@typeCode	1..1	SHALL		1140-16609	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13142	Diagnostic Study Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.15:2014-12-01)
entry	0..*	MAY		1140-13019	
@typeCode	1..1	SHALL		1140-16610	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13143	Diagnostic Study Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.16:2014-12-01)
entry	0..*	MAY		1140-13021	
@typeCode	1..1	SHALL		1140-	urn:oid:2.16.840.1.113883.5.100

				16611	2 (HL7ActRelationshipType) = DRIV
encounter	1..1	SHALL		1140-27007	Encounter Active (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.21:2014-12-01)
entry	0..*	MAY		1140-13034	
@typeCode	1..1	SHALL		1140-16612	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
encounter	1..1	SHALL		1140-13145	Encounter Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.22:2014-12-01)
entry	0..*	MAY		1140-13146	
@typeCode	1..1	SHALL		1140-16613	DRIV
encounter	1..1	SHALL		1140-27301	Encounter Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.24:2014-12-01)
entry	0..*	MAY		1140-13148	
@typeCode	1..1	SHALL		1140-16614	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13149	Functional Status Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.25:2014-12-01)
entry	0..*	MAY		1140-13150	
@typeCode	1..1	SHALL		1140-16615	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27139	Functional Status Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.26:2014-12-01)
entry	0..*	MAY		1140-13152	
@typeCode	1..1	SHALL		1140-16616	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27073	Functional Status Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.27:2014-12-01)
entry	0..*	MAY		1140-13154	

@typeCode	1..1	SHALL		1140-16617	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27076	Laboratory Test Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.37:2014-12-01)
entry	0..*	MAY		1140-13156	
@typeCode	1..1	SHALL		1140-16618	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27156	Laboratory Test Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01)
entry	0..*	MAY		1140-13162	
@typeCode	1..1	SHALL		1140-16620	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
procedure	1..1	SHALL		1140-27084	Procedure Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.63:2014-12-01)
entry	0..*	MAY		1140-13164	
@typeCode	1..1	SHALL		1140-16621	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
procedure	1..1	SHALL		1140-27130	Procedure Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01)
entry	0..*	MAY		1140-13166	
@typeCode	1..1	SHALL		1140-16622	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
procedure	1..1	SHALL		1140-27087	Procedure Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.65:2014-12-01)
entry	0..*	MAY		1140-13170	
@typeCode	1..1	SHALL		1140-16624	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27295	Provider Care Experience (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.66:2014-12-01)

					0.24.3.67:2014-12-01
entry	0..*	MAY		1140-13172	
@typeCode	1..1	SHALL		1140-16625	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-28153	Symptom Active Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.120:2014-12-01)
entry	0..*	MAY		1140-13174	
@typeCode	1..1	SHALL		1140-16626	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-28196	Symptom Inactive Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.122:2014-12-01)
entry	0..*	MAY		1140-13176	
@typeCode	1..1	SHALL		1140-16627	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-28197	Symptom Resolved Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.124:2014-12-01)
entry	0..*	MAY		1140-13245	
@typeCode	1..1	SHALL		1140-16628	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27296	Patient Care Experience (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.48:2014-12-01)
entry	0..*	MAY		1140-13249	
@typeCode	1..1	SHALL		1140-16630	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27136	Physical Exam Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.59:2014-12-01)
entry	0..*	MAY		1140-13262	
@typeCode	1..1	SHALL		1140-16631	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) =

					DRIV
act	1..1	SHALL		1140-27379	Communication from Provider to Patient (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.3:2014-12-01)
entry	0..*	MAY		1140-13264	
@typeCode	1..1	SHALL		1140-16632	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-27380	Communication from Provider to Provider (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.4:2014-12-01)
entry	0..*	MAY		1140-13266	
@typeCode	1..1	SHALL		1140-16633	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13267	Device Allergy (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.6:2014-12-01)
entry	0..*	MAY		1140-13268	
@typeCode	1..1	SHALL		1140-16634	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
procedure	1..1	SHALL		1140-27133	Device Applied (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.7:2014-12-01)
entry	0..*	MAY		1140-13272	
@typeCode	1..1	SHALL		1140-16636	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13273	Laboratory Test Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.39:2014-12-01)
entry	0..*	MAY		1140-13294	
@typeCode	1..1	SHALL		1140-16638	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13295	Physical Exam Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.60:2014-12-01)
entry	0..*	MAY		1140-13865	

@typeCode	1..1	SHALL		1140-16639	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27300	Risk Category Assessment (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.69:2014-12-01)
entry	0..*	MAY		1140-13903	
@typeCode	1..1	SHALL		1140-16642	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
substanceAdministration	1..1	SHALL		1140-27090	Medication Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.47:2014-12-01)
entry	0..*	MAY		1140-13910	
@typeCode	1..1	SHALL		1140-16643	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
substanceAdministration	1..1	SHALL		1140-27040	Medication Active (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01)
entry	0..*	MAY		1140-13912	
@typeCode	1..1	SHALL		1140-16644	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
supply	1..1	SHALL		1140-27041	Medication Dispensed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.45:2014-12-01)
entry	0..*	MAY		1140-13916	
@typeCode	1..1	SHALL		1140-16645	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-27042	Intervention Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.33:2014-12-01)
entry	0..*	MAY		1140-13918	
act	1..1	SHALL		1140-27145	Intervention Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01)
entry	0..*	MAY		1140-13920	
@typeCode	1..1	SHALL		1140-	urn:oid:2.16.840.1.113883.5.100

				16646	2 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-27043	Intervention Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.31:2014-12-01)
entry	0..*	MAY		1140-13922	
@typeCode	1..1	SHALL		1140-16647	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27044	Intervention Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.30:2014-12-01)
entry	0..*	MAY		1140-13941	
@typeCode	1..1	SHALL		1140-16649	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
encounter	1..1	SHALL		1140-27045	Encounter Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.23:2014-12-01)
entry	0..*	MAY		1140-13947	
@typeCode	1..1	SHALL		1140-16653	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13948	Diagnostic Study Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.19:2014-12-01)
entry	0..*	MAY		1140-13949	
@typeCode	1..1	SHALL		1140-16654	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27142	Diagnostic Study Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.18:2014-12-01)
entry	0..*	MAY		1140-13951	
@typeCode	1..1	SHALL		1140-16655	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-13952	Diagnostic Study Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.17:2014-12-01)

entry	0..*	MAY		1140-13955	
@typeCode	1..1	SHALL		1140-16657	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27046	Procedure Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.61:2014-12-01)
entry	0..*	MAY		1140-13959	
@typeCode	1..1	SHALL		1140-16659	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27047	Procedure Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.62:2014-12-01)
entry	0..*	MAY		1140-14247	
@typeCode	1..1	SHALL		1140-16660	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27048	Patient Characteristic Clinical Trial Participant (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.51:2014-12-01)
entry	0..*	MAY		1140-14274	
@typeCode	1..1	SHALL		1140-16661	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27049	Medication Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.46:2014-12-01)
entry	0..*	MAY		1140-14278	
@typeCode	1..1	SHALL		1140-16662	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27050	Laboratory Test Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.36:2014-12-01)
entry	0..*	MAY		1140-14280	
@typeCode	1..1	SHALL		1140-16663	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV

observation	1..1	SHALL		1140-27051	Laboratory Test Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.35:2014-12-01)
entry	0..*	MAY		1140-14428	
@typeCode	1..1	SHALL		1140-16665	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
substanceAdministration	1..1	SHALL		1140-27153	Substance Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.75:2014-12-01)
entry	0..*	MAY		1140-14430	
@typeCode	1..1	SHALL		1140-16666	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-14431	Patient Characteristic Payer (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.55)
entry	0..*	MAY		1140-14471	
@typeCode	1..1	SHALL		1140-16667	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27052	Patient Characteristic Expired (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.54:2014-12-01)
entry	0..*	MAY		1140-14538	
@typeCode	1..1	SHALL		1140-16668	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27053	Medication Allergy (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.44:2014-12-01)
entry	0..*	MAY		1140-14540	
@typeCode	1..1	SHALL		1140-16669	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27063	Medication Adverse Effect (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.43:2014-12-01)
entry	0..*	MAY		1140-14565	

@typeCode	1..1	SHALL		1140-16670	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
organizer	1..1	SHALL		1140-27055	Diagnosis Family History (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.12:2014-12-01)
entry	0..*	MAY		1140-16548	
@typeCode	1..1	SHALL		1140-16674	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-16549	Patient Characteristic Observation Assertion (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.103:2014-12-01)
entry	0..*	MAY		1140-28214	
@typeCode	1..1	SHALL		1140-28215	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-28216	Provider Characteristic Observation Assertion (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.114:2014-12-01)
entry	0..*	MAY		1140-16556	
@typeCode	1..1	SHALL		1140-16675	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-27062	Discharge Medication - Active Medication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.105:2014-12-01)
entry	0..*	MAY		1140-16574	
@typeCode	1..1	SHALL		1140-16676	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27068	Care Goal (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.1:2014-12-01)
entry	0..*	MAY		1140-16707	
@typeCode	1..1	SHALL		1140-16708	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-27057	Medication Administered (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.106:2014-12-01)

					urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.42:2014-12-01
entry	0..*	MAY		1140-13924	
@typeCode	1..1	SHALL		1140-16648	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27061	Intervention Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.29:2014-12-01)
entry	0..*	MAY		1140-27079	
@typeCode	1..1	SHALL		1140-27080	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
observation	1..1	SHALL		1140-27081	Physical Exam Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.58:2014-12-01)
entry	0..*	MAY		1140-27109	
@typeCode	1..1	SHALL		1140-27110	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		1140-27111	Symptom Assessed Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.127:2014-12-01)
entry	0..*	MAY		1140-27805	
@typeCode	1..1	SHALL		1140-27832	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
encounter	1..1	SHALL		1140-28371	Transfer From (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.81:2014-12-01)
entry	0..*	MAY		1140-27831	
@typeCode	1..1	SHALL		1140-27833	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DRIV
encounter	1..1	SHALL		1140-28372	Transfer To (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.82:2014-12-01)

1. Conforms to [Patient Data Section](#) template (identifier: urn:oid:2.16.840.1.113883.10.20.17.2.4).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12796) such that it

- a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.2.1" (CONF:1140-12797).
3. **MAY** contain zero or more [0..*] **entry** (CONF:1140-12871) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16601).
 - b. **SHALL** contain exactly one [1..1] [Communication from Patient to Provider \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.2:2014-12-01) (CONF:1140-27378).
4. **MAY** contain zero or more [0..*] **entry** (CONF:1140-12875) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16602).
 - b. **SHALL** contain exactly one [1..1] [Device Adverse Event \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.5:2014-12-01) (CONF:1140-13135).
5. **MAY** contain zero or more [0..*] **entry** (CONF:1140-12902) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16603).
 - b. **SHALL** contain exactly one [1..1] [Device Intolerance \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.8:2014-12-01) (CONF:1140-13136).
6. **MAY** contain zero or more [0..*] **entry** (CONF:1140-12904) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16604).
 - b. **SHALL** contain exactly one [1..1] [Device Order \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.9:2014-12-01) (CONF:1140-27092).
7. **MAY** contain zero or more [0..*] **entry** (CONF:1140-12906) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16605).
 - b. **SHALL** contain exactly one [1..1] [Device Recommended \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.10:2014-12-01) (CONF:1140-27095).
8. **MAY** contain zero or more [0..*] **entry** (CONF:1140-12908) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16606).
 - b. **SHALL** contain exactly one [1..1] [Diagnosis Active Concern Act](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.121:2014-12-01) (CONF:1140-28152).
9. **MAY** contain zero or more [0..*] **entry** (CONF:1140-12976) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16607).
 - b. **SHALL** contain exactly one [1..1] [Diagnosis Inactive Concern Act](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.123:2014-12-01) (CONF:1140-28194).
- 10. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13015) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16608).
 - b. **SHALL** contain exactly one [1..1] [Diagnosis Resolved Concern Act](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.125:2014-12-01) (CONF:1140-28195).
- 11. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13017) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16609).
 - b. **SHALL** contain exactly one [1..1] [Diagnostic Study Adverse Event \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.15:2014-12-01) (CONF:1140-13142).
- 12. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13019) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16610).
 - b. **SHALL** contain exactly one [1..1] [Diagnostic Study Intolerance \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.16:2014-12-01) (CONF:1140-13143).
- 13. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13021) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16611).
 - b. **SHALL** contain exactly one [1..1] [Encounter Active \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.21:2014-12-01) (CONF:1140-27007).
- 14. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13034) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16612).
 - b. **SHALL** contain exactly one [1..1] [Encounter Order \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.22:2014-12-01) (CONF:1140-13145).
- 15. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13146) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CONF:1140-16613).

- b. **SHALL** contain exactly one [1..1] [Encounter Recommended \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.24:2014-12-01) (CONF:1140-27301).
- 16. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13148) such that it
 - a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16614).
 - b. **SHALL** contain exactly one [1..1] [Functional Status Order \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.25:2014-12-01) (CONF:1140-13149).
- 17. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13150) such that it
 - a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16615).
 - b. **SHALL** contain exactly one [1..1] [Functional Status Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.26:2014-12-01) (CONF:1140-27139).
- 18. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13152) such that it
 - a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16616).
 - b. **SHALL** contain exactly one [1..1] [Functional Status Recommended \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.27:2014-12-01) (CONF:1140-27073).
- 19. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13154) such that it
 - a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16617).
 - b. **SHALL** contain exactly one [1..1] [Laboratory Test Order \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.37:2014-12-01) (CONF:1140-27076).
- 20. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13156) such that it
 - a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16618).
 - b. **SHALL** contain exactly one [1..1] [Laboratory Test Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01) (CONF:1140-27156).
- 21. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13162) such that it
 - a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16620).
 - b. **SHALL** contain exactly one [1..1] [Procedure Order \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.63:2014-12-01) (CONF:1140-27084).

22. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13164) such that it
- a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16621).
 - b. **SHALL** contain exactly one [1..1] [Procedure Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01) (CONF:1140-27130).
23. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13166) such that it
- a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16622).
 - b. **SHALL** contain exactly one [1..1] [Procedure Recommended \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.65:2014-12-01) (CONF:1140-27087).
24. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13170) such that it
- a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16624).
 - b. **SHALL** contain exactly one [1..1] [Provider Care Experience \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.67:2014-12-01) (CONF:1140-27295).
25. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13172) such that it
- a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16625).
 - b. **SHALL** contain exactly one [1..1] [Symptom Active Concern Act](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.120:2014-12-01) (CONF:1140-28153).
26. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13174) such that it
- a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16626).
 - b. **SHALL** contain exactly one [1..1] [Symptom Inactive Concern Act](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.122:2014-12-01) (CONF:1140-28196).
27. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13176) such that it
- a. **SHALL** contain exactly one [1..1] @**typeCode**="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16627).
 - b. **SHALL** contain exactly one [1..1] [Symptom Resolved Concern Act](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.124:2014-12-01) (CONF:1140-28197).
28. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13245) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16628).
 - b. **SHALL** contain exactly one [1..1] Patient Care Experience (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.48:2014-12-01) (CONF:1140-27296).
- 29. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13249) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16630).
 - b. **SHALL** contain exactly one [1..1] Physical Exam Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.59:2014-12-01) (CONF:1140-27136).
- 30. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13262) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16631).
 - b. **SHALL** contain exactly one [1..1] Communication from Provider to Patient (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.3:2014-12-01) (CONF:1140-27379).
- 31. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13264) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16632).
 - b. **SHALL** contain exactly one [1..1] Communication from Provider to Provider (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.4:2014-12-01) (CONF:1140-27380).
- 32. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13266) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16633).
 - b. **SHALL** contain exactly one [1..1] Device Allergy (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.6:2014-12-01) (CONF:1140-13267).
- 33. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13268) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16634).
 - b. **SHALL** contain exactly one [1..1] Device Applied (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.7:2014-12-01) (CONF:1140-27133).
- 34. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13272) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16636).

- b. **SHALL** contain exactly one [1..1] [Laboratory Test Recommended \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.39:2014-12-01) (CONF:1140-13273).
- 35. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13294) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16638).
 - b. **SHALL** contain exactly one [1..1] [Physical Exam Recommended \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.60:2014-12-01) (CONF:1140-13295).
- 36. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13865) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16639).
 - b. **SHALL** contain exactly one [1..1] [Risk Category Assessment \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.69:2014-12-01) (CONF:1140-27300).
- 37. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13903) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16642).
 - b. **SHALL** contain exactly one [1..1] [Medication Order \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.47:2014-12-01) (CONF:1140-27090).
- 38. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13910) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16643).
 - b. **SHALL** contain exactly one [1..1] [Medication Active \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01) (CONF:1140-27040).
- 39. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13912) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16644).
 - b. **SHALL** contain exactly one [1..1] [Medication Dispensed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.45:2014-12-01) (CONF:1140-27041).
- 40. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13916) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16645).
 - b. **SHALL** contain exactly one [1..1] [Intervention Recommended \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.33:2014-12-01) (CONF:1140-27042).

41. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13918) such that it
- a. **SHALL** contain exactly one [1..1] [Intervention Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01) (CONF:1140-27145).
42. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13920) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="DRIV"** is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16646).
 - b. **SHALL** contain exactly one [1..1] [Intervention Order \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.31:2014-12-01) (CONF:1140-27043).
43. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13922) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="DRIV"** is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16647).
 - b. **SHALL** contain exactly one [1..1] [Intervention Intolerance \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.30:2014-12-01) (CONF:1140-27044).
44. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13941) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="DRIV"** is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16649).
 - b. **SHALL** contain exactly one [1..1] [Encounter Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.23:2014-12-01) (CONF:1140-27045).
45. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13947) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="DRIV"** is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16653).
 - b. **SHALL** contain exactly one [1..1] [Diagnostic Study Recommended \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.19:2014-12-01) (CONF:1140-13948).
46. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13949) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="DRIV"** is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16654).
 - b. **SHALL** contain exactly one [1..1] [Diagnostic Study Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01) (CONF:1140-27142).
47. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13951) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="DRIV"** is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16655).

- b. **SHALL** contain exactly one [1..1] [Diagnostic Study Order \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.17:2014-12-01) (CONF:1140-13952).
- 48. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13955) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16657).
 - b. **SHALL** contain exactly one [1..1] [Procedure Adverse Event \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.61:2014-12-01) (CONF:1140-27046).
- 49. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13959) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16659).
 - b. **SHALL** contain exactly one [1..1] [Procedure Intolerance \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.62:2014-12-01) (CONF:1140-27047).
- 50. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14247) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16660).
 - b. **SHALL** contain exactly one [1..1] [Patient Characteristic Clinical Trial Participant \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.51:2014-12-01) (CONF:1140-27048).
- 51. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14274) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16661).
 - b. **SHALL** contain exactly one [1..1] [Medication Intolerance \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.46:2014-12-01) (CONF:1140-27049).
- 52. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14278) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16662).
 - b. **SHALL** contain exactly one [1..1] [Laboratory Test Intolerance \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.36:2014-12-01) (CONF:1140-27050).
- 53. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14280) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16663).

- b. **SHALL** contain exactly one [1..1] [Laboratory Test Adverse Event \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.35:2014-12-01) (CONF:1140-27051).
- 54. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14428) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16665).
 - b. **SHALL** contain exactly one [1..1] [Substance Recommended \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.75:2014-12-01) (CONF:1140-27153).
- 55. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14430) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16666).
 - b. **SHALL** contain exactly one [1..1] [Patient Characteristic Payer](#) (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.55) (CONF:1140-14431).
- 56. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14471) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16667).
 - b. **SHALL** contain exactly one [1..1] [Patient Characteristic Expired \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.54:2014-12-01) (CONF:1140-27052).
- 57. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14538) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16668).
 - b. **SHALL** contain exactly one [1..1] [Medication Allergy \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.44:2014-12-01) (CONF:1140-27053).
- 58. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14540) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16669).
 - b. **SHALL** contain exactly one [1..1] [Medication Adverse Effect \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.43:2014-12-01) (CONF:1140-27063).
- 59. **MAY** contain zero or more [0..*] **entry** (CONF:1140-14565) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16670).
 - b. **SHALL** contain exactly one [1..1] [Diagnosis Family History \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.12:2014-12-01) (CONF:1140-27055).
- 60. **MAY** contain zero or more [0..*] **entry** (CONF:1140-16548) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" Is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16674).
 - b. **SHALL** contain exactly one [1..1] [Patient Characteristic Observation Assertion \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.103:2014-12-01) (CONF:1140-16549).
61. **MAY** contain zero or more [0..*] **entry** (CONF:1140-28214) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" Is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28215).
 - b. **SHALL** contain exactly one [1..1] [Provider Characteristic Observation Assertion](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.114:2014-12-01) (CONF:1140-28216).
62. **MAY** contain zero or more [0..*] **entry** (CONF:1140-16556) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16675).
 - b. **SHALL** contain exactly one [1..1] [Discharge Medication - Active Medication \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.105:2014-12-01) (CONF:1140-27062).
63. **MAY** contain zero or more [0..*] **entry** (CONF:1140-16574) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16676).
 - b. **SHALL** contain exactly one [1..1] [Care Goal \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.1:2014-12-01) (CONF:1140-27068).
64. **MAY** contain zero or more [0..*] **entry** (CONF:1140-16707) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16708).
 - b. **SHALL** contain exactly one [1..1] [Medication Administered \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.42:2014-12-01) (CONF:1140-27057).
65. **MAY** contain zero or more [0..*] **entry** (CONF:1140-13924) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16648).
 - b. **SHALL** contain exactly one [1..1] [Intervention Adverse Event \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.29:2014-12-01) (CONF:1140-27061).
66. **MAY** contain zero or more [0..*] **entry** (CONF:1140-27079) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27080).
 - b. **SHALL** contain exactly one [1..1] Physical Exam Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.58:2014-12-01) (CONF:1140-27081).
67. **MAY** contain zero or more [0..*] **entry** (CONF:1140-27109) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27110).
 - b. **SHALL** contain exactly one [1..1] Symptom Assessed Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.127:2014-12-01) (CONF:1140-27111).
68. **MAY** contain zero or more [0..*] **entry** (CONF:1140-27805) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" Is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27832).
 - b. **SHALL** contain exactly one [1..1] Transfer From (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.81:2014-12-01) (CONF:1140-28371).
69. **MAY** contain zero or more [0..*] **entry** (CONF:1140-27831) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="DRIV" Is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27833).
 - b. **SHALL** contain exactly one [1..1] Transfer To (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.82:2014-12-01) (CONF:1140-28372).

Figure 19: Patient Data Section QDM Example

```

<section>
  <!-- Patient Data Section -->
  <templateId root="2.16.840.1.113883.10.20.17.2.4" />
  <!-- Patient Data Section QDM (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.2.1"
    extension="2014-12-01" />
  <code code="55188-7" codeSystem="2.16.840.1.113883.6.1" />
  <title>Patient Data</title>
  <text>
    ...
  </text>

  <entry>
    ...
  </entry>
  ...
</section>

```

3.3 Reporting Parameters Section

[section: identifier urn:oid:2.16.840.1.113883.10.20.17.2.1 (open)]

Table 35: Reporting Parameters Section Contexts

Contained By:	Contains:
QDM-Based QRDA (V2) (required) QRDA Category I Framework (V2) (required)	Reporting Parameters Act

The Reporting Parameters Section provides information about the reporting time interval, and may contain other information that provides context for the data being reported. The receiving organization may tell the reporting institution what information is needed in this section. The reporting parameter time interval refers to the data being sent in the document and may differ from the quality measure's measurement period or valid dates for the data set.

Table 36: Reporting Parameters Section Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
section (identifier: urn:oid:2.16.840.1.113883.10.20.17.2.1)					
templateId	1..1	SHALL		23-14611	
@root	1..1	SHALL		23-14612	2.16.840.1.113883.10.20.17.2.1
code	1..1	SHALL		23-18191	
@code	1..1	SHALL		23-19229	55187-9
@codeSystem	1..1	SHALL		23-26552	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
title	1..1	SHALL		23-4142	Reporting Parameters
text	1..1	SHALL		23-4143	
entry	1..1	SHALL		23-3277	
@typeCode	1..1	SHALL		23-3278	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = DRIV
act	1..1	SHALL		23-17496	Reporting Parameters Act (identifier: urn:oid:2.16.840.1.113883.10.20.17.3.8)

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:23-14611) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.17.2.1" (CONF:23-14612).

2. **SHALL** contain exactly one [1..1] **code** (CONF:23-18191).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="55187-9" Reporting Parameters (CONF:23-19229).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:23-26552).
3. **SHALL** contain exactly one [1..1] **title**="Reporting Parameters" (CONF:23-4142).
4. **SHALL** contain exactly one [1..1] **text** (CONF:23-4143).
5. **SHALL** contain exactly one [1..1] **entry** (CONF:23-3277) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="DRIV" Is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:23-3278).
 - b. **SHALL** contain exactly one [1..1] Reporting Parameters Act (identifier: urn:oid:2.16.840.1.113883.10.20.17.3.8) (CONF:23-17496).

4 ENTRY-LEVEL TEMPLATES

4.1 Act Intolerance or Adverse Event Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01 (open)]

Table 37: Act Intolerance or Adverse Event Observation (V2) Contexts

Contained By:	Contains:
	Reaction (V2)

This clinical statement represents that an adverse event or some other type of intolerance to an act (e.g., a procedure) exists or does not exist. The cause of the adverse event is represented via an entryRelationship of type “CAUS” (has cause).

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 38: Act Intolerance or Adverse Event Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01)					
@classCode	1..1	SHALL		1140-16379	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-16380	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28039	
templateId	1..1	SHALL		1140-16381	
@root	1..1	SHALL		1140-16382	2.16.840.1.113883.10.20.24.3.104
@extension	1..1	SHALL		1140-27010	2014-12-01
id	1..*	SHALL		1140-16384	
code	1..1	SHALL		1140-16385	
@code	1..1	SHALL		1140-16386	ASSERTION
@codeSystem	1..1	SHALL		1140-27575	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		1140-16387	
@code	1..1	SHALL		1140-16388	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-16389	
low	1..1	SHALL		1140-16390	
high	0..1	SHOULD		1140-16391	
value	1..1	SHALL	CD	1140-16406	
@code	1..1	SHALL		1140-16407	urn:oid:2.16.840.1.113883.3.88.12.3221.6.2 (Allergy/Adverse Event Type)
entryRelationship	1..1	SHALL		1140-16392	
@typeCode	1..1	SHALL		1140-16393	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = CAUS
@inversionInd	1..1	SHALL		1140-16394	true

entryRelationship	0..1	SHOULD		1140-16396	
@typeCode	1..1	SHALL		1140-16397	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = MFST
@inversionInd	1..1	SHALL		1140-16398	true
observation	1..1	SHALL		1140-16399	Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.85:2014-12-01

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-16379).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-16380).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28039).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-16381) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.104" (CONF:1140-16382).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27010).
5. **SHALL** contain at least one [1..*] **id** (CONF:1140-16384).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-16385).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="ASSERTION" Assertion (CONF:1140-16386).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1140-27575).
7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-16387).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-16388).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-16389).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-16390).
 - b. This effectiveTime **SHOULD** contain zero or one [0..1] **high** (CONF:1140-16391).
9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-16406).
 - a. This value **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [Allergy/Adverse Event Type](#) urn:oid:2.16.840.1.113883.3.88.12.3221.6.2 **DYNAMIC** (CONF:1140-16407).
10. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-16392) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16393).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" (CONF:1140-16394).
11. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:1140-16396) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16397).
- b. **SHALL** contain exactly one [1..1] @inversionInd="true" (CONF:1140-16398).
- c. **SHALL** contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-16399).

Table 39: Allergy/Adverse Event Type

Value Set: Allergy/Adverse Event Type urn:oid:2.16.840.1.113883.3.88.12.3221.6.2 This describes the type of product and intolerance suffered by the patient. Specific URL Pending Value Set Source: https://vsac.nlm.nih.gov			
Code	Code System	Code System OID	Print Name
419199007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Allergy to substance (disorder)
416098002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Drug allergy (disorder)
59037007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Drug intolerance (disorder)
414285001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Food allergy (disorder)
235719002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Food intolerance (disorder)
420134006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Propensity to adverse reactions (disorder)
419511003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Propensity to adverse reactions to drug (disorder)
418471000	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Propensity to adverse reactions to food (disorder)
418038007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Propensity to adverse reactions to substance (disorder)
232347008	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Dander (animal) allergy
...			

4.1.1 Diagnostic Study Adverse Event (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.15:2014-12-01
(open)]

Table 40: Diagnostic Study Adverse Event (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Diagnostic Study Performed (V2) Patient Preference (V2) Provider Preference (V2) Radiation Dosage and Duration (V2)

This template represents the QDM datatype: Diagnostic Study, Adverse Event.

This datatype represents an adverse event caused by a diagnostic study. An adverse event is an unexpected or dangerous reaction to a device, diagnostic study, intervention, laboratory test, procedure, or substance. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolonging hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter. A diagnostic study is any kind of medical test performed such as a specific test or series of steps to aid in diagnosing or detecting disease (e.g., to establish a diagnosis, measure the progress or recovery from disease, to confirm that a person is free from disease).

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 41: Diagnostic Study Adverse Event (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.15:2014-12-01)					
@classCode	1..1	SHALL		1140-11767	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11768	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28060	
templateId	1..1	SHALL		1140-11769	
@root	1..1	SHALL		1140-11770	2.16.840.1.113883.10.20.24.3.15
@extension	1..1	SHALL		1140-27012	2014-12-01
value	1..1	SHALL	CD	1140-16408	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT)
@code	1..1	SHALL		1140-26938	281647001
@codeSystem	1..1	SHALL		1140-26939	2.16.840.1.113883.6.96
entryRelationship	1..1	SHALL		1140-11779	
@typeCode	1..1	SHALL		1140-11780	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = CAUS
@inversionInd	1..1	SHALL		1140-11781	true
observation	1..1	SHALL		1140-27149	Diagnostic Study Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01)
entryRelationship	0..1	MAY		1140-11787	
@typeCode	1..1	SHALL		1140-11788	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27251	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11790	
@typeCode	1..1	SHALL		1140-11791	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27252	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

					urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
entryRelationship	0..1	MAY		1140-27413	
@typeCode	1..1	SHALL		1140-27414	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27415	Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01)

1. Conforms to [Act Intolerance or Adverse Event Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11767).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11768).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28060).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11769) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.15" (CONF:1140-11770).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27012).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 **STATIC**) (CONF:1140-16408).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="281647001" Adverse reaction (CONF:1140-26938).
 - b. This value **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CONF:1140-26939).
7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-11779) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11780).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" (CONF:1140-11781).
 - c. **SHALL** contain exactly one [1..1] [Diagnostic Study Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01) (CONF:1140-27149).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11787) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11788).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27251).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11790) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11791).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27252).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27413) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27414).
 - b. **SHALL** contain exactly one [1..1] [Radiation Dosage and Duration \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27415).

Figure 20: Diagnostic Study Adverse (V2) Event

```
<observation classCode="OBS" moodCode="EVN">

  <!-- Conforms to Act Intolerance or Adverse Event Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.104"
    extension="2014-12-01" />

  <!-- Diagnostic Study Adverse Event (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.15"
    extension="2014-12-01" />
  <id root="9e5cd480-ba4e-4562-9c6f-cfed0df5d6d4" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
    codeSystemName="ActCode" displayName="Assertion" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="201202021030" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="201203021030" />
  </effectiveTime>

  <value xsi:type="CD" code="281647001"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
    displayName="Adverse reaction" />

  <!-- QDM Datatype: Diagnostic Study, Performed -->
  <entryRelationship typeCode="CAUS" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">

      <!-- Conforms to C-CDA R2 Procedure Activity Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.13"
        extension="2014-06-09" />

      <!-- Diagnostic Study Performed (QRDA I R3) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.18"
        extension="2014-12-01" />

      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">

      <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9"
        extension="2014-06-09" />

      <!-- Reaction (QRDA I V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85"
        extension="2014-12-01" />

      ...
    </observation>
  </entryRelationship>
```

```

<!-- QDM Attribute: Patient Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.83"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<entryRelationship typeCode="REFR">
  <observation classCode="OBS" moodCode="EVN">
    <!-- Radiation Dosage and Duration (QRDA I R3) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.91"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</observation>

```

4.1.2 Diagnostic Study Intolerance (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.16:2014-12-01
(open)]

Table 42: Diagnostic Study Intolerance (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Diagnostic Study Performed (V2) Patient Preference (V2) Provider Preference (V2) Radiation Dosage and Duration (V2) Reaction (V2)

This template represents the QDM datatype: Diagnostic Study, Intolerance.

This datatype represents an intolerance to a diagnostic study perceived and reported by the patient.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 43: Diagnostic Study Intolerance (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.16:2014-12-01)					
@classCode	1..1	SHALL		1140-11733	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11734	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28061	
templateId	1..1	SHALL		1140-11735	
@root	1..1	SHALL		1140-11736	2.16.840.1.113883.10.20.24.3.16
@extension	1..1	SHALL		1140-27015	2014-12-01
id	1..1	SHALL		1140-11737	
value	1..1	SHALL	CD	1140-14572	
@code	1..1	SHALL		1140-16411	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 102460003
entryRelationship	1..1	SHALL		1140-11745	
@typeCode	1..1	SHALL		1140-11746	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CAUS
@inversionInd	1..1	SHALL		1140-11747	true
observation	1..1	SHALL		1140-27150	Diagnostic Study Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01)
entryRelationship	0..1	SHOULD		1140-11749	
@typeCode	1..1	SHALL		1140-11750	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = MFST
@inversionInd	1..1	SHALL		1140-11751	true
observation	1..1	SHALL		1140-11752	Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01)
entryRelationship	0..1	MAY		1140-11753	
@typeCode	1..1	SHALL		1140-11754	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27249	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.86:2014-12-01)

					urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
entryRelationship	0..1	MAY		1140-11756	
@typeCode	1..1	SHALL		1140-11757	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27250	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-27410	
@typeCode	1..1	SHALL		1140-27411	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27412	Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01)

1. Conforms to [Act Intolerance or Adverse Event Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11733).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11734).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28061).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11735) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.16" (CONF:1140-11736).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27015).
6. **SHALL** contain exactly one [1..1] **id** (CONF:1140-11737).
7. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-14572).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-16411).
8. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-11745) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11746).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" (CONF:1140-11747).
 - c. **SHALL** contain exactly one [1..1] [Diagnostic Study Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01) (CONF:1140-27150).
9. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:1140-11749) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="MFST" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11750).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" (CONF:1140-11751).

- c. **SHALL** contain exactly one [1..1] [Reaction \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-11752).
- 10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11753) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11754).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27249).
- 11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11756) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11757).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27250).
- 12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27410) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27411).
 - b. **SHALL** contain exactly one [1..1] [Radiation Dosage and Duration \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27412).

Figure 21: Diagnostic Study Intolerance (V2) Example

```
<observation classCode="OBS" moodCode="EVN">

  <!-- Conforms to Act Intolerance or Adverse Event Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.104"
    extension="2014-12-01" />

  <!-- Diagnostic Study Intolerance (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.16"
    extension="2014-12-01" />
  <id root="9e5cd480-ba4e-4562-9c6f-cfed0df5d6d4" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
    codeSystemName="ActCode" displayName="Assertion" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="201202021030" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="201203021030" />
  </effectiveTime>

  <value xsi:type="CD" code="102460003"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
    displayName="Decreased tolerance" />

  <!-- QDM Datatype: Diagnostic Study, Performed -->
  <entryRelationship typeCode="CAUS" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">

      <!-- Conforms to C-CDA R2 Procedure Activity Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.13"
        extension="2014-06-09" />

      <!-- Diagnostic Study Performed (QRDA I R3) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.18"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">

      <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9"
        extension="2014-06-09" />

      <!-- Reaction (QRDA I V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Patient Preference -->
```

```

<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.83"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84"
      extension="2014-12-01" />
    <id root="9aac6b64-d0fc-4c57-8b44-2b0ca387f76d" />
    ...
  </observation>
</entryRelationship>

<entryRelationship typeCode="REFR">
  <observation classCode="OBS" moodCode="EVN">
    <!-- Radiation Dosage and Duration (QRDA I R3) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.91"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</observation>

```

4.1.3 Intervention Adverse Event (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.29:2014-12-01
(open)]

Table 44: Intervention Adverse Event (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Intervention Performed (V2) Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Intervention, Adverse Event.

An Intervention Adverse Event is an unexpected or dangerous reaction to an intervention. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolonging hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 45: Intervention Adverse Event (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.29:2014-12-01)					
@classCode	1..1	SHALL		1140-13538	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-13539	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28069	
templateId	1..1	SHALL		1140-13540	
@root	1..1	SHALL		1140-13541	2.16.840.1.113883.10.20.24.3.29
@extension	1..1	SHALL		1140-27016	2014-12-01
id	1..1	SHALL		1140-13542	
value	1..1	SHALL	CD	1140-16412	
@code	1..1	SHALL		1140-16413	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 281647001
entryRelationship	1..1	SHALL		1140-13549	
@typeCode	1..1	SHALL		1140-13550	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = CAUS
@inversionInd	1..1	SHALL		1140-13551	true
act	1..1	SHALL		1140-27151	Intervention Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01)
entryRelationship	0..1	MAY		1140-13557	
@typeCode	1..1	SHALL		1140-13558	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27248	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-13560	
@typeCode	1..1	SHALL		1140-13561	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27271	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

					urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
--	--	--	--	--	---

1. Conforms to [Act Intolerance or Adverse Event Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-13538).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13539).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28069).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13540) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.29" (CONF:1140-13541).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27016).
6. **SHALL** contain exactly one [1..1] **id** (CONF:1140-13542).
7. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-16412).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="281647001" Adverse reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-16413).
8. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-13549) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13550).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" (CONF:1140-13551).
 - c. **SHALL** contain exactly one [1..1] [Intervention Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01) (CONF:1140-27151).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13557) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13558).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27248).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13560) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13561).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27271).

Figure 22: Intervention Adverse Event (V2) Example

```
<observation classCode="OBS" moodCode="EVN">

  <!-- Conforms to Act Intolerance or Adverse Event Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.104"
    extension="2014-12-01" />

  <!-- Intervention Adverse Event (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.29"
    extension="2014-12-01" />
  <id root="1d4c99ac-133d-4db9-a512-d57142246e2c" />
  <code code="ASSERTION"
    codeSystem="2.16.840.1.113883.5.4"
    codeSystemName="ActCode"
    displayName="Assertion" />
  <statusCode code="completed" />
  <effectiveTime>

    <!-- QDM Attribute: Start Datetime -->
    <low value="201202021030" />

    <!-- QDM Attribute: Stop Datetime -->
    <high value="201203021030" />
  </effectiveTime>
  <value xsi:type="CD" code="281647001"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Adverse reaction" />

  <!-- QDM Datatype: Intervention, Performed -->
  <entryRelationship typeCode="CAUS" inversionInd="true">
    <act classCode="ACT" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Procedure Activity Act (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.12"
        extension="2014-06-09" />

      <!-- Intervention Performed (QRDA I R3) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.32"
        extension="2014-12-01" />

      ...
    </act>
  </entryRelationship>

  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">

      <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9"
        extension="2014-06-09" />

      <!-- Reaction (QRDA I V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85"
        extension="2014-12-01" />

      ...
    </observation>
  </entryRelationship>
</observation>
```

```

</entryRelationship>

<!-- QDM Attribute: Patient Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.83"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84"
      extension="2014-12-01" />
    <id root="9aac6b64-d0fc-4c57-8b44-2b0ca387f76d" />
    ...
  </observation>
</entryRelationship>
</observation>

```

4.1.4 Intervention Intolerance (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.30:2014-12-01 (open)]

Table 46: Intervention Intolerance (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Intervention Performed (V2) Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Intervention, Intolerance.

An intervention intolerance is an intolerance to an intervention generally perceived and reported by the patient. This can be used to document why recommended interventions were not completed. For example, a patient may claim the pain from a physical therapy procedure was too great.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 47: Intervention Intolerance (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.30:2014-12-01)					
@classCode	1..1	SHALL		1140-13657	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-13658	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28070	
templateId	1..1	SHALL		1140-13659	
@root	1..1	SHALL		1140-13660	2.16.840.1.113883.10.20.24.3.30
@extension	1..1	SHALL		1140-27017	2014-12-01
id	1..1	SHALL		1140-13661	
value	1..1	SHALL	CD	1140-16414	
@code	1..1	SHALL		1140-16415	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 102460003
entryRelationship	0..1	MAY		1140-13673	
@typeCode	1..1	SHALL		1140-13674	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27246	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-13676	
@typeCode	1..1	SHALL		1140-13677	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27247	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	1..1	SHALL		1140-13679	
@typeCode	1..1	SHALL		1140-13680	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CAUS
@inversionInd	1..1	SHALL		1140-13681	true
act	1..1	SHALL		1140-13683	Intervention Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01)

1. Conforms to [Act Intolerance or Adverse Event Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-13657).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13658).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28070).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13659) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.30" (CONF:1140-13660).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27017).
6. **SHALL** contain exactly one [1..1] **id** (CONF:1140-13661).
7. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-16414).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-16415).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13673) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-13674).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27246).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13676) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-13677).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27247).
10. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-13679) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-13680).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" (CONF:1140-13681).
 - c. **SHALL** contain exactly one [1..1] [Intervention Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01) (CONF:1140-13683).

Figure 23: Intervention Intolerance (V2)

```
<observation classCode="OBS" moodCode="EVN">

  <!-- Conforms to Act Intolerance or Adverse Event Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.104"
    extension="2014-12-01" />

  <!-- Intervention Intolerance (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.30"
    extension="2014-12-01" />
  <id root="246cd69f-be23-4566-945a-5c65a13294de" />
  <code code="ASSERTION"
    codeSystem="2.16.840.1.113883.5.4"
    codeSystemName="ActCode"
    displayName="Assertion" />
  <statusCode code="completed" />
  <effectiveTime>

    <!-- QDM Attribute: Start Datetime -->
    <low value="201202021030" />

    <!-- QDM Attribute: Stop Datetime -->
    <high value="201203021030" />
  </effectiveTime>
  <value xsi:type="CD"
    code="102460003"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Decrease tolerance" />

  <!-- QDM Datatype: Intervention, Performed -->
  <entryRelationship typeCode="CAUS" inversionInd="true">
    <act classCode="ACT" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Procedure Activity Act (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.12"
        extension="2014-06-09" />

      <!-- Intervention Performed (QRDA I R3) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.32"
        extension="2014-12-01" />
      ...
    </act>
  </entryRelationship>

  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">

      <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9"
        extension="2014-06-09" />

      <!-- Reaction (QRDA I V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

```

    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>

```

4.1.5 Laboratory Test Adverse Event (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.35:2014-12-01 (open)]

Table 48: Laboratory Test Adverse Event (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Laboratory Test Performed (V2) Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Laboratory Test, Adverse Event.

This template represents a laboratory test adverse event. A laboratory test adverse event is an unexpected or dangerous reaction to a laboratory test. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolong hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 49: Laboratory Test Adverse Event (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.35:2014-12-01)					
@classCode	1..1	SHALL		1140-14060	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-14061	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28074	
templateId	1..1	SHALL		1140-14062	
@root	1..1	SHALL		1140-14063	2.16.840.1.113883.10.20.24.3.35
@extension	1..1	SHALL		1140-27018	2014-12-01
value	1..1	SHALL	CD	1140-16416	
@code	1..1	SHALL		1140-16417	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 281647001
entryRelationship	1..1	SHALL		1140-14072	
@typeCode	1..1	SHALL		1140-14073	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = CAUS
@inversionInd	1..1	SHALL		1140-14074	true
observation	1..1	SHALL		1140-27154	Laboratory Test Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01)
entryRelationship	0..1	MAY		1140-14080	
@typeCode	1..1	SHALL		1140-14081	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27244	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-14083	
@typeCode	1..1	SHALL		1140-14084	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27245	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

1. Conforms to [Act Intolerance or Adverse Event Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-14060).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-14061).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28074).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-14062) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.35" (CONF:1140-14063).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27018).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-16416).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="281647001" Adverse reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-16417).
7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-14072) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14073).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" (CONF:1140-14074).
 - c. **SHALL** contain exactly one [1..1] [Laboratory Test Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01) (CONF:1140-27154).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-14080) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14081).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27244).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-14083) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14084).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27245).

Figure 24: Laboratory Test Adverse Event (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to Act Intolerance or Adverse Event Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.104" extension="2014-12-01" />
  <!-- Laboratory Test Adverse Event (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.35" extension="2014-12-01" />
  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20120329090000+0500" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20120329103000+0500" />
  </effectiveTime>
  <value xsi:type="CD" code="281647001" displayName="Adverse reaction"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
  <entryRelationship typeCode="CAUS" inversionInd="true">
    <!-- Laboratory Test Performed -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Result Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2014-06-09" />
      <!-- Laboratory Test Performed (V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.38" extension="2014-12-01" />
      <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />
      <!-- Laboratory Test -->
      ...
    </entryRelationship>
  </observation>
</entryRelationship>
<!-- QDM Attribute: Reaction -->
<entryRelationship typeCode="MFST" inversionInd="true">
  <observation classCode="OBS" moodCode="EVN">
    <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
    <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014-06-09" />
    <!-- Reaction -->
    <templateId root="2.16.840.1.113883.10.20.24.3.85" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
<!-- QDM Attribute: Patient Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</observation>
```

4.1.6 Laboratory Test Intolerance (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.36:2014-12-01
(open)]

Table 50: Laboratory Test Intolerance (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Laboratory Test Performed (V2) Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Laboratory Test, Intolerance.

Laboratory test intolerance is a reaction in specific patients representing a low threshold to the normal reported or expected reactions of the study. Intolerance is generally based on patient report and perception of his or her ability to tolerate a properly executed laboratory study.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 51: Laboratory Test Intolerance (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.36:2014-12-01)					
@classCode	1..1	SHALL		1140-13961	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-13962	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28075	
templateId	1..1	SHALL		1140-13963	
@root	1..1	SHALL		1140-13964	2.16.840.1.113883.10.20.24.3.36
@extension	1..1	SHALL		1140-27019	2014-12-01
value	1..1	SHALL	CD	1140-14573	
@code	1..1	SHALL		1140-16418	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 102460003
entryRelationship	1..1	SHALL		1140-13973	
@typeCode	1..1	SHALL		1140-13974	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CAUS
@inversionInd	1..1	SHALL		1140-13975	true
observation	1..1	SHALL		1140-27155	Laboratory Test Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01)
entryRelationship	0..1	MAY		1140-13981	
@typeCode	1..1	SHALL		1140-13982	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27255	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-13984	
@typeCode	1..1	SHALL		1140-13985	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27256	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)

1. Conforms to [Act Intolerance or Adverse Event Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01).
2. **SHALL** contain exactly one [1..1] **@classCode="OBS"** (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-13961).
3. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13962).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28075).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13963) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.36"** (CONF:1140-13964).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27019).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"** (CONF:1140-14573).
 - a. This value **SHALL** contain exactly one [1..1] **@code="102460003"** Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-16418).
7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-13973) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="CAUS"** (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-13974).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** (CONF:1140-13975).
 - c. **SHALL** contain exactly one [1..1] [Laboratory Test Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01) (CONF:1140-27155).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13981) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-13982).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27255).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13984) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-13985).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27256).

Figure 25: Laboratory Test Intolerance (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to Act Intolerance or Adverse Event Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.104" extension="2014-12-01" />
  <!-- Laboratory Test Intolerance (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.36" extension="2014-12-01" />
  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20120329090000+0500" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20120329103000+0500" />
  </effectiveTime>
  <value xsi:type="CD" code="102460003" displayName="Decreased tolerance"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
  <entryRelationship typeCode="CAUS" inversionInd="true">
    <!-- Laboratory Test Performed -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Result Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2014-06-09" />
      <!-- Laboratory Test Performed (V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.38" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014-06-09" />
      <!-- Reaction -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.1.7 Procedure Adverse Event (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.61:2014-12-01
(open)]

Table 52: Procedure Adverse Event (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Procedure Performed (V2) Provider Preference (V2)

This template represents the QDM datatype: Procedure, Adverse Event.

An adverse event is an unexpected or dangerous reaction to a procedure. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolonging hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 53: Procedure Adverse Event (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.61:2014-12-01)					
@classCode	1..1	SHALL		1140-11373	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11374	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28095	
templateId	1..1	SHALL		1140-11375	
@root	1..1	SHALL		1140-11376	2.16.840.1.113883.10.20.24.3.61
@extension	1..1	SHALL		1140-27009	2014-12-01
id	1..1	SHALL		1140-11377	
value	1..1	SHALL	CD	1140-16419	
@code	1..1	SHALL		1140-16420	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 281647001
entryRelationship	1..1	SHALL		1140-11385	
@typeCode	1..1	SHALL		1140-11386	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = CAUS
@inversionInd	1..1	SHALL		1140-11387	true
procedure	1..1	SHALL		1140-27147	Procedure Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01)
entryRelationship	0..1	MAY		1140-11411	
@typeCode	1..1	SHALL		1140-11412	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27257	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11414	
@typeCode	1..1	SHALL		1140-11415	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27258	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

					urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
--	--	--	--	--	--

1. Conforms to [Act Intolerance or Adverse Event Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01).
2. **SHALL** contain exactly one [1..1] **@classCode="OBS"** (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11373).
3. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11374).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28095).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11375) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.61"** (CONF:1140-11376).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27009).
6. **SHALL** contain exactly one [1..1] **id** (CONF:1140-11377).
7. **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"** (CONF:1140-16419).
 - a. This value **SHALL** contain exactly one [1..1] **@code="281647001"** Adverse reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-16420).
8. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-11385) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="CAUS"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11386).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** (CONF:1140-11387).
 - c. **SHALL** contain exactly one [1..1] [Procedure Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01) (CONF:1140-27147).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11411) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11412).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27257).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11414) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11415).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27258).

Figure 26: Procedure Adverse Event (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to Act Intolerance or Adverse Event Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.104"
    extension="2014-12-01" />

  <!-- Procedure Adverse Event (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.61"
    extension="2014-12-01" />
  <id root="db734647-fc99-424c-a864-7e3cda82e703" />
  <code code="ASSERTION"
    codeSystem="2.16.840.1.113883.5.4"
    codeSystemName="ActCode"
    displayName="Assertion" />
  <statusCode code="completed" />
  <effectiveTime>

    <!-- QDM QDM Attribute: Start Datetime -->
    <low value="201202021030" />

    <!-- QDM Attribute: Stop Datetime -->
    <high value="201203021030" />
  </effectiveTime>
  <value xsi:type="CD"
    code="281647001"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Adverse reaction" />

  <!-- QDM Data Element: Procedure, Performed -->
  <entryRelationship typeCode="CAUS" inversionInd="true">
    <procedure classCode="PROC" moodCode="EVN">

      <!-- Conforms to C-CDA R2 Procedure Activity Procedure (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.14"
        extension="2014-06-09" />

      <!-- Procedure Performed (QRDA I V3) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.64"
        extension="2014-12-01" />
      ...
    </procedure>
  </entryRelationship>

  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">

      <!-- Reaction (QRDA I V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Patient Preference -->
```

```

<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.83"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</observation>

```

4.1.8 Procedure Intolerance (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.62:2014-12-01
(open)]

Table 54: Procedure Intolerance (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Procedure Performed (V2) Provider Preference (V2)

This template represents the QDM datatype: Procedure, Intolerance.

Procedure Intolerance describes an intolerance to a procedure generally perceived and reported by the patient. For example, a patient may report that a certain physical therapy procedure causes too much pain to continue complying with the regimen.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 55: Procedure Intolerance (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.62:2014-12-01)					
@classCode	1..1	SHALL		1140-11433	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11434	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28096	
templateId	1..1	SHALL		1140-11435	
@root	1..1	SHALL		1140-11436	2.16.840.1.113883.10.20.24.3.62
@extension	1..1	SHALL		1140-27020	2014-12-01
id	1..1	SHALL		1140-11437	
priorityCode	0..1	MAY		1140-27336	
value	1..1	SHALL	CD	1140-14574	
@code	1..1	SHALL		1140-16421	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 102460003
entryRelationship	0..1	MAY		1140-11460	
@typeCode	1..1	SHALL		1140-11461	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27242	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11462	
@typeCode	1..1	SHALL		1140-11463	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27243	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	1..1	SHALL		1140-11601	
@typeCode	1..1	SHALL		1140-11602	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CAUS
@inversionInd	1..1	SHALL		1140-11603	true
procedure	1..1	SHALL		1140-27148	Procedure Performed (V2) (identifier:

					urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01
--	--	--	--	--	--

1. Conforms to [Act Intolerance or Adverse Event Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11433).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11434).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28096).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11435) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.62" (CONF:1140-11436).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27020).
6. **SHALL** contain exactly one [1..1] **id** (CONF:1140-11437).
7. **MAY** contain zero or one [0..1] **priorityCode** (CONF:1140-27336).
8. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-14574).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-16421).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11460) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11461).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27242).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11462) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11463).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27243).
11. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-11601) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11602).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" (CONF:1140-11603).
 - c. **SHALL** contain exactly one [1..1] [Procedure Performed \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01) (CONF:1140-27148).

Figure 27: Procedure Intolerance (V2) Example

```
<observation classCode="OBS" moodCode="EVN">

  <!-- Conforms to Act Intolerance or Adverse Event Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.104"
    extension="2014-12-01" />

  <!-- Procedure Intolerance (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.62"
    extension="2014-12-01" />

  <id root="4bd5ad0d-954d-47d9-8cd4-0844ce9f437b" />
  <code code="ASSERTION"
    codeSystem="2.16.840.1.113883.5.4"
    codeSystemName="ActCode"
    displayName="Assertion" />
  <statusCode code="completed" />
  <effectiveTime>

    <!-- QDM Attribute: Start Datetime -->
    <low value="201202021030" />

    <!-- QDM Attribute: Stop Datetime -->
    <high value="201203021030" />
  </effectiveTime>

  <!-- QDM Attribute: Ordinality -->
  <!-- The following code may not be correct and may change in the future (if
    the relevant eMeasure is changed -->
  <priorityCode code="63161005"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Principal"
    sdtc:valueSet="{ $QDMElementValueSetOID }" />

  <value xsi:type="CD"
    code="102460003"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Decreased tolerance" />

  <!-- QDM Data Element: Procedure, Performed -->
  <entryRelationship typeCode="CAUS" inversionInd="true">
    <procedure classCode="PROC" moodCode="EVN">

      <!-- Conforms to C-CDA R2 Procedure Activity Procedure (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.14"
        extension="2014-06-09" />

      <!-- Procedure Performed (QRDA I V3) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.64"
        extension="2014-12-01" />

      ...
    </procedure>
  </entryRelationship>
```

```

<!-- QDM Attribute: Reaction -->
<entryRelationship typeCode="MFST" inversionInd="true">
  <observation classCode="OBS" moodCode="EVN">

    <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
    <templateId root="2.16.840.1.113883.10.20.22.4.9"
      extension="2014-06-09" />

    <!-- Reaction (QRDA I V2) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.85"
      extension="2014-12-01" />

    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Patient Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.83"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

</observation>

```

4.2 Age Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.31 (open)]

Table 56: Age Observation Contexts

Contained By:	Contains:
Problem Observation (V2) (optional)	
Family History Observation (V2) (optional)	

This Age Observation represents the subject's age at onset of an event or observation. The age of a relative in a Family History Observation at the time of that observation could also be inferred by comparing RelatedSubject/subject/birthTime with Observation/effectiveTime. However, a common scenario is that a patient will know the age of a relative when the relative had a certain condition or when the relative died, but will not know the actual year (e.g., "grandpa died of a heart attack at the age of 50"). Often times, neither precise dates nor ages are known (e.g., "cousin died of congenital heart disease as an infant").

Table 57: Age Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.31)					
@classCode	1..1	SHALL		81-7613	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		81-7614	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		81-7899	
@root	1..1	SHALL		81-10487	2.16.840.1.113883.10.20.22.4.31
code	1..1	SHALL		81-7615	
@code	1..1	SHALL		81-16776	445518008
@codeSystem	1..1	SHALL		81-26499	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
statusCode	1..1	SHALL		81-15965	
@code	1..1	SHALL		81-15966	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
value	1..1	SHALL	PQ	81-7617	
@unit	1..1	SHALL	CS	81-7618	urn:oid:2.16.840.1.113883.11.20.9.21 (AgePQ_UCUM)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-7613).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:81-7614).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-7899) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.31" (CONF:81-10487).
4. **SHALL** contain exactly one [1..1] **code** (CONF:81-7615).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="445518008" Age At Onset (CONF:81-16776).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:81-26499).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:81-15965).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:81-15966).

6. **SHALL** contain exactly one [1..1] **value** with @xsi:type="PQ" (CONF:81-7617).
- a. This value **SHALL** contain exactly one [1..1] **@unit**, which **SHALL** be selected from ValueSet [AgePQ UCUM](#) urn:oid:2.16.840.1.113883.11.20.9.21 **DYNAMIC** (CONF:81-7618).

Table 58: AgePQ UCUM

Value Set: AgePQ_UCUM urn:oid:2.16.840.1.113883.11.20.9.21 A valueSet of UCUM codes for representing age value units. Value Set Source: http://unitsofmeasure.org/ucum.html			
Code	Code System	Code System OID	Print Name
min	UCUM	urn:oid:2.16.840.1.113883.6.8	Minute
h	UCUM	urn:oid:2.16.840.1.113883.6.8	Hour
d	UCUM	urn:oid:2.16.840.1.113883.6.8	Day
wk	UCUM	urn:oid:2.16.840.1.113883.6.8	Week
mo	UCUM	urn:oid:2.16.840.1.113883.6.8	Month
a	UCUM	urn:oid:2.16.840.1.113883.6.8	Year

Figure 28: Age Observation Example

<pre> <observation classCode="OBS" moodCode="EVN"> <templateId root="2.16.840.1.113883.10.20.22.4.31" /> <!-- Age observation --> <code code="445518008" codeSystem="2.16.840.1.113883.6.96" displayName="Age At Onset" /> <statusCode code="completed" /> <value xsi:type="PQ" value="57" unit="a" /> </observation> </pre>
--

4.3 Allergy Status Observation (DEPRECATED) - Deprecated

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.28:2014-06-09 (open)]

Table 59: Allergy Status Observation (DEPRECATED) Contexts

Contained By:	Contains:
Substance or Device Allergy - Intolerance Observation [V2] (optional)	

This template represents the status of the allergy indicating whether it is active, no longer active, or is an historic allergy. There can be only one allergy status observation per alert observation.

THIS TEMPLATE HAS BEEN DEPRECATED AND MAY BE DELETED FROM A FUTURE RELEASE OF THIS IMPLEMENTATION GUIDE. USE OF THIS TEMPLATE IS NOT RECOMMENDED.

Reason for deprecation: Per the explanation in Volume 1, Section 3.2 "Determining a Clinical Statement's Status", the status of an allergy is determined based on attributes of the Allergy Problem Act and Allergy - Intolerance Observation.

Table 60: Allergy Status Observation (DEPRECATED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.28:2014-06-09)					
@classCode	1..1	SHALL		1098-7318	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-7319	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-7317	
@root	1..1	SHALL		1098-10490	2.16.840.1.113883.10.20.22.4.28
@extension	1..1	SHALL		1098-32576	2014-06-09
code	1..1	SHALL		1098-7320	
@code	1..1	SHALL		1098-19131	33999-4
@codeSystem	1..1	SHALL		1098-32155	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1098-7321	
@code	1..1	SHALL		1098-19087	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
value	1..1	SHALL	CD	1098-7322	urn:oid:2.16.840.1.113883.3.88.12.80.68 (Problem Status)

1. **SHALL** contain exactly one [1..1] **@classCode="OBS"** Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7318).
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7319).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7317) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.28"** (CONF:1098-10490).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-06-09"** (CONF:1098-32576).

4. **SHALL** contain exactly one [1..1] **code** (CONF:1098-7320).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="33999-4" Status (CONF:1098-19131).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1098-32155).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7321).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19087).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD", where the code **SHALL** be selected from ValueSet [Problem Status](#) urn:oid:2.16.840.1.113883.3.88.12.80.68 **DYNAMIC** (CONF:1098-7322).

Table 61: Problem Status

Value Set: Problem Status urn:oid:2.16.840.1.113883.3.88.12.80.68 A value set of SNOMED-CT codes reflecting state of existence. Value Set Source: https://vsac.nlm.nih.gov			
Code	Code System	Code System OID	Print Name
55561003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Active
73425007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Inactive
413322009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Resolved

4.4 Assessment Scale Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.69 (open)]

Table 62: Assessment Scale Observation Contexts

Contained By:	Contains:
	Assessment Scale Supporting Observation

An assessment scale is a collection of observations that together yield a summary evaluation of a particular condition. Examples include the Braden Scale (assesses pressure ulcer risk), APACHE Score (estimates mortality in critically ill patients), Mini-Mental Status Exam (assesses cognitive function), APGAR Score (assesses the health of a newborn), and Glasgow Coma Scale (assesses coma and impaired consciousness).

Table 63: Assessment Scale Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.69)					
@classCode	1..1	SHALL		81-14434	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		81-14435	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		81-14436	
@root	1..1	SHALL		81-14437	2.16.840.1.113883.10.20.22.4.69
id	1..*	SHALL		81-14438	
code	1..1	SHALL		81-14439	
derivationExpr	0..1	MAY		81-14637	
statusCode	1..1	SHALL		81-14444	
@code	1..1	SHALL		81-19088	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		81-14445	
value	1..1	SHALL		81-14450	
interpretationCode	0..*	MAY		81-14459	
translation	0..*	MAY		81-14888	
author	0..*	MAY		81-14460	
entryRelationship	0..*	SHOULD		81-14451	
@typeCode	1..1	SHALL		81-16741	COMP
observation	1..1	SHALL		81-16742	Assessment Scale Supporting Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.86)
referenceRange	0..*	MAY		81-16799	
observationRange	1..1	SHALL		81-16800	
text	0..1	SHOULD		81-16801	
reference	0..1	SHOULD		81-	

		D		16802	
@value	0..1	MAY		81-16803	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-14434).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:81-14435).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-14436) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.69" (CONF:81-14437).
4. **SHALL** contain at least one [1..*] **id** (CONF:81-14438).
5. **SHALL** contain exactly one [1..1] **code** (CONF:81-14439).
 - a. **SHOULD** be from LOINC (CodeSystem: 2.16.840.1.113883.6.1) or SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96) identifying the assessment scale (CONF:81-14440).

Such derivation expression can contain a text calculation of how the components total up to the summed score

6. **MAY** contain zero or one [0..1] **derivationExpr** (CONF:81-14637).
7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:81-14444).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:81-19088).

Represents clinically effective time of the measurement, which may be when the measurement was performed (e.g., a BP measurement), or may be when sample was taken (and measured some time afterwards)

8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:81-14445).
9. **SHALL** contain exactly one [1..1] **value** (CONF:81-14450).
10. **MAY** contain zero or more [0..*] **interpretationCode** (CONF:81-14459).
 - a. The interpretationCode, if present, **MAY** contain zero or more [0..*] **translation** (CONF:81-14888).
11. **MAY** contain zero or more [0..*] **author** (CONF:81-14460).
12. **SHOULD** contain zero or more [0..*] **entryRelationship** (CONF:81-14451) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="COMP" has component (CONF:81-16741).
 - b. **SHALL** contain exactly one [1..1] [Assessment Scale Supporting Observation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.86) (CONF:81-16742).

The referenceRange/observationRange/text, if present, **MAY** contain a description of the scale (e.g., for a Pain Scale 1 to 10: 1 to 3 = little pain, 4 to 7= moderate pain, 8 to 10 = severe pain)

13. **MAY** contain zero or more [0..*] **referenceRange** (CONF:81-16799).
 - a. The referenceRange, if present, **SHALL** contain exactly one [1..1] **observationRange** (CONF:81-16800).

The text may contain a description of the scale (e.g., for a Pain Scale 1 to 10: 1 to 3 = little pain, 4 to 7= moderate pain, 8 to 10 = severe pain)

- i. This observationRange **SHOULD** contain zero or one [0..1] **text** (CONF:81-16801).
 1. The text, if present, **SHOULD** contain zero or one [0..1] **reference** (CONF:81-16802).
 - a. The reference, if present, **MAY** contain zero or one [0..1] **@value** (CONF:81-16803).
 - i. This reference/@value **SHALL** begin with a '#' and **SHALL** point to its corresponding narrative (using the approach defined in CDA Release 2, section 4.3.5.1) (CONF:81-16804).

Figure 29: Assessment Scale Observation Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.69"/>
  <id root="c6b5a04b-2bf4-49d1-8336-636a3813df0b"/>
  <code code="54614-3"
    displayName="Brief Interview for Mental Status"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"/>
  <derivationExpr>Text description of the calculation</derivationExpr>
  <statusCode code="completed"/>
  <effectiveTime value="20120214"/>
  <!-- Summed score of the component values -->
  <value xsi:type="INT" value="7"/>
  <entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.86"/>
      . . .
    </observation>
  </entryRelationship>
</observation>
```

4.4.1 Risk Category Assessment (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.69:2014-12-01 (open)]

Table 64: Risk Category Assessment (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Risk Category Assessment.

Risk category assessments include tools and calculators that suggest vulnerabilities for any given patient. Distinct from functional status, risk categorization uses findings, observations, results, and sometimes judgments and patient-generated information for use within clinical care algorithms, clinical decision support, and severity analysis. A time and date stamp is required. Examples: Braden Scale for Predicting Pressure Sore Risk, Morse Fall Risk Scale, Pneumonia Severity Index. If there is a result, it is recorded in value.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 65: Risk Category Assessment (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.69:2014-12-01)					
@classCode	1..1	SHALL		1140-28104	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-28105	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28106	
templateId	1..1	SHALL		1140-12496	
@root	1..1	SHALL		1140-12497	2.16.840.1.113883.10.20.24.3.69
@extension	1..1	SHALL		1140-27299	2014-12-01
code	1..1	SHALL		1140-27660	
@sdtc:valueSet	1..1	SHALL		1140-27661	
entryRelationship	0..1	MAY		1140-12503	
@typeCode	1..1	SHALL		1140-12504	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27297	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12506	
@typeCode	1..1	SHALL		1140-12507	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27298	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

1. Conforms to [Assessment Scale Observation](#) template (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.69).
2. **SHALL** contain exactly one [1..1] **@classCode="OBS"** Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28104).
3. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28105).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28106).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12496) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.69"** (CONF:1140-12497).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27299).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27660).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27661).
7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12503) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** has reason, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12504).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27297).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12506) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** has reason, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12507).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27298).

Figure 30: Risk Category Assessment (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Assessment Scale Observation -->
  <templateId root="2.16.840.1.113883.10.20.22.4.69" />
  <!-- Risk Category Assessment (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.69"
    extension="2014-12-01" />
  <id root="30c11cf6-ba8d-4bbd-8430-43ee3c82ac37" />
  <!-- Assessment -->
  <code code="71960-9"
    displayName="PROMIS-29 Physical function score"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <statusCode code="completed" />

  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20110101" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20111231" />
  </effectiveTime>

  <!-- QDM Attribute: Result -->
  <value xsi:type="INT" value="7" />
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.5 Assessment Scale Supporting Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.86 (open)]

Table 66: Assessment Scale Supporting Observation Contexts

Contained By:	Contains:
Assessment Scale Observation (optional)	

An Assessment Scale Supporting Observation represents the components of a scale used in an Assessment Scale Observation. The individual parts that make up the component may be a group of cognitive or functional status observations.

Table 67: Assessment Scale Supporting Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.86)					
@classCode	1..1	SHALL		81-16715	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		81-16716	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		81-16722	
@root	1..1	SHALL		81-16723	2.16.840.1.113883.10.20.22.4.86
id	1..*	SHALL		81-16724	
code	1..1	SHALL		81-19178	
@code	1..1	SHALL		81-19179	
statusCode	1..1	SHALL		81-16720	
@code	1..1	SHALL		81-19089	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
value	1..*	SHALL		81-16754	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-16715).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:81-16716).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-16722) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.86" (CONF:81-16723).
4. **SHALL** contain at least one [1..*] **id** (CONF:81-16724).
5. **SHALL** contain exactly one [1..1] **code** (CONF:81-19178).
 - a. This code **SHALL** contain exactly one [1..1] **@code** (CONF:81-19179).
 - i. Such that the **@code** **SHALL** be from LOINC (CodeSystem: 2.16.840.1.113883.6.1) or SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96) and represents components of the scale (CONF:81-19180).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:81-16720).

- a. This statusCode **SHALL** contain exactly one [1..1] @code="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:81-19089).
7. **SHALL** contain at least one [1..*] value (CONF:81-16754).
 - a. If xsi:type="CD", **MAY** have a translation code to further specify the source if the instrument has an applicable code system and value set for the integer (CONF:14639) (CONF:81-16755).

Figure 31: Assessment Scale Supporting Observation Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.86"/>
  <id root="f4dce790-8328-11db-9fe1-0800200c9a44"/>
  <code code="248240001" displayName="motor response"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  <statusCode code="completed"/>
  <value xsi:type="INT" value="3"/>
</observation>
```

4.6 Communication from Patient to Provider (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.2:2014-12-01 (open)]

Table 68: Communication from Patient to Provider (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Communication from Patient to Provider.

Communication from Patient to Provider is communication initiated by the patient and received by the provider. A time/date stamp is required.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 69: Communication from Patient to Provider (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.2:2014-12-01)					
@classCode	1..1	SHALL		1140-11484	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-11485	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28041	
templateId	1..1	SHALL		1140-11486	
@root	1..1	SHALL		1140-11487	2.16.840.1.113883.10.20.24.3.2
@extension	1..1	SHALL		1140-27275	2014-12-01
id	1..*	SHALL		1140-11619	
code	1..1	SHALL		1140-26946	
@sdtc:valueSet	1..1	SHALL		1140-27578	
statusCode	1..1	SHALL		1140-11620	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-11622	
low	1..1	SHALL		1140-27543	
high	0..1	MAY		1140-27544	
participant	1..1	SHALL		1140-11631	
@typeCode	1..1	SHALL		1140-11632	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = IRCP
participantRole	1..1	SHALL		1140-11633	
@classCode	1..1	SHALL		1140-12098	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = ASSIGNED
code	1..1	SHALL		1140-11651	
@code	1..1	SHALL		1140-27272	158965000
@codeSystem	1..1	SHALL		1140-26945	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
participant	1..1	SHALL		1140-11835	

@typeCode	1..1	SHALL		1140-12099	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = AUT
participantRole	1..1	SHALL		1140-11836	
@classCode	1..1	SHALL		1140-12100	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = PAT
entryRelationship	0..1	MAY		1140-11638	
@typeCode	1..1	SHALL		1140-27276	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27273	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11640	
@typeCode	1..1	SHALL		1140-27277	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27274	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.24.3.84:2014-12-01)

1. **SHALL** contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11484).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11485).
3. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28041).
4. **SHALL** contain exactly one [1..1] templateId (CONF:1140-11486) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.2" (CONF:1140-11487).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27275).
5. **SHALL** contain at least one [1..*] id (CONF:1140-11619).
6. **SHALL** contain exactly one [1..1] code (CONF:1140-26946).
 - a. This code **SHALL** contain exactly one [1..1] @sdctc:valueSet (CONF:1140-27578).
7. **SHALL** contain exactly one [1..1] statusCode="completed", which **SHALL** be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14) (CONF:1140-11620).
8. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1140-11622).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1140-27543).
 - b. This effectiveTime **MAY** contain zero or one [0..1] high (CONF:1140-27544).
9. **SHALL** contain exactly one [1..1] participant (CONF:1140-11631) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="IRCP" information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11632).
 - b. **SHALL** contain exactly one [1..1] participantRole (CONF:1140-11633).

- i. This participantRole **SHALL** contain exactly one [1..1] @classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12098).
 - ii. This participantRole **SHALL** contain exactly one [1..1] code (CONF:1140-11651).
 - 1. This code **SHALL** contain exactly one [1..1] @code="158965000" Medical practitioner (CONF:1140-27272).
 - 2. This code **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-26945).
- 10. **SHALL** contain exactly one [1..1] participant (CONF:1140-11835) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="AUT" author (originator) (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12099).
 - b. **SHALL** contain exactly one [1..1] participantRole (CONF:1140-11836).
 - i. This participantRole **SHALL** contain exactly one [1..1] @classCode="PAT" patient (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12100).
- 11. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-11638) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27276).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27273).
- 12. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-11640) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27277).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27274).

Figure 32: Communication from Patient to Provider (V2) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Communication from Patient to Provider (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.2"
    extension="2014-12-01" />
  <id root="2d5075da-2ffc-47a9-a350-4a24e6b052d1" />
  <code code="401270003"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="E-mail received from patient (event)"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start datetime -->
    <low value="20110101" />
    <!-- QDM Attribute: Stop datetime -->
    <high value="20111231" />
  </effectiveTime>

  <participant typeCode="AUT">
    <participantRole classCode="PAT">
      <code code="116154003"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Patient" />
    </participantRole>
  </participant>
  <participant typeCode="IRCP">
    <participantRole classCode="ASSIGNED">
      <code code="158965000"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Medical Practitioner" />
    </participantRole>
  </participant>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```

4.7 Communication from Provider to Patient (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.3:2014-12-01 (open)]

Table 70: Communication from Provider to Patient (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Communication from Provider to Patient.

Communication from Provider to Patient is the provision of any communication to the patient (e.g., results, findings, plans for care, medical advice, instructions, educational resources, appointments, result).

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 71: Communication from Provider to Patient (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.3:2014-12-01)					
@classCode	1..1	SHALL		1140-11840	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-11841	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28042	
templateId	1..1	SHALL		1140-11842	
@root	1..1	SHALL		1140-11843	2.16.840.1.113883.10.20.24.3.3
@extension	1..1	SHALL		1140-27280	2014-12-01
id	1..*	SHALL		1140-11845	
code	1..1	SHALL		1140-26947	
@sdtc:valueSet	1..1	SHALL		1140-27579	
statusCode	1..1	SHALL		1140-11846	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-11847	
low	1..1	SHALL		1140-27545	
high	0..1	MAY		1140-27546	
participant	1..1	SHALL		1140-11850	
@typeCode	1..1	SHALL		1140-11851	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = AUT
participantRole	1..1	SHALL		1140-11852	
@classCode	1..1	SHALL		1140-12101	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = ASSIGNED
code	1..1	SHALL		1140-11853	
@code	1..1	SHALL		1140-26948	158965000
@codeSystem	1..1	SHALL		1140-26949	2.16.840.1.113883.6.96
participant	1..1	SHALL		1140-11856	

@typeCode	1..1	SHALL		1140-11857	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = IRCP
participantRole	1..1	SHALL		1140-11858	
@classCode	1..1	SHALL		1140-12102	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = PAT
entryRelationship	0..1	MAY		1140-11848	
@typeCode	1..1	SHALL		1140-27281	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27278	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11854	
@typeCode	1..1	SHALL		1140-27282	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27279	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

1. **SHALL** contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11840).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11841).
3. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28042).
4. **SHALL** contain exactly one [1..1] templateId (CONF:1140-11842) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.3" (CONF:1140-11843).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27280).
5. **SHALL** contain at least one [1..*] id (CONF:1140-11845).
6. **SHALL** contain exactly one [1..1] code (CONF:1140-26947).
 - a. This code **SHALL** contain exactly one [1..1] @sdct:valueSet (CONF:1140-27579).
7. **SHALL** contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-11846).
8. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1140-11847).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1140-27545).
 - b. This effectiveTime **MAY** contain zero or one [0..1] high (CONF:1140-27546).
9. **SHALL** contain exactly one [1..1] participant (CONF:1140-11850) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="AUT" author (originator) (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11851).
 - b. **SHALL** contain exactly one [1..1] participantRole (CONF:1140-11852).

- i. This participantRole **SHALL** contain exactly one [1..1] @classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12101).
 - ii. This participantRole **SHALL** contain exactly one [1..1] code (CONF:1140-11853).
 - 1. This code **SHALL** contain exactly one [1..1] @code="158965000" Medical practitioner (CONF:1140-26948).
 - 2. This code **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.96" (CONF:1140-26949).
- 10. **SHALL** contain exactly one [1..1] participant (CONF:1140-11856) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="IRCP" information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11857).
 - b. **SHALL** contain exactly one [1..1] participantRole (CONF:1140-11858).
 - i. This participantRole **SHALL** contain exactly one [1..1] @classCode="PAT" patient (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12102).
- 11. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-11848) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27281).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27278).
- 12. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-11854) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27282).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27279).

Figure 33: Communication from Provider to Patient (V2) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Communication from Provider to Patient (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.3"
    extension="2014-12-01" />
  <id root="e4f3f0f7-cc24-4f2a-8c5f-097dde3d7afa" />

  <code code="428521000124106"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Patient informed - arrange follow-up care (situation)"
    sdct:valueSet="{ $QDMElementValueSetOID }" />

  <statusCode code="completed" />

  <effectiveTime>
    <!-- QDM Attribute: Start datetime -->
    <low value="20110101" />
    <!-- QDM Attribute: Stop datetime -->
    <high value="20111231" />
  </effectiveTime>

  <participant typeCode="AUT">
    <participantRole classCode="ASSIGNED">
      <code code="158965000"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Medical Practitioner" />
    </participantRole>
  </participant>

  <participant typeCode="IRCP">
    <participantRole classCode="PAT" />
  </participant>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```


4.8 Communication from Provider to Provider (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.4:2014-12-01 (open)]

Table 72: Communication from Provider to Provider (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Communication from Provider to Provider.

Communication from Provider to Provider is the provision of any communication from one clinician to another regarding findings, assessments, plans of care, consultative advice, instructions, educational resources, etc.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 73: Communication from Provider to Provider (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.4:2014-12-01)					
@classCode	1..1	SHALL		1140-11816	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-11817	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28043	
templateId	1..1	SHALL		1140-11818	
@root	1..1	SHALL		1140-11819	2.16.840.1.113883.10.20.24.3.4
@extension	1..1	SHALL		1140-27285	2014-12-01
id	1..*	SHALL		1140-11821	
code	1..1	SHALL		1140-26950	
@sdtc:valueSet	1..1	SHALL		1140-27581	
statusCode	1..1	SHALL		1140-11822	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-11823	
low	1..1	SHALL		1140-27547	
high	0..1	MAY		1140-27548	
participant	1..1	SHALL		1140-11827	
@typeCode	1..1	SHALL		1140-11828	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = IRCP
participantRole	1..1	SHALL		1140-11829	
@classCode	1..1	SHALL		1140-12096	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = ASSIGNED
code	1..1	SHALL		1140-11830	
@code	1..1	SHALL		1140-26951	158965000
@codeSystem	1..1	SHALL		1140-26952	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
participant	1..1	SHALL		1140-11837	

@typeCode	1..1	SHALL		1140-11838	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = AUT
participantRole	1..1	SHALL		1140-11839	
@classCode	1..1	SHALL		1140-12097	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = ASSIGNED
code	1..1	SHALL		1140-12103	
@code	1..1	SHALL		1140-26953	158965000
@codeSystem	1..1	SHALL		1140-26954	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
entryRelationship	0..1	MAY		1140-11831	
@typeCode	1..1	SHALL		1140-27286	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27283	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11833	
@typeCode	1..1	SHALL		1140-27287	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27284	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.84:2014-12-01)

1. **SHALL** contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11816).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11817).
3. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28043).
4. **SHALL** contain exactly one [1..1] templateId (CONF:1140-11818) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.4" (CONF:1140-11819).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27285).
5. **SHALL** contain at least one [1..*] id (CONF:1140-11821).
6. **SHALL** contain exactly one [1..1] code (CONF:1140-26950).
 - a. This code **SHALL** contain exactly one [1..1] @sdct:valueSet (CONF:1140-27581).
7. **SHALL** contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-11822).
8. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1140-11823).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1140-27547).

- b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-27548).
- 9. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-11827) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="IRCP" information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11828).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-11829).
 - i. This participantRole **SHALL** contain exactly one [1..1] @classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12096).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:1140-11830).
 - 1. This code **SHALL** contain exactly one [1..1] @code="158965000" Medical practitioner (CONF:1140-26951).
 - 2. This code **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-26952).
- 10. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-11837) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="AUT" author (originator) (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-11838).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-11839).
 - i. This participantRole **SHALL** contain exactly one [1..1] @classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12097).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:1140-12103).
 - 1. This code **SHALL** contain exactly one [1..1] @code="158965000" Medical practitioner (CONF:1140-26953).
 - 2. This code **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-26954).
- 11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11831) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27286).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27283).
- 12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11833) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27287).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27284).

Figure 34: Communication from Provider to Provider (V2) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Communication from Provider to Provider (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.4"
    extension="2014-12-01" />
  <id root="2d5075da-2ffc-47a9-a350-4a24e6b052d1" />

  <code code="371530004"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Clinical consultation report (record artifact)"
    sdtc:valueSet="{ $QDMElementValueSetOID }"/>

  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start datetime -->
    <low value="20110101" />
    <!-- QDM Attribute: Stop datetime -->
    <high value="20111231" />
  </effectiveTime>

  <participant typeCode="AUT">
    <participantRole classCode="ASSIGNED">
      <code code="158965000"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Medical Practitioner"/>
    </participantRole>
  </participant>

  <participant typeCode="IRCP">
    <participantRole classCode="ASSIGNED">
      <code code="158965000"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Medical Practitioner"/>
    </participantRole>
  </participant>

  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
```

</act>

4.9 Deceased Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.79:2014-06-09
(open)]

Table 74: Deceased Observation (V2) Contexts

Contained By:	Contains:
	Problem Observation (V2)

This template represents the observation that a patient has died. It also represents the cause of death, indicated by an entryRelationship type of 'CAUS'. This template allows for more specific representation of data than is available with the use of dischargeDispositionCode.

Table 75: Deceased Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.79:2014-06-09)					
@classCode	1..1	SHALL		1098-14851	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-14852	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-14871	
@root	1..1	SHALL		1098-14872	2.16.840.1.113883.10.20.22.4.79
@extension	1..1	SHALL		1098-32541	2014-06-09
id	1..*	SHALL		1098-14873	
code	1..1	SHALL		1098-14853	
@code	1..1	SHALL		1098-19135	ASSERTION
@codeSystem	1..1	SHALL		1098-32158	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		1098-14854	
@code	1..1	SHALL		1098-19095	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1098-14855	
low	1..1	SHALL		1098-14874	
value	1..1	SHALL	CD	1098-14857	
@code	1..1	SHALL		1098-15142	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 419099009
entryRelationship	0..1	SHOULD		1098-14868	
@typeCode	1..1	SHALL		1098-14875	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = CAUS
observation	1..1	SHALL		1098-14870	Problem Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)

1. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-14851).

2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-14852).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-14871) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.79" (CONF:1098-14872).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32541).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-14873).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-14853).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="ASSERTION" Assertion (CONF:1098-19135).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1098-32158).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-14854).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19095).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-14855).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1098-14874).
8. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1098-14857).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="419099009" Dead (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 **STATIC**) (CONF:1098-15142).
9. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:1098-14868) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CAUS" Is etiology for (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-14875).
 - b. **SHALL** contain exactly one [1..1] Problem Observation (V2) (**identifier**: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09) (CONF:1098-14870).

Figure 35: Deceased Observation (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.79" extension="2014-06-09"/>
  <id root="6898fae0-5c8a-11db-b0de-0800200c9a77" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <low value="20100303" />
  </effectiveTime>
  <value xsi:type="CD" code="419099009" codeSystem="2.16.840.1.113883.6.96"
displayName="Dead" />
  <entry typeCode="DRIV">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.4" />
      ...
    </observation>
  </entry>
</observation>
```

4.9.1 Patient Characteristic Expired (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.54:2014-12-01
(open)]

Table 76: Patient Characteristic Expired (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	

This template represents the QDM datatype: Patient Characteristic, Expired.

This datatype indicates that a patient has expired. A date/time stamp is required.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 77: Patient Characteristic Expired (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.54:2014-12-01)					
@classCode	1..1	SHALL		1140-28087	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-28088	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28089	
templateId	1..1	SHALL		1140-12540	
@root	1..1	SHALL		1140-12541	2.16.840.1.113883.10.20.24.3.54
@extension	1..1	SHALL		1140-27014	2014-12-01

1. Conforms to [Deceased Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.79:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28087).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28088).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28089).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12540) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.54" (CONF:1140-12541).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27014).

Figure 36: Patient Characteristic Expired (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- C-CDA R2 Deceased Observation (V2) templateId -->
  <templateId root="2.16.840.1.113883.10.20.22.4.79" extension="2014-06-09" />
  <!-- Patient Characteristic Expired (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.54" extension="2014-12-01" />
  <id root="f3d6fd73-b2c0-4274-bfd2-a485957734db" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
    codeSystemName="HL7ActCode" />
  <statusCode code="completed" />
  <!-- QDM Attributes: Date and Time -->
  <effectiveTime>
    <low value="201101011030" />
  </effectiveTime>
  <value xsi:type="CD" code="419099009" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="Dead" />
  <!-- QDM Attribute: Cause -->
  <entryRelationship typeCode="CAUS" negationInd="false">
    <observation classCode="OBS" moodCode="EVN">
      <!-- C-CDA R2 Problem Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
      <id root="d11275e7-67ae-11db-bd13-0800200c9a66" />
      <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
        codeSystemName="HL7ActCode" />
      <statusCode code="completed" />
      <effectiveTime>
        <low value="20101215" />
      </effectiveTime>
      <value xsi:type="CD" code="56717001" codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT" displayName="Tuberculosis" />
    </observation>
  </entryRelationship>
</observation>
```

4.10 Discharge Medication - Active Medication (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.105:2014-12-01
(open)]

Table 78: Discharge Medication - Active Medication (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Medication Active (V2)

This template represents the QDM datatype: Medication, Discharge.

This template represents an active medication that the patient is taking at the time of discharge.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 79: Discharge Medication - Active Medication (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.105:2014-12-01)					
@classCode	1..1	SHALL		1140-16550	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-16551	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28065	
templateId	1..1	SHALL		1140-26956	
@root	1..1	SHALL		1140-26957	2.16.840.1.113883.10.20.24.3.105
@extension	1..1	SHALL		1140-27037	2014-12-01
id	1..*	SHALL		1140-26955	
code	1..1	SHALL		1140-16552	
@code	1..1	SHALL		1140-28140	10183-2
@codeSystem	1..1	SHALL		1140-28141	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
entryRelationship	1..1	SHALL		1140-16553	
@typeCode	1..1	SHALL		1140-16554	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
substanceAdministration	1..1	SHALL		1140-16555	Medication Active (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-16550).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-16551).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28065).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-26956) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.105" (CONF:1140-26957).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27037).
5. **SHALL** contain at least one [1..*] **id** (CONF:1140-26955).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-16552).

- a. This code **SHALL** contain exactly one [1..1] @code="10183-2" Discharge medication (CONF:1140-28140).
 - b. This code **SHALL** contain exactly one [1..1]
@codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC
urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28141).
7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-16553) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="SUBJ" (CodeSystem:
HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-
16554).
 - b. **SHALL** contain exactly one [1..1] Medication Active (V2) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01) (CONF:1140-
16555).

Figure 37: Discharge Medication - Active Medication (V2) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Discharge Medication - Active Medication -->
  <templateId root="2.16.840.1.113883.10.20.24.3.105" extension="2014-12-01" />
  <id root="60f33340-591f-4459-9fa2-1c93e014a6e2" />
  <code code="10183-2" displayName="Discharge medication"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
  <entryRelationship typeCode="SUBJ">
    <substanceAdministration classCode="SBADM" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Medication Activity (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.16" extension="2014-06-09" />
      <!-- Medication Active (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.41" extension="2014-12-01" />
      <id root="c0ea7bf3-50e7-4e7a-83a3-e5a9ccbb8541" />
      <statusCode code="active" />
      <effectiveTime xsi:type="IVL_TS">
        <!-- QDM Attribute: Start datetime -->
        <low value="20110301" />
        <!-- QDM Attribute: Stop datetime -->
        <high value="20120301" />
      </effectiveTime>
      <!-- QDM Attribute: Frequency -->
      <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true" operator="A">
        <period value="6" unit="h" />
      </effectiveTime>
      <!-- QDM Attribute: Route -->
      <routeCode code="C38288" codeSystem="2.16.840.1.113883.3.26.1.1"
        codeSystemName="NCI Thesaurus" displayName="ORAL"
        sdct:valueSet="{QDMElementValueSetOID}" />
      <!-- QDM Attribute: Dose -->
      <doseQuantity value="1" />
      <consumable>
        <manufacturedProduct classCode="MANU">
          <!-- Conforms to C-CDA R2 Medication Information (V2) -->
          <templateId root="2.16.840.1.113883.10.20.22.4.23"
            extension="2014-06-09" />
          <id root="37bfe02a-3e97-4bd6-9197-bbd0ed0de79e" />
          <manufacturedMaterial>
            <code code="105152" codeSystem="2.16.840.1.113883.6.88"
              codeSystemName="RxNorm"
              displayName="Amoxicillin 60 MG/ML Oral Suspension"
              sdct:valueSet="{QDMElementValueSetOID}" />
          </manufacturedMaterial>
        </manufacturedProduct>
      </consumable>
      <!-- QDM Attribute: Patient Preference -->
      <entryRelationship typeCode="RSON">
        <observation classCode="OBS" moodCode="EVN">
          <templateId root="2.16.840.1.113883.10.20.24.3.83"
            extension="2014-12-01" />
          ...
        </observation>
      </entryRelationship>
      <!-- QDM Attribute: Provider Preference -->
      <entryRelationship typeCode="RSON">
        <observation classCode="OBS" moodCode="EVN">
```

```

        <templateId root="2.16.840.1.113883.10.20.24.3.84"
          extension="2014-12-01" />
        ...
      </observation>
    </entryRelationship>
  </substanceAdministration>
</entryRelationship>
</act>

```

4.11 Drug Monitoring Act

[act: identifier urn:oid:2.16.840.1.113883.10.20.22.4.123 (open)]

Table 80: Drug Monitoring Act Contexts

Contained By:	Contains:
Medication Activity (V2) (optional)	US Realm Patient Name (PTN.US.FIELDDED)

This template represents the act of monitoring the patient's medication and includes a participation to record the person responsible for monitoring the medication. The prescriber of the medication is not necessarily the same person or persons monitoring the drug. The effectiveTime indicates the time when the activity is intended to take place.

For example, a cardiologist may prescribe a patient Warfarin. The patient's primary care provider may monitor the patient's INR and adjust the dosing of the Warfarin based on these lab results. Here the person designated to monitor the drug is the primary care provider.

Table 81: Drug Monitoring Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.123)					
@classCode	1..1	SHALL		1098-30823	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-28656	INT
templateId	1..1	SHALL		1098-28657	
@root	1..1	SHALL		1098-28658	2.16.840.1.113883.10.20.22.4.123
id	1..*	SHALL		1098-31920	
code	1..1	SHALL		1098-28660	
@code	1..1	SHALL		1098-30818	395170001
@codeSystem	1..1	SHALL		1098-30819	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
statusCode	1..1	SHALL		1098-31921	
@code	1..1	SHALL		1098-32358	urn:oid:2.16.840.1.113883.1.11.159331 (ActStatus)
effectiveTime	1..1	SHALL		1098-31922	
participant	1..*	SHALL		1098-28661	
@typeCode	1..1	SHALL		1098-28663	RESP
participantRole	1..1	SHALL		1098-28662	
@classCode	1..1	SHALL		1098-28664	ASSIGNED
id	1..*	SHALL		1098-28665	
playingEntity	1..1	SHALL		1098-28667	
@classCode	1..1	SHALL		1098-28668	PSN
name	1..1	SHALL		1098-28669	US Realm Patient Name (PTN.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1)

1. **SHALL** contain exactly one [1..1] **@classCode="ACT"** act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-30823).
2. **SHALL** contain exactly one [1..1] **@moodCode="INT"** (CONF:1098-28656).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-28657) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.123"** (CONF:1098-28658).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-31920).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-28660).
 - a. This code **SHALL** contain exactly one [1..1] **@code="395170001"** medication monitoring (regime/therapy) (CONF:1098-30818).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.6.96"** (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1098-30819).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-31921).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [ActStatus](#) urn:oid:2.16.840.1.113883.1.11.159331 **DYNAMIC** (CONF:1098-32358).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-31922).
8. **SHALL** contain at least one [1..*] **participant** (CONF:1098-28661) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RESP"** (CONF:1098-28663).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1098-28662).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode="ASSIGNED"** (CONF:1098-28664).
 - ii. This participantRole **SHALL** contain at least one [1..*] **id** (CONF:1098-28665).
 - iii. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:1098-28667).
 1. This playingEntity **SHALL** contain exactly one [1..1] **@classCode="PSN"** (CONF:1098-28668).
 2. This playingEntity **SHALL** contain exactly one [1..1] **[US Realm Patient Name \(PTN.US.FIELDDED\)](#)** (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1) (CONF:1098-28669).

Table 82: ActStatus

Value Set: ActStatus urn:oid:2.16.840.1.113883.1.11.159331 Contains the names (codes) for each of the states in the state-machine of the RIM Act class. Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
normal	ActStatus	urn:oid:2.16.840.1.113883.5.14	normal
aborted	ActStatus	urn:oid:2.16.840.1.113883.5.14	aborted
active	ActStatus	urn:oid:2.16.840.1.113883.5.14	active
cancelled	ActStatus	urn:oid:2.16.840.1.113883.5.14	cancelled
completed	ActStatus	urn:oid:2.16.840.1.113883.5.14	completed
held	ActStatus	urn:oid:2.16.840.1.113883.5.14	held
new	ActStatus	urn:oid:2.16.840.1.113883.5.14	new
suspended	ActStatus	urn:oid:2.16.840.1.113883.5.14	suspended
nullified	ActStatus	urn:oid:2.16.840.1.113883.5.14	nullified
obsolete	ActStatus	urn:oid:2.16.840.1.113883.5.14	obsolete

Figure 38: Drug Monitoring Act Example

```
<entryRelationship typeCode="COMP">
  <!-- **DRUG MONITORING ACT **-->
  <act classCode="ACT" moodCode="INT">
    <templateId root="2.16.840.1.113883.10.20.22.4.123" />
    <id root="2a620155-9d11-439e-92b3-5d9815ff4ee8" />
    <code code="395170001" displayName="medication monitoring (regime/therapy"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" />
    <statusCode code="completed" />
    <effectiveTime xsi:type="IVL_TS">
      <low value="20130615" />
      <high value="20130715" />
    </effectiveTime>
    <participant typeCode="RESP">
      <participantRole classCode="ASSIGNED">
        <id root="2a620155-9d11-439e-92b3-5d9815ff4ee5" />
        <playingEntity classCode="PSN">
          <name>
            <given>Listener</given>
            <family>Larry</family>
            <prefix>DR</prefix>
          </name>
        </playingEntity>
      </participantRole>
    </participant>
  </act>
</entryRelationship>
```

4.12 Drug Vehicle

[participantRole: identifier urn:oid:2.16.840.1.113883.10.20.22.4.24 (open)]

Table 83: Drug Vehicle Contexts

Contained By:	Contains:
Medication Activity (V2) (optional)	

This template represents the vehicle (e.g., saline, dextrose) for administering a medication.

Table 84: Drug Vehicle Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
participantRole (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.24)					
@classCode	1..1	SHALL		81-7490	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
templateId	1..1	SHALL		81-7495	
@root	1..1	SHALL		81-10493	2.16.840.1.113883.10.20.22.4.24
code	1..1	SHALL		81-19137	
@code	1..1	SHALL		81-19138	412307009
@codeSystem	1..1	SHALL		81-26502	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
playingEntity	1..1	SHALL		81-7492	
code	1..1	SHALL		81-7493	
name	0..1	MAY		81-7494	

1. **SHALL** contain exactly one [1..1] **@classCode**="MANU" (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 **STATIC**) (CONF:81-7490).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-7495) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.24" (CONF:81-10493).
3. **SHALL** contain exactly one [1..1] **code** (CONF:81-19137).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="412307009" Drug Vehicle (CONF:81-19138).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:81-26502).
4. **SHALL** contain exactly one [1..1] **playingEntity** (CONF:81-7492).

This playingEntity/code is used to supply a coded term for the drug vehicle.

- a. This playingEntity **SHALL** contain exactly one [1..1] **code** (CONF:81-7493).
- b. This playingEntity **MAY** contain zero or one [0..1] **name** (CONF:81-7494).
 - i. This playingEntity/name **MAY** be used for the vehicle name in text, such as Normal Saline (CONF:81-10087).

Figure 39: Drug Vehicle Example

```
<participantRole classCode="MANU">
  <templateId root="2.16.840.1.113883.10.20.22.4.24"/>
  <code code="412307009" displayName="drug vehicle"
codeSystem="2.16.840.1.113883.6.96"/>
  <playingEntity classCode="MMAT">
    <code code="324049" displayName="Aerosol"
codeSystem="2.16.840.1.113883.6.88"
codeSystemName="RxNorm"/>
    <name>Aerosol</name>
  </playingEntity>
</participantRole>
```

4.13 Encounter Activity (V2)

```
[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.49:2014-06-09
(open) ]
```

Table 85: Encounter Activity (V2) Contexts

Contained By:	Contains:
	Encounter Diagnosis (V2) Indication (V2) Service Delivery Location

This clinical statement describes an interaction between a patient and clinician. Interactions may include in-person encounters, telephone conversations, and email exchanges.

Table 86: Encounter Activity (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.49:2014-06-09)					
@classCode	1..1	SHALL		1098-8710	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		1098-8711	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-8712	
@root	1..1	SHALL		1098-26353	2.16.840.1.113883.10.20.22.4.49
@extension	1..1	SHALL		1098-32546	2014-06-09
id	1..*	SHALL		1098-8713	
code	1..1	SHALL		1098-8714	urn:oid:2.16.840.1.113883.3.88.12.80.32 (EncounterTypeCode)
originalText	0..1	SHOULD		1098-8719	
reference	0..1	SHOULD		1098-15970	
@value	0..1	SHOULD		1098-15971	
translation	0..1	MAY		1098-32323	
effectiveTime	1..1	SHALL		1098-8715	
sdtc:dischargeDispositionCode	0..1	MAY		1098-32176	
performer	0..*	MAY		1098-8725	
assignedEntity	1..1	SHALL		1098-8726	
code	0..1	MAY		1098-8727	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
participant	0..*	SHOULD		1098-8738	
@typeCode	1..1	SHALL		1098-8740	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
participantRole	1..1	SHALL		1098-14903	Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32)
entryRelationship	0..*	MAY		1098-	

				8722	
@typeCode	1..1	SHALL		1098-8723	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1098-14899	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09)
entryRelationship	0..*	MAY		1098-15492	
act	1..1	SHALL		1098-15973	Encounter Diagnosis (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.80:2014-06-09)

1. **SHALL** contain exactly one [1..1] @**classCode**="ENC" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8710).
2. **SHALL** contain exactly one [1..1] @**moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-8711).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-8712) such that it
 - a. **SHALL** contain exactly one [1..1] @**root**="2.16.840.1.113883.10.20.22.4.49" (CONF:1098-26353).
 - b. **SHALL** contain exactly one [1..1] @**extension**="2014-06-09" (CONF:1098-32546).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-8713).
5. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet [EncounterTypeCode](#) urn:oid:2.16.840.1.113883.3.88.12.80.32 **DYNAMIC** (CONF:1098-8714).
 - a. This code **SHOULD** contain zero or one [0..1] **originalText** (CONF:1098-8719).
 - i. The originalText, if present, **SHOULD** contain zero or one [0..1] **reference** (CONF:1098-15970).
 1. The reference, if present, **SHOULD** contain zero or one [0..1] @**value** (CONF:1098-15971).
 - a. This reference/@value **SHALL** begin with a '#' and **SHALL** point to its corresponding narrative (using the approach defined in CDA Release 2, section 4.3.5.1) (CONF:1098-15972).

The translation may exist to map the code of EncounterTypeCode (2.16.840.1.113883.3.88.12.80.32) valueset to the code of Encounter Planned (2.16.840.1.113883.11.20.9.52) valueset.

- b. This code **MAY** contain zero or one [0..1] **translation** (CONF:1098-32323).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-8715).
7. **MAY** contain zero or one [0..1] **sdct:dischargeDispositionCode** (CONF:1098-32176).
 Note: The prefix sdct: SHALL be bound to the namespace "urn:hl7-org:sdct". The use of the namespace provides a necessary extension to CDA R2 for the use of the dischargeDispositionCode element

- a. This `sdtc:dischargeDispositionCode` **SHALL** contain exactly [1..1] `@code`, which **SHALL** be selected from ValueSet 2.16.840.1.113883.3.88.12.80.33 NUBC UB-04 FL17-Patient Status (code system 2.16.840.1.113883.6.301.5) **DYNAMIC** or, if access to NUBC is unavailable, from CodeSystem 2.16.840.1.113883.12.112 HL7 Discharge Disposition (CONF:1098-32177).
 - b. This `sdtc:dischargeDispositionCode` **SHALL** contain exactly [1..1] `@codeSystem`, which **SHALL** be either CodeSystem: NUBC 2.16.840.1.113883.6.301.5 **OR** CodeSystem: HL7 Discharge Disposition 2.16.840.1.113883.12.112 (CONF:1098-32377).
- 8. **MAY** contain zero or more [0..*] `performer` (CONF:1098-8725).
 - a. The performer, if present, **SHALL** contain exactly one [1..1] `assignedEntity` (CONF:1098-8726).
 - i. This `assignedEntity` **MAY** contain zero or one [0..1] `code`, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy \(HIPAA\)](#) `urn:oid:2.16.840.1.114222.4.11.1066` **DYNAMIC** (CONF:1098-8727).
- 9. **SHOULD** contain zero or more [0..*] `participant` (CONF:1098-8738) such that it
 - a. **SHALL** contain exactly one [1..1] `@typeCode="LOC"` Location (CodeSystem: HL7ActRelationshipType `urn:oid:2.16.840.1.113883.5.1002` **STATIC**) (CONF:1098-8740).
 - b. **SHALL** contain exactly one [1..1] [Service Delivery Location](#) (identifier: `urn:oid:2.16.840.1.113883.10.20.22.4.32`) (CONF:1098-14903).
- 10. **MAY** contain zero or more [0..*] `entryRelationship` (CONF:1098-8722) such that it
 - a. **SHALL** contain exactly one [1..1] `@typeCode="RSON"` Has Reason (CodeSystem: HL7ActRelationshipType `urn:oid:2.16.840.1.113883.5.1002` **STATIC**) (CONF:1098-8723).
 - b. **SHALL** contain exactly one [1..1] [Indication \(V2\)](#) (identifier: `urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09`) (CONF:1098-14899).
- 11. **MAY** contain zero or more [0..*] `entryRelationship` (CONF:1098-15492) such that it
 - a. **SHALL** contain exactly one [1..1] [Encounter Diagnosis \(V2\)](#) (identifier: `urn:hl7ii:2.16.840.1.113883.10.20.22.4.80:2014-06-09`) (CONF:1098-15973).

Table 87: EncounterTypeCode

Value Set: EncounterTypeCode urn:oid:2.16.840.1.113883.3.88.12.80.32 This value set includes only the codes of the Current Procedure and Terminology designated for Evaluation and Management (99200 – 99607) (subscription to AMA Required Value Set Source: http://www.amacodingonline.com/			
Code	Code System	Code System OID	Print Name
99201	CPT4	urn:oid:2.16.840.1.113883.6.12	Office or other outpatient visit (problem focused)
99202	CPT4	urn:oid:2.16.840.1.113883.6.12	Office or other outpatient visit (expanded problem (expanded)
99203	CPT4	urn:oid:2.16.840.1.113883.6.12	Office or other outpatient visit (detailed)
99204	CPT4	urn:oid:2.16.840.1.113883.6.12	Office or other outpatient visit (comprehensive, (comprehensive - moderate)
99205	CPT4	urn:oid:2.16.840.1.113883.6.12	Office or other outpatient visit (comprehensive, comprehensive-high)
...			

Figure 40: Encounter Activity (V2) Example

```

<encounter classCode="ENC" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2014-06-09" />
  <id root="2a620155-9d11-439e-92b3-5d9815ff4de8" />
  <code code="99213" displayName="Office outpatient visit 15 minutes"
codeSystemName="CPT-4" codeSystem="2.16.840.1.113883.6.12">
    <originalText>
      <reference value="#Encounter1" />
    </originalText>
    <translation code="AMB" codeSystem="2.16.840.1.113883.5.4" displayName="Ambulatory"
codeSystemName="HL7 ActEncounterCode" />
  </code>
  <effectiveTime value="201209271300+0500" />
  <performer>
    <assignedEntity>
      . . .
    </assignedEntity>
  </performer>
  <participant typeCode="LOC">
    <participantRole classCode="SDLOC">
      <templateId root="2.16.840.1.113883.10.20.22.4.32" />
      . . .
    </participantRole>
  </participant>
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.19" extension="2014-06-09" />
      . . .
    </observation>
  </entryRelationship>
</encounter>

```

4.13.1 Encounter Active (V2)

[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.21:2014-12-01
(open)]

Table 88: Encounter Active (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Facility Location Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Encounter, Active.

Encounter Active describes an active interaction between the patient and clinicians.

Interactions include in-person encounters, telephone conversations, and email exchanges. The statusCode is constrained to “active”.

Table 89: Encounter Active (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.21:2014-12-01)					
@classCode	1..1	SHALL		1140-27530	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		1140-27531	urn:oid:2.16.840.1.113883.5.100.1 (ActMood) = EVN
templateId	1..1	SHALL		1140-11888	
@root	1..1	SHALL		1140-11889	2.16.840.1.113883.10.20.24.3.21
@extension	1..1	SHALL		1140-26551	2014-12-01
code	1..1	SHALL		1140-27621	
@sdct:valueSet	1..1	SHALL		1140-27622	
statusCode	1..1	SHALL		1140-11895	
@code	1..1	SHALL		1140-11896	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	1..1	SHALL		1140-11898	
low	1..1	SHALL		1140-26549	
high	0..1	MAY		1140-26550	
participant	0..1	MAY		1140-13388	Facility Location (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.100)
entryRelationship	0..1	MAY		1140-11901	
@typeCode	1..1	SHALL		1140-11902	urn:oid:2.16.840.1.113883.5.100.2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27269	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11904	
@typeCode	1..1	SHALL		1140-11905	urn:oid:2.16.840.1.113883.5.100.2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27270	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

entryRelationship	0..1	MAY		1140-11907	
@typeCode	1..1	SHALL		1140-11908	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27157	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Encounter Activity \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.49:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ENC" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27530).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27531).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11888) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.21" (CONF:1140-11889).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-26551).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27621).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27622).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-11895).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-11896).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-11898).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-26549).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-26550).
8. **MAY** contain zero or one [0..1] [Facility Location](#) (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.100) (CONF:1140-13388).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11901) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11902).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27269).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11904) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11905).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27270).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11907) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11908).
- b. **SHALL** contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27157).

Figure 41: Encounter Active (V2) Example

```
<encounter classCode="ENC" moodCode="EVN">
  <!-- C-CDA R2 Encounter Activity (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.49" extension="2014-06-09" />
  <!-- Encounter Active (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.21" extension="2014-12-01" />
  <id root="2a620155-9d11-439e-92b3-5d9815ff4de8" />
  <code code="4525004" displayName="Emergency Department Visit"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <text>Encounter, Performed: Emergency Department Visit</text>
  <statusCode code="active" />
  <!-- QDM Attribute: Length of Stay (high - low) -->
  <effectiveTime>
    <!-- QDM Attribute: Admission Datetime -->
    <low value="20120329090000+0500" />
    <!-- QDM Attribute: Discharge Datetime -->
    <high value="20120330090000+0500" />
  </effectiveTime>
  <!-- QDM Attribute: Facility Location -->
  <participant typeCode="LOC">
    <!-- Facility Location template -->
    <templateId root="2.16.840.1.113883.10.20.24.3.100" />
    <time>
      <!-- QDM Attribute: Facility Location Arrival Datetime -->
      <low value="20120203" />
      <!-- QDM Attribute: Facility Location Departure Datetime -->
      <high value="20120206" />
    </time>
    <participantRole classCode="SDLOC">
      <code code="309905000" codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT" displayName="Adult Intensive Care Unit"
        sdct:valueSet="{ $QDMElementValueSetOID }" />
      <addr>
        <streetAddressLine>17 Daws Rd.</streetAddressLine>
        <city>Blue Bell</city>
        <state>MA</state>
        <postalCode>02368</postalCode>
        <country>US</country>
      </addr>
      <telecom use="WP" value="tel:(555)555-1003" />
      <playingEntity classCode="PLC">
        <name>Good Health Clinic</name>
      </playingEntity>
    </participantRole>
  </participant>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Patient Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
```

```

<observation classCode="OBS" moodCode="EVN">
  <!-- Provider Preference (V2) templateId -->
  <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
  ...
</observation>
</entryRelationship>
<!-- QDM Attribute: Reason -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</encounter>

```

4.13.2 Encounter Performed (V2)

```

[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.23:2014-12-01
(open)]

```

Table 90: Encounter Performed (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Facility Location Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Encounter, Performed.

The Encounter, Performed describes the interactions between the patient and clinicians that have been completed. Interactions include in-person encounters, telephone conversations, and email exchanges. The actStatus is constrained to “completed” and both a low and high effectiveTime are required.

Table 91: Encounter Performed (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.23:2014-12-01)					
@classCode	1..1	SHALL		1140-27532	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		1140-27533	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-11861	
@root	1..1	SHALL		1140-11862	2.16.840.1.113883.10.20.24.3.23
@extension	1..1	SHALL		1140-26552	2014-12-01
code	1..1	SHALL		1140-27624	
@sdct:valueSet	1..1	SHALL		1140-27625	
statusCode	1..1	SHALL		1140-11874	
@code	1..1	SHALL		1140-11875	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-11876	
low	1..1	SHALL		1140-11877	
high	1..1	SHALL		1140-11878	
participant	0..*	MAY		1140-13025	Facility Location (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.100)
entryRelationship	0..1	MAY		1140-11865	
@typeCode	1..1	SHALL		1140-11866	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27267	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11868	
@typeCode	1..1	SHALL		1140-11869	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27268	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

entryRelationship	0..1	MAY		1140-11871	
@typeCode	1..1	SHALL		1140-11872	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27158	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Encounter Activity \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.49:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ENC" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27532).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27533).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11861) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.23" (CONF:1140-11862).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-26552).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27624).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27625).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-11874).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-11875).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-11876).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-11877).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] **high** (CONF:1140-11878).
8. **MAY** contain zero or more [0..*] [Facility Location](#) (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.100) (CONF:1140-13025).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11865) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11866).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27267).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11868) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11869).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27268).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11871) such that it

- a. **SHALL** contain exactly one [1..1] @**typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11872).
- b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27158).

Figure 42: Encounter Performed (V2) Example

```
<encounter classCode="ENC" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Encounter Activity (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.49"
    extension="2014-06-09" />
  <!-- Encounter Performed (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.23"
    extension="2014-12-01" />
  <id root="2a620155-9d11-439e-92b3-5d9815ff4de8"/>
  <code code="99201"
    displayName="Office or other outpatient visit (problem focused)"
    codeSystem="2.16.840.1.113883.6.12"
    codeSystemName="CPT4"
    sdct:valueSet="{ $QDMElementValueSetOID }">
    <originalText>
      <reference value="#Encounter1" />
    </originalText>
  </code>
  <text>Office or other outpatient visit (problem focused)</text>
  <statusCode code="completed"/>
  <effectiveTime>
    <!-- Attribute: admission datetime (or encounter start)-->
    <low value="20120329090000+0500"/>
    <!-- Attribute: discharge datetime (or encounter end)-->
    <high value="20120329103000+0500"/>
  </effectiveTime>
  <performer>
    <assignedEntity>
      . . .
    </assignedEntity>
  </performer>
  <participant typeCode="LOC">
    <participantRole classCode="SDLOC">
      <templateId root="2.16.840.1.113883.10.20.22.4.32" />
      . . .
    </participantRole>
  </participant>

  <!-- Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01"/>
      . . .
    </observation>
  </entryRelationship>

  <!-- Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01"/>
      . . .
    </observation>
  </entryRelationship>

  <!-- Reason -->
  <entryRelationship typeCode="RSON">
```

```

    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01"/>
      ...
    </observation>
  </entryRelationship>
</encounter>

```

4.14 Encounter Diagnosis (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.80:2014-06-09 (open)]

Table 92: Encounter Diagnosis (V2) Contexts

Contained By:	Contains:
Encounter Activity (V2) (optional)	Problem Observation (V2)

This template wraps relevant problems or diagnoses at the close of a visit or that need to be followed after the visit. If the encounter is associated with a Hospital Discharge, the Hospital Discharge Diagnosis must be used. This entry requires at least one Problem Observation entry.

Table 93: Encounter Diagnosis (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.80:2014-06-09)					
@classCode	1..1	SHALL		1098-14889	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-14890	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-14895	
@root	1..1	SHALL		1098-14896	2.16.840.1.113883.10.20.22.4.80
@extension	1..1	SHALL		1098-32542	2014-06-09
code	1..1	SHALL		1098-19182	
@code	1..1	SHALL		1098-19183	29308-4
@codeSystem	1..1	SHALL		1098-32160	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
entryRelationship	1..*	SHALL		1098-14892	
@typeCode	1..1	SHALL		1098-14893	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1098-14898	Problem Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-14889).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-14890).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-14895) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.80" (CONF:1098-14896).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32542).
4. **SHALL** contain exactly one [1..1] **code** (CONF:1098-19182).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="29308-4" Diagnosis (CONF:1098-19183).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1098-32160).
5. **SHALL** contain at least one [1..*] **entryRelationship** (CONF:1098-14892) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="SUBJ" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-14893).
- b. **SHALL** contain exactly one [1..1] [Problem Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09) (CONF:1098-14898).

Figure 43: Encounter Diagnosis (V2) Example

```
<act classCode="ACT" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.80" extension="2014-06-09" />
  <code code="29308-4" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName=" DIAGNOSIS" />
  <statusCode code="active" />
  <effectiveTime>
    <low value="20903003" />
  </effectiveTime>
  <entryRelationship typeCode="SUBJ">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
      <!-- Problem Observation -->
      ...
    </observation>
  </entryRelationship>
</act>
```

4.15 Entry Reference

[act: identifier urn:oid:2.16.840.1.113883.10.20.22.4.122 (open)]

Table 94: Entry Reference Contexts

Contained By:	Contains:
Goal Observation (optional)	

This template represents the act of referencing another entry in the same CDA document instance. Its purpose is to remove the need to repeat the complete XML representation of the referred entry when relating one entry to another. This template can be used to reference many types of Act class derivations, such as encounters, observations, procedures etc., as it is often necessary when authoring CDA documents to repeatedly reference other Acts of these types. For example, in a Care Plan it is necessary to repeatedly relate Health Concerns, Goals, Interventions and Outcomes.

The id is required and must be the same id as the entry/id it is referencing. The id cannot be a null value. Act/Code is set to nullFlavor="NP" (Not Present). This means the value is not present in the message (in act/Code).

Table 95: Entry Reference Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122)					
@classCode	1..1	SHALL		1098-31485	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-31486	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-31487	
@root	1..1	SHALL		1098-31488	2.16.840.1.113883.10.20.22.4.122
id	1..*	SHALL		1098-31489	
code	1..1	SHALL		1098-31490	
@nullFlavor	1..1	SHALL		1098-31491	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = NP
statusCode	1..1	SHALL		1098-31498	
@code	0..1	MAY		1098-31499	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-31485).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-31486).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-31487) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.122" (CONF:1098-31488).

The ID must equal another entry/id in the same document instance. Application Software must be responsible for resolving the identifier back to its original object and then rendering the information in the correct place in the containing section's narrative text. The ID cannot have Null value (e.g., nullFlavor is not allowed).

4. **SHALL** contain at least one [1..*] **id** (CONF:1098-31489).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-31490).
 - a. This code **SHALL** contain exactly one [1..1] **@nullFlavor**="NP" Not Present (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:1098-31491).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-31498).
 - a. This statusCode **MAY** contain zero or one [0..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-31499).

Figure 44: Entry Reference Example

```
<!--
*****
Health Concern section
*****
-->
<act classCode="ACT" moodCode="EVN">
  <!-- Health Concern Act of a pneumonia diagnosis -->
  <templateId root="2.16.840.1.113883.10.20.22.4.132" />
  <id root="4eab0e52-dd7d-4285-99eb-72d32ddb195c" />
  <code code="75310-3" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="Health Concern" />
  <statusCode code="active" />
  <effectiveTime value="20130616" />
  <entryRelationship typeCode="REFR">
    <!-- Problem Observation (V2) -->
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
      <id root="8dfacd73-1682-4cc4-9351-e54ccea83612" />
      <code code="29308-4"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Diagnosis"/>
      <statusCode code="completed" />
      <effectiveTime>
        <!-- Date of diagnosis -->
        <low value="20130616" />
      </effectiveTime>
      <value xsi:type="CD" code="233604007"
        codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"
        displayName="Pneumonia" />
    <!-- This Entry Reference refers to a goal, intervention, actual
        outcome, or some other entry present in the Care Plan
        that the Health Concern is related to-->
    <entryRelationship typeCode="REFR">
      <act classCode="ACT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.122" />
        <!-- This ID equals the ID of the goal of a pulse
            ox greater than 92% -->
        <id root="3700b3b0-fbed-11e2-b778-0800200c9a66" />
        <!-- The code is nulled to "NP" Not Present -->
        <code nullFlavor="NP" />
        <statusCode code="completed" />
      </act>
    </entryRelationship>
  </observation>
</entryRelationship>
</act>
...
<!--
*****
Expected Outcomes/Goals section
*****
-->
...
<entry>
```



```

<!-- This is an observation about the expected outcome of a pulse ox reading
      of 92 or greater. The Id is the same as the ID as the ID of the
      pneumonia problem above -->
<observation classCode="OBS" moodCode="GOL">
  <id root="3700b3b0-fbed-11e2-b778-0800200c9a66" />
  <code code="71850-2"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Oxygen saturation [Pure mass fraction] in Capillary blood by
Oximetry"/>
  <statusCode code="active" />
  <value xsi:type="IVL_PQ">
    <low value="92" unit="%" />
  </value>
  <!-- There could be another Entry Reference here referring to the
        related health concern, actual outcome, or intervention -->
  ...

</observation>
</entry>
...

```

Figure 45: Diagnosis Reference Example

```

<!-- Show how an encounter can include a discharge diagnosis which references an
      item on the problem list using the Entry Reference template -->
<!-- Problem Section -->
<observation>
  <id root="1234567" />
  <code code="123" codeSystem="1.2.3" displayName="asthma" />
</observation>
<!-- Encounter Section -->
<encounter>
  <entryRelationship typeCode="COMP">
    <act>
      <code code="145" codeSystem="4.5.6" displayName="discharge diagnosis" />
      <templateId root="2.16.840.1.113883.10.20.22.4.33" extension="2014-06-09" />
      <!-- this is for illustrative purposes only. In this particular
            case, the template requires a nested Problem
            Observation (V2). In the Health Concern template,
            we'd need a constraint that says it's allowable to
            include the Entry Reference template. -->
      <entryRelationship typeCode="SUBJ">
        <act classCode="ACT" moodCode="XXX">
          <templateId root="2.16.840.1.113883.10.20.22.4.122" />
          <id root="1234567" />
          <code nullFlavor="NP" />
        </act>
      </entryRelationship>
    </act>
  </entryRelationship>
</encounter>

```

4.16 External Document Reference

```
[externalDocument: identifier
urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09 (open)]
```

Table 96: External Document Reference Contexts

Contained By:	Contains:
Goal Observation (optional)	

Where it is necessary to reference an external clinical document, the External Document Reference template can be used to reference this external document. However, if the containing document is replacing or appending to another document in the same set, that relationship is set in the header, using ClinicalDocument/relatedDocument.

Table 97: External Document Reference Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
externalDocument (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09)					
@classCode	1..1	SHALL		1098-31931	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = DOCCLIN
@moodCode	1..1	SHALL		1098-31932	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-32748	
@root	1..1	SHALL		1098-32750	2.16.840.1.113883.10.20.22.4.115
@extension	1..1	SHALL		1098-32749	2014-06-09
id	1..1	SHALL		1098-32751	
code	1..1	SHALL		1098-31933	
setId	0..1	SHOULD		1098-32752	
versionNumber	0..1	SHOULD		1098-32753	

1. **SHALL** contain exactly one [1..1] @classCode="DOCCLIN" Clinical Document (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-31931).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-31932).
3. **SHALL** contain exactly one [1..1] templateId (CONF:1098-32748) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.115" (CONF:1098-32750).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-06-09" (CONF:1098-32749).
4. **SHALL** contain exactly one [1..1] id (CONF:1098-32751).

5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-31933).
6. **SHOULD** contain zero or one [0..1] **setId** (CONF:1098-32752).
7. **SHOULD** contain zero or one [0..1] **versionNumber** (CONF:1098-32753).

Figure 46: External Document Reference Example

```
<externalDocument classCode="DOCCLIN" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.115"
    extension="2014-06-09" />
  <id root="6f1bd58b-c58f-40b7-b314-caf1294ed98b" />
  <code codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    code="57113-1"
    displayName="Referral Note" />
  <setId extension="sTT988" root="2.16.840.1.113883.19.5.99999.19" />
  <versionNumber value="1" />
</externalDocument>
```

4.17 Family History Death Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.47 (open)]

Table 98: Family History Death Observation Contexts

Contained By:	Contains:
Family History Observation [V2] (optional)	

This clinical statement records whether the family member is deceased.

Table 99: Family History Death Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.47)					
@classCode	1..1	SHALL		81-8621	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		81-8622	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		81-8623	
@root	1..1	SHALL		81-10495	2.16.840.1.113883.10.20.22.4.47
code	1..1	SHALL		81-19141	
@code	1..1	SHALL		81-19142	ASSERTION
@codeSystem	1..1	SHALL		81-26504	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		81-8625	
@code	1..1	SHALL		81-19097	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
value	1..1	SHALL	CD	81-8626	
@code	1..1	SHALL		81-26470	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 419099009

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:81-8621).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:81-8622).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-8623) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.47" (CONF:81-10495).
4. **SHALL** contain exactly one [1..1] **code** (CONF:81-19141).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="ASSERTION" Assertion (CONF:81-19142).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:81-26504).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:81-8625).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:81-19097).

6. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD" (CONF:81-8626).
 - a. This value **SHALL** contain exactly one [1..1] @code="419099009" Dead (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 **STATIC**) (CONF:81-26470).

Figure 47: Family History Death Observation Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.47"/>
  <id root="6898fae0-5c8a-11db-b0de-0800200c9a66"/>
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
  <statusCode code="completed"/>
  <value xsi:type="CD"
    code="419099009"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Dead"/>
</observation>
```

4.18 Family History Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.46:2014-06-09 (open)]

Table 100: Family History Observation (V2) Contexts

Contained By:	Contains:
Family History Organizer (V2) (required)	Age Observation Family History Death Observation

Family History Observations related to a particular family member are contained within a Family History Organizer. The effectiveTime in the Family History Observation is the biologically or clinically relevant time of the observation. The biologically or clinically relevant time is the time at which the observation holds (is effective) for the family member (the subject of the observation).

Table 101: Family History Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.46:2014-06-09)					
@classCode	1..1	SHALL		1098-8586	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-8587	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-8599	
@root	1..1	SHALL		1098-10496	2.16.840.1.113883.10.20.22.4.46
@extension	1..1	SHALL		1098-32605	2014-06-09
id	1..*	SHALL		1098-8592	
code	1..1	SHALL		1098-32427	urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 (Problem Type)
statusCode	1..1	SHALL		1098-8590	
@code	1..1	SHALL		1098-19098	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	0..1	SHOULD		1098-8593	
value	1..1	SHALL	CD	1098-8591	urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 (Problem)
entryRelationship	0..1	MAY		1098-8675	
@typeCode	1..1	SHALL		1098-8676	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = SUBJ
@inversionInd	1..1	SHALL		1098-8677	true
observation	1..1	SHALL		1098-15526	Age Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.31)
entryRelationship	0..1	MAY		1098-8678	
@typeCode	1..1	SHALL		1098-8679	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CAUS
observation	1..1	SHALL		1098-15527	Family History Death Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.47)

1. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8586).

2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-8587).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-8599) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.46" (CONF:1098-10496).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32605).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-8592).
5. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet [Problem Type](#) urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 **STATIC** 2014-09-02 (CONF:1098-32427).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-8590).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19098).
7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-8593).
8. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD", where the code **SHALL** be selected from ValueSet [Problem](#) urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 **DYNAMIC** (CONF:1098-8591).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-8675) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" Subject (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1098-8676).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd**="true" True (CONF:1098-8677).
 - c. **SHALL** contain exactly one [1..1] [Age Observation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.31) (CONF:1098-15526).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-8678) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CAUS" Causal or Contributory (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1098-8679).
 - b. **SHALL** contain exactly one [1..1] [Family History Death Observation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.47) (CONF:1098-15527).

Table 102: Problem Type

Value Set: Problem Type urn:oid:2.16.840.1.113883.3.88.12.3221.7.2			
This value set indicates the level of medical judgment used to determine the existence of a problem.			
Value Set Source: http://www.loinc.org/			
Code	Code System	Code System OID	Print Name
75326-9	LOINC	urn:oid:2.16.840.1.113883.6.1	Problem HL7.CCDAR2
75325-1	LOINC	urn:oid:2.16.840.1.113883.6.1	Symptom HL7.CCDAR2
75324-4	LOINC	urn:oid:2.16.840.1.113883.6.1	Functional performance HL7.CCDAR2
75323-6	LOINC	urn:oid:2.16.840.1.113883.6.1	Functional performance HL7.CCDAR2
75323-6	LOINC	urn:oid:2.16.840.1.113883.6.1	Condition HL7.CCDAR2
29308-4	LOINC	urn:oid:2.16.840.1.113883.6.1	Diagnosis
75322-8	LOINC	urn:oid:2.16.840.1.113883.6.1	Complaint HL7.CCDAR2
75321-0	LOINC	urn:oid:2.16.840.1.113883.6.1	Clinical finding HL7.CCDAR2
75319-4	LOINC	urn:oid:2.16.840.1.113883.6.1	Cognitive function family member HL7.CCDAR2
75319-4	LOINC	urn:oid:2.16.840.1.113883.6.1	Cognitive function family member HL7.CCDAR2
...			

Table 103: Problem

Value Set: Problem urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 A value set of SNOMED-CT codes limited to terms descending from the Clinical Findings (404684003) or Situation with Explicit Context (243796009) hierarchies. Specific URL Pending Value Set Source: http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.3221.7.4			
Code	Code System	Code System OID	Print Name
46635009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	diabetes mellitus type 1
234422006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	acute intermittent porphyria
31712002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	primary biliary cirrhosis
302002000	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	difficulty moving
15188001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	hearing loss
129851009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	alteration in bowel elimination
247472004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	hives
39579001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	anaphylaxis
274945004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	AA amyloidosis (disorder)
129851009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	alteration in comfort: pain
...			

Figure 48: Family History Observation (V2) Example

```

<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.46" extension="2014-06-09" />
  <!-- Family History Observation template -->
  <id root="d42ebf70-5c89-11db-b0de-0800200c9a66" />
  <code code="75315-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="Condition Family Member"/>
  <statusCode code="completed" />
  <effectiveTime value="1967" />
  <value xsi:type="CD" code="22298006" codeSystem="2.16.840.1.113883.6.96"
displayName="Myocardial infarction" />
  <entryRelationship typeCode="CAUS">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.47" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="SUBJ" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.31" />
      ....
    </observation>
  </entryRelationship>
</observation>

```

4.18.1 Diagnosis Family History Observation

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.112:2014-12-01 (open)]

Table 104: Diagnosis Family History Observation Contexts

Contained By:	Contains:
Diagnosis Family History (V2) (required)	Patient Preference (V2) Provider Preference (V2) Severity Observation (V2) Status

This template (along with its containing organizer template Diagnosis Family History (V2)) represents the QDM datatype: Diagnosis, Family History.

This datatype represents a problem, condition, or diagnosis experienced by a patient's family member whether existing currently or in the past. A time/date stamp is required.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 105: Diagnosis Family History Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.112:2014-12-01)					
@classCode	1..1	SHALL		1140-27685	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-27686	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28057	
templateId	1..1	SHALL		1140-27675	
@root	1..1	SHALL		1140-27681	2.16.840.1.113883.10.20.24.3.112
@extension	1..1	SHALL		1140-27682	2014-12-01
effectiveTime	1..1	SHALL		1140-27690	
low	1..1	SHALL		1140-27692	
high	0..1	MAY		1140-27693	
priorityCode	0..1	MAY		1140-27706	
value	1..1	SHALL	CD	1140-27688	
@sdtc:valueSet	0..1	SHOULD		1140-27694	
translation	0..*	MAY		1140-27691	
@sdtc:valueSet	1..1	SHALL		1140-27695	
entryRelationship	0..1	MAY		1140-27696	
@typeCode	1..1	SHALL		1140-27698	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27699	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-27697	
@typeCode	1..1	SHALL		1140-27700	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27701	Provider Preference (V2) (identifier:

					urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
entryRelationship	0..1	MAY		1140-27702	
@typeCode	1..1	SHALL		1140-27707	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27708	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09)
entryRelationship	0..1	MAY		1140-27703	
@typeCode	1..1	SHALL		1140-27709	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27710	Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93)

1. Conforms to [Family History Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.46:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27685).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27686).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28057).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-27675) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.112" (CONF:1140-27681).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27682).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-27690).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-27692).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-27693).
7. **MAY** contain zero or one [0..1] **priorityCode** (CONF:1140-27706).

If the code used for the diagnosis does not exist in the value set Problem (2.16.840.1.113883.3.88.12.3221.7.4) then use value/@nullFlavor="OTH", value/@codeSystem="2.16.840.1.113883.6.96" and use translation for the code. See example below.

8. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-27688).
 - a. This value **SHOULD** contain zero or one [0..1] **@sdct:valueSet** (CONF:1140-27694).
 - b. This value **MAY** contain zero or more [0..*] **translation** (CONF:1140-27691).
 - i. The translation, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27695).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27696) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27698).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27699).
- 10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27697) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27700).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27701).
- 11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27702) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27707).
 - b. **SHALL** contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27708).
- 12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27703) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27709).
 - b. **SHALL** contain exactly one [1..1] Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:1140-27710).

Figure 49: Diagnosis Family History Observation Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Confirms to C-CDA Family History Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.46" extension="2014-06-09" />
  <!-- Diagnosis Family History Observation -->
  <templateId root="2.16.840.1.113883.10.20.24.3.112" extension="2014-12-01" />
  <id root="d42ebf70-5c89-11db-b0de-0800200c9a66" />
  <code code="75323-6" displayName="Condition" codeSystemName="LOINC"
    codeSystem="2.16.840.1.113883.6.1" />
  <statusCode code="completed" />

  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="1967" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="1967" />
  </effectiveTime>

  <!-- QDM Attribute: Ordinality -->
  <!-- The following code may not be correct and may change in the future (if
        the relevant eMeasure is changed -->
  <priorityCode code="63161005" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="Principal"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- Diagnosis/Condition/Problem -->
  <value xsi:type="CD" code="22298006" codeSystem="2.16.840.1.113883.6.96"
    displayName="Myocardial infarction"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Status -->
  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Problem Status (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.111" extension="2014-12-01" />
      <!-- Problem Status Inactive (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.95" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Severity -->
  <entryRelationship typeCode="REFR">
```

```

<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.8" extension="2014-06-09" />
  ...
</observation>
</entryRelationship>
</observation>

```

Figure 50: Diagnosis Family History Observation - value/translation - Example

```

<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA Family History Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.46" extension="2014-06-09" />
  <!-- Diagnosis Family History Observation -->
  <templateId root="2.16.840.1.113883.10.20.24.3.112" extension="2014-12-01" />
  ...

  <!-- Diagnosis/Condition/Problem -->
  <value xsi:type="CD" nullFlavor="OTH" codeSystem="2.16.840.1.113883.6.96">
    <translation code="I21.01"
      displayName="ST elevation (STEMI) myocardial infarction involving left
        main coronary artery"
      codeSystem="2.16.840.1.113883.6.90" codeSystemName="ICD10CM"
      sdtc:valueSet="{ $QDMElementValueSetOID }" />
  </value>

  ...
</observation>

```

4.19 Family History Organizer (V2)

[organizer: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.45:2014-06-09 (open)]

Table 106: Family History Organizer (V2) Contexts

Contained By:	Contains:
	Family History Observation (V2)

The Family History Organizer associates a set of observations with a family member. For example, the Family History Organizer can group a set of observations about the patient's father.

Table 107: Family History Organizer (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.45:2014-06-09)					
@classCode	1..1	SHALL		1098-8600	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CLUSTER
@moodCode	1..1	SHALL		1098-8601	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-8604	
@root	1..1	SHALL		1098-10497	2.16.840.1.113883.10.20.22.4.45
@extension	1..1	SHALL		1098-32606	2014-06-09
id	1..*	SHALL		1098-32485	
statusCode	1..1	SHALL		1098-8602	
@code	1..1	SHALL		1098-19099	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
subject	1..1	SHALL		1098-8609	
relatedSubject	1..1	SHALL		1098-15244	
@classCode	1..1	SHALL		1098-15245	urn:oid:2.16.840.1.113883.5.41 (EntityClass) = PRS
code	1..1	SHALL		1098-15246	
@code	1..1	SHALL		1098-15247	urn:oid:2.16.840.1.113883.1.11.19579 (Family Member Value Set)
subject	0..1	SHOULD		1098-15248	
administrativeGenderCode	1..1	SHALL		1098-15974	
@code	1..1	SHALL		1098-15975	urn:oid:2.16.840.1.113883.1.11.1 (Administrative Gender (HL7 V3))
birthTime	0..1	SHOULD		1098-15976	
component	1..*	SHALL		1098-32428	
observation	1..1	SHALL		1098-32429	Family History Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.46:2014-06-09)

1. **SHALL** contain exactly one [1..1] **@classCode="CLUSTER"** Cluster (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8600).
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-8601).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-8604) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.45"** (CONF:1098-10497).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-06-09"** (CONF:1098-32606).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-32485).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-8602).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code="completed"** Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19099).
6. **SHALL** contain exactly one [1..1] **subject** (CONF:1098-8609).
 - a. This subject **SHALL** contain exactly one [1..1] **relatedSubject** (CONF:1098-15244).
 - i. This relatedSubject **SHALL** contain exactly one [1..1] **@classCode="PRS"** Person (CodeSystem: EntityClass urn:oid:2.16.840.1.113883.5.41 **STATIC**) (CONF:1098-15245).
 - ii. This relatedSubject **SHALL** contain exactly one [1..1] **code** (CONF:1098-15246).
 1. This code **SHALL** contain exactly one [1..1] **@code**, which **SHOULD** be selected from ValueSet Family Member Value Set urn:oid:2.16.840.1.113883.1.11.19579 **DYNAMIC** (CONF:1098-15247).
 - iii. This relatedSubject **SHOULD** contain zero or one [0..1] **subject** (CONF:1098-15248).
 1. The subject, if present, **SHALL** contain exactly one [1..1] **administrativeGenderCode** (CONF:1098-15974).
 - a. This administrativeGenderCode **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet Administrative Gender (HL7 V3) urn:oid:2.16.840.1.113883.1.11.1 **DYNAMIC** (CONF:1098-15975).
 2. The subject, if present, **SHOULD** contain zero or one [0..1] **birthTime** (CONF:1098-15976).
 3. The subject **SHOULD** contain zero or more [0..*] **sdctc:id**. The prefix **sdctc:** **SHALL** be bound to the namespace “urn:hl7-org:sdctc”. The use of the namespace provides a necessary extension to CDA R2 for the use of the id element (CONF:1098-15249).
 4. The subject **MAY** contain zero or one [0..1] **sdctc:deceasedInd**. The prefix **sdctc:** **SHALL** be bound to the namespace “urn:hl7-org:sdctc”. The use of the namespace provides a necessary extension to CDA R2 for the use of the deceasedInd element (CONF:1098-15981).
 5. The subject **MAY** contain zero or one [0..1] **sdctc:deceasedTime**. The prefix **sdctc:** **SHALL** be bound to the namespace “urn:hl7-org:sdctc”.

The use of the namespace provides a necessary extension to CDA R2 for the use of the deceasedTime element (CONF:1098-15982).

6. The age of a relative at the time of a family history observation **SHOULD** be inferred by comparing RelatedSubject/subject/birthTime with Observation/effectiveTime (CONF:1098-15983).
7. **SHALL** contain at least one [1..*] **component** (CONF:1098-32428).
 - a. Such components **SHALL** contain exactly one [1..1] Family History Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.46:2014-06-09) (CONF:1098-32429).

Table 108: Family Member Value Set

Value Set: Family Member Value Set urn:oid:2.16.840.1.113883.1.11.19579 Family Relationships record the familial relationship of a person to another person. This value set is to be used when it is necessary to record family relationships (e.g., next of kin, or blood relations). This is a subset of the value set used for personal relationships Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.htm			
Code	Code System	Code System OID	Print Name
ADOPT	RoleCode	urn:oid:2.16.840.1.113883.5.111	adopted child
AUNT	RoleCode	urn:oid:2.16.840.1.113883.5.111	aunt
CHILD	RoleCode	urn:oid:2.16.840.1.113883.5.111	Child
CHLDINLAW	RoleCode	urn:oid:2.16.840.1.113883.5.111	child in-law
COUSN	RoleCode	urn:oid:2.16.840.1.113883.5.111	cousin
DOMPART	RoleCode	urn:oid:2.16.840.1.113883.5.111	domestic partner
FAMMEMB	RoleCode	urn:oid:2.16.840.1.113883.5.111	Family Member
CHLDFOST	RoleCode	urn:oid:2.16.840.1.113883.5.111	foster child
GRNDCHILD	RoleCode	urn:oid:2.16.840.1.113883.5.111	grandchild
GRPRN	RoleCode	urn:oid:2.16.840.1.113883.5.111	Grandparent
...			

Figure 51: Family History Organizer (V2) Example

```
<organizer moodCode="EVN" classCode="CLUSTER">
  <templateId root="2.16.840.1.113883.10.20.22.4.45" extension="2014-06-09" />
  <statusCode code="completed" />
  <subject>
    <relatedSubject classCode="PRS">
      <code code="FTH" displayName="Father" codeSystemName="HL7 FamilyMember"
codeSystem="2.16.840.1.113883.5.111">
        <translation code="9947008" displayName="Natural father"
codeSystemName="SNOMED" codeSystem="2.16.840.1.113883.6.96" />
      </code>
    </subject>
    <sdtc:id root="2.16.840.1.113883.19.5.99999.2" extension="99999999" />
    <id root="2.16.840.1.113883.19.5.99999.2" extension="1234" />
    <administrativeGenderCode code="M" />
    <birthTime value="1910" />
    <!-- Example use of sdtc extensions :-->
    <!-- <sdtc:deceasedInd value="true"/>
        <sdtc:deceasedTime value="1967"/>
    -->
  </subject>
</relatedSubject>
</subject>
<component>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.46" />
    . . .

  </observation>
</component>
</organizer>
```

4.19.1 Diagnosis Family History (V2)

[organizer: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.12:2014-12-01
(open)]

Table 109: Diagnosis Family History (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Diagnosis Family History Observation

This template (along with its contained template Diagnosis Family History Observation) represents the QDM datatype: Diagnosis, Family History.

This template is an organizer that contains the Diagnosis Family History Observation template and represents problems, conditions, and diagnoses experienced by a patient's family members, whether existing currently or in the past. This organizer groups the Diagnosis Family History Observation by family member as expressed in the subject.

Table 110: Diagnosis Family History (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
organizer (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.12:2014-12-01)					
templateId	1..1	SHALL		1140-14175	
@root	1..1	SHALL		1140-14176	2.16.840.1.113883.10.20.24.3.12
@extension	1..1	SHALL		1140-26553	2014-12-01
component	1..*	SHALL		1140-27715	
observation	1..1	SHALL		1140-27716	Diagnosis Family History Observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.112:2014-12-01)

1. Conforms to [Family History Organizer \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.45:2014-06-09).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-14175) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.12" (CONF:1140-14176).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-26553).
3. **SHALL** contain at least one [1..*] **component** (CONF:1140-27715) such that it
 - a. **SHALL** contain exactly one [1..1] [Diagnosis Family History Observation](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.112:2014-12-01) (CONF:1140-27716).

Figure 52: Diagnosis Family History (V2) Example

```
<organizer moodCode="EVN" classCode="CLUSTER">
  <!-- C-CDA R2 Family History Organizer (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.45" extension="2014-06-09" />
  <!-- Diagnosis Family History (V2) templateId -->
  <templateId root="2.16.840.1.113883.10.20.24.3.12" extension="2014-12-01" />
  <id root="2cc2566e-4e7f-4820-817e-31912a61ea1a" />
  <statusCode code="completed" />
  <!-- Subject of the contained Diagnosis Family History Observation template(s) -->
  <subject>
    <relatedSubject classCode="PRS">
      <code code="FTH" displayName="Father" codeSystemName="HL7RoleCode"
        codeSystem="2.16.840.1.113883.5.111" />
    </relatedSubject>
  </subject>
  <component>
    <!-- Diagnosis Family History Observation -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA Family History Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.46" extension="2014-06-09" />
      <!-- Diagnosis Family History Observation-->
      <templateId root="2.16.840.1.113883.10.20.24.3.112" extension="2014-12-01" />
      ...
    </observation>
  </component>
</organizer>
```

4.20 Goal Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.121 (open)]

Table 111: Goal Observation Contexts

Contained By:	Contains:
	Author Participation Entry Reference External Document Reference Goal Observation Priority Preference

This template represents a patient health goal. A Goal Observation template may have related components that are acts, encounters, observations, procedures, substance administrations, or supplies.

A goal may be a patient or provider goal. If the author is set to the recordTarget (patient), this is a patient goal. If the author is set to a provider, this is a provider goal. If both patient and provider are set as authors, this is a negotiated goal.

A goal usually has a related health concern and/or risk.

A goal may have components consisting of other goals (milestones). These milestones are related to the overall goal through entryRelationships.

Table 112: Goal Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.121)					
@classCode	1..1	SHALL		1098-30418	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-30419	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = GOL
templateId	1..1	SHALL		1098-8583	
@root	1..1	SHALL		1098-10512	2.16.840.1.113883.10.20.22.4.121
id	1..*	SHALL		1098-32332	
code	1..1	SHALL		1098-30784	urn:oid:2.16.840.1.113883.6.1 (LOINC)
statusCode	1..1	SHALL		1098-32333	
@code	1..1	SHALL		1098-32334	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	0..1	SHOULD		1098-32335	
value	0..1	MAY		1098-32743	
author	1..*	SHALL		1098-30995	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..*	MAY		1098-30701	
@typeCode	1..1	SHALL		1098-30702	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		1098-30703	Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122)
entryRelationship	0..*	MAY		1098-30704	
@typeCode	1..1	SHALL		1098-30705	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
act	1..1	SHALL		1098-32879	Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122)
entryRelationship	0..1	SHOULD		1098-30785	
@typeCode	1..1	SHALL		1098-30786	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR

observation	1..1	SHALL		1098-30787	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143)
entryRelationship	0..*	MAY		1098-31448	
@typeCode	1..1	SHALL		1098-31449	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
observation	1..1	SHALL		1098-32880	Goal Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.121)
entryRelationship	0..*	MAY		1098-31559	
@typeCode	1..1	SHALL		1098-31560	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
act	1..1	SHALL		1098-31588	Entry Reference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122)
reference	0..*	MAY		1098-32754	
@typeCode	1..1	SHALL		1098-32755	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
externalDocument	1..1	SHALL		1098-32756	External Document Reference (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-30418).
2. **SHALL** contain exactly one [1..1] **@moodCode**="GOL" Goal (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-30419).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-8583) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.121" (CONF:1098-10512).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-32332).
5. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from CodeSystem LOINC (urn:oid:2.16.840.1.113883.6.1) (CONF:1098-30784).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-32333).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-32334).
7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-32335).
8. **MAY** contain zero or one [0..1] **value** (CONF:1098-32743).

If the author is set to the recordTarget (patient), this is a patient goal. If the author is set to a provider, this is a provider goal. If both patient and provider are set as authors, this is a negotiated goal.

9. **SHALL** contain at least one [1..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-30995).

The following entryRelationship represents the relationship between a Goal Observation and a Health Concern Act (Goal Observation REFERS TO Health Concern Act). As Health Concern Act is already defined in Health Concerns Section, rather than clone the whole Health Concern Act template, an Entry Reference may be used in entryRelationship to refer the template.

10. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-30701) such that it
- SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-30702).
 - SHALL** contain exactly one [1..1] [Entry Reference](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:1098-30703).

The following entryRelationship represents a planned component of the goal such as Planned Encounter (V2), Planned Observation (V2), Planned Procedure (V2), Planned Medication Activity (V2), Planned Supply (V2), Planned Act (V2) or Planned Immunization Activity. Because these entries are already described in the Interventions Section of the CDA document instance, rather than repeating the full content of the entries, the Entry Reference template may be used to reference the entries.

11. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-30704) such that it
- SHALL** contain exactly one [1..1] **@typeCode="COMP"** Has component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-30705).
 - SHALL** contain exactly one [1..1] [Entry Reference](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:1098-32879).

The following entryRelationship represents the priority that the patient or a provider puts on the goal.

12. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:1098-30785) such that it
- SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-30786).
 - SHALL** contain exactly one [1..1] [Priority Preference](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-30787).

The following entryRelationship represents the relationship between two Goal Observations where the target is a component of the source (Goal Observation HAS COMPONENT Goal Observation). The component goal (target) is a Milestone.

13. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31448) such that it
- SHALL** contain exactly one [1..1] **@typeCode="COMP"** Has component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31449).
 - SHALL** contain exactly one [1..1] [Goal Observation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.121) (CONF:1098-32880).

Where a Goal Observation needs to reference another entry already described in the CDA document instance, rather than repeating the full content of the entry, the Entry Reference template may be used to reference this entry.

14. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31559) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31560).
 - b. **SHALL** contain exactly one [1..1] **Entry Reference** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.122) (CONF:1098-31588).

Where it is necessary to reference an external clinical document such a Referral document, Discharge Summary document etc., the External Document Reference template can be used to reference this document. However, if this Care Plan document is replacing or appending another Care Plan document in the same set, that relationship is set in the header, using ClinicalDocument/relatedDocument.

15. **MAY** contain zero or more [0..*] **reference** (CONF:1098-32754).
- a. The reference, if present, **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32755).
 - b. The reference, if present, **SHALL** contain exactly one [1..1] **External Document Reference** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09) (CONF:1098-32756).

Figure 53: Goal Observation Example

```
<observation classCode="OBS" moodCode="GOL">
  <templateId root="2.16.840.1.113883.10.20.22.4.121" />
  <id root="3700b3b0-fbed-11e2-b778-0800200c9a66" />
  <code code="44616-1"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Pulse oximetry panel" />
  <statusCode code="active" />
  <effectiveTime value="20130902" />
  <value xsi:type="IVL_PQ">
    <low value="92" unit="%" />
  </value>
  <!--
    If the author is set to the recordTarget (patient), this is a patient goal.
    If the author is set to a provider, this is a provider goal.
    If both patient and provider are set as authors, this is a negotiated goal.
  -->
  <!-- Provider Author -->
  <author>
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    ...
  </author>
  <!-- Patient Author -->
  <author typeCode="AUT">
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    ...
  </author>
  <!-- This entryRelationship represents the relationship "Goal REFERS TO Health Concern" -
->
  <entryRelationship typeCode="REFR">
    <!-- Entry Reference Concern Act -->
    <act classCode="ACT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.122" />
      <!-- This id points to an already defined Health Concern in the Health Concerns
Section -->
      <id root="4eab0e52-dd7d-4285-99eb-72d32ddb195c" />
      ...
    </act>
  </entryRelationship>
  <!-- Priority Preference -->
  <entryRelationship typeCode="RSON">
    <!-- Priority Preference - this is the preference that the patient
(specified by the Author Participation template)
places on the Goal -->
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.143" />
      ...
    </observation>
  </entryRelationship>
  <!-- Priority Preference - this is the preference that the provider
(specified by the Author Participation template)
places on the Goal -->
  <entryRelationship typeCode="RSON">
    <!-- Priority Preference -->
    <observation classCode="OBS" moodCode="EVN">
```

```

    <templateId root="2.16.840.1.113883.10.20.22.4.143" />
    ...
  </observation>
</entryRelationship>
</observation>

```

4.20.1 Care Goal (V2)

```

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.1:2014-12-01
(open) ]

```

Table 113: Care Goal (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Target Outcome

This template represents the QDM datatype: Care Goal.

A goal is a defined target or measure to be achieved in the process of patient care. A typical goal is expressed as an observation scheduled for some time in the future with a particular value. A goal can be found in the plan of care (care plan). The plan of care (care plan) is the structure used by all stakeholders, including the patient, to define the management actions for the various conditions, problems, or issues identified for the target of the plan. It is the structure through which the goals and care planning actions and processes can be organized, planned, communicated, and checked for completion. A date/time stamp is required. ModeCode is constrained to “GOL” and actStatus is constrained to “active”.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 114: Care Goal (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.1:2014-12-01)					
@classCode	1..1	SHALL		1140-11245	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11246	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = GOL
@negationInd	0..1	MAY		1140-28040	
templateId	1..1	SHALL		1140-11247	
@root	1..1	SHALL		1140-11248	2.16.840.1.113883.10.20.24.3.1
@extension	1..1	SHALL		1140-27067	2014-12-01
code	1..1	SHALL		1140-27576	
@sdct:valueSet	1..1	SHALL		1140-27577	
effectiveTime	1..1	SHALL		1140-11255	
low	1..1	SHALL		1140-27557	
high	0..1	MAY		1140-27558	
entryRelationship	0..1	MAY		1140-11258	
@typeCode	1..1	SHALL		1140-11423	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27219	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11259	
@typeCode	1..1	SHALL		1140-11424	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27220	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-11646	
@typeCode	1..1	SHALL		1140-13876	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR

observation	1..1	SHALL		1140-11647	
@classCode	1..1	SHALL		1140-11648	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11649	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
value	1..1	SHALL	CD	1140-11650	
entryRelationship	0..1	MAY		1140-28036	
@typeCode	1..1	SHALL		1140-28037	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-28038	Target Outcome (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.119:2014-12-01)

1. Conforms to [Goal Observation](#) template (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.121).
2. **SHALL** contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11245).
3. **SHALL** contain exactly one [1..1] @moodCode="GOL" goal (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11246).
4. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28040).
5. **SHALL** contain exactly one [1..1] templateId (CONF:1140-11247) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.1" (CONF:1140-11248).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27067).
6. **SHALL** contain exactly one [1..1] code (CONF:1140-27576).
 - a. This code **SHALL** contain exactly one [1..1] @sdctc:valueSet (CONF:1140-27577).
7. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1140-11255).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1140-27557).
 - b. This effectiveTime **MAY** contain zero or one [0..1] high (CONF:1140-27558).
8. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-11258) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11423).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27219).
9. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-11259) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11424).

- b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27220).
- 10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11646) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13876).
 - b. **SHALL** contain exactly one [1..1] **observation** (CONF:1140-11647).
 - i. This observation **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11648).
 - ii. This observation **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11649).
 - iii. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-11650).
- 11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-28036) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28037).
 - b. **SHALL** contain exactly one [1..1] [Target Outcome](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.119:2014-12-01) (CONF:1140-28038).

Figure 54: Care Goal (V2) Example

```
<observation classCode="OBS" moodCode="GOL">
  <!-- Conforms to C-CDA R2 Goal Observation -->
  <templateId root="2.16.840.1.113883.10.20.22.4.121" />
  <!-- Care Goal (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.1" extension="2014-12-01" />
  <id root="751aa255-0e10-4364-a56a-a4cf2aed0d01" />

  <code code="44616-1" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Pulse oximetry panel" sdctc:valueSet="{ $QDMElementValueSetOID}" />
  <text>Care Goal: Pulse Oximetry greater than 92%</text>

  <statusCode code="active" />

  <effectiveTime>
    <!-- QDM Attribute: Start datetime -->
    <low value="20140101" />
    <!-- QDM Attribute: Stop datetime -->
    <high value="20140102" />
  </effectiveTime>
  <value xsi:type="IVL_PQ">
    <low value="92" unit="%" />
  </value>
  <!-- This author is required by C-CDA R2 Goal Observation to
    specify whether this is a patient or a provider goal-->
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <low value="201204081130" />
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <!-- QDM Attribute: Related to -->
  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
      <code code="75323-6" codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC" displayName="Condition" />
      <value xsi:type="CD" code="304527002" codeSystem="2.16.840.1.113883.6.96"
        displayName="Acute asthma (disorder)" codeSystemName="SNOMED CT"
        sdctc:valueSet="{ $QDMElementValueSetOID}" />
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Target Outcome -->
  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.119" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
```

```

        <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
        ...
    </observation>
</entryRelationship>
<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
        ...
    </observation>
</entryRelationship>
</observation>

```

4.21 Immunization Medication Information (V2)

[manufacturedProduct: identifier
urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09 (open)]

Table 115: Immunization Medication Information (V2) Contexts

Contained By:	Contains:
Planned Supply (V2) (optional) Medication Supply Order (V2) (optional) Medication Dispense (V2) (optional)	

The Immunization Medication Information represents product information about the immunization substance. The vaccine manufacturer and vaccine lot number are typically recorded in the medical record and should be included if known.

Table 116: Immunization Medication Information (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
manufacturedProduct (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09)					
@classCode	1..1	SHALL		1098-9002	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
templateId	1..1	SHALL		1098-9004	
@root	1..1	SHALL		1098-10499	2.16.840.1.113883.10.20.22.4.54
@extension	1..1	SHALL		1098-32602	2014-06-09
id	0..*	MAY		1098-9005	
manufacturedMaterial	1..1	SHALL		1098-9006	
code	1..1	SHALL		1098-9007	urn:oid:2.16.840.1.113762.1.4.1010.6 (CVX Vaccines Administered - Vaccine Set)
translation	0..*	MAY		1098-31543	urn:oid:2.16.840.1.113762.1.4.1010.8 (Vaccine Clinical Drug)
translation	0..*	MAY		1098-31881	urn:oid:2.16.840.1.113762.1.4.1010.10 (Specific Vaccine Clinical Drug)
lotNumberText	1..1	SHALL		1098-9014	
manufacturerOrganization	0..1	SHOULD		1098-9012	

1. **SHALL** contain exactly one [1..1] **@classCode**="MANU" (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 **STATIC**) (CONF:1098-9002).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-9004) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.54" (CONF:1098-10499).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32602).
3. **MAY** contain zero or more [0..*] **id** (CONF:1098-9005).
4. **SHALL** contain exactly one [1..1] **manufacturedMaterial** (CONF:1098-9006).
 - a. This **manufacturedMaterial** **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [CVX Vaccines Administered - Vaccine Set](#) urn:oid:2.16.840.1.113762.1.4.1010.6 **DYNAMIC** (CONF:1098-9007).
 - i. This **code** **MAY** contain zero or more [0..*] **translation**, which **MAY** be selected from ValueSet [Vaccine Clinical Drug](#) urn:oid:2.16.840.1.113762.1.4.1010.8 **DYNAMIC** (CONF:1098-31543).
 - ii. This **code** **MAY** contain zero or more [0..*] **translation**, which **MAY** be selected from ValueSet [Specific Vaccine Clinical Drug](#) urn:oid:2.16.840.1.113762.1.4.1010.10 **DYNAMIC** (CONF:1098-31881).

- b. This manufacturedMaterial **SHALL** contain exactly one [1..1] **lotNumberText** (CONF:1098-9014).
5. **SHOULD** contain zero or one [0..1] **manufacturerOrganization** (CONF:1098-9012).

Table 117: CVX Vaccines Administered - Vaccine Set

Value Set: CVX Vaccines Administered - Vaccine Set urn:oid:2.16.840.1.113762.1.4.1010.6 CVX vaccine concepts that represent actual vaccines types. This does not include the identifiers for CVX codes that do not represent vaccines. Value set intensionally defined from CVX (OID: 2.16.840.1.113883.12.292) FilterOnProperty(nonvaccine,FALSE). Value Set Source: http://www2a.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=cvx			
Code	Code System	Code System OID	Print Name
19	CDC Vaccine Code (CVX)	urn:oid:2.16.840.1.113883.12.292	BCG
26	CDC Vaccine Code (CVX)	urn:oid:2.16.840.1.113883.12.292	Cholera
24	CDC Vaccine Code (CVX)	urn:oid:2.16.840.1.113883.12.292	Anthrax
27	CDC Vaccine Code (CVX)	urn:oid:2.16.840.1.113883.12.292	Botulinum antitoxin
...			

Table 118: Vaccine Clinical Drug

Value Set: Vaccine Clinical Drug urn:oid:2.16.840.1.113762.1.4.1010.8 Administrable vaccine medication formulations represented using either a "generic" or "brand-specific" concept. Value set intensionally defined from RXNORM (OID: 2.16.840.1.113883.6.88), comprised of those codes whose ingredients map to NDC codes that the CDC associates with CVX codes. Value Set Source: https://vsac.nlm.nih.gov/			
Code	Code System	Code System OID	Print Name
898572	RxNorm	urn:oid:2.16.840.1.113883.6.88	0.17 ML Rho(D) Immune Globulin 0.3 MG/ML Prefilled Syringe [HyperRHO]
807276	RxNorm	urn:oid:2.16.840.1.113883.6.88	0.5 ML diphtheria toxoid vaccine, inactivated 4 UNT/ML / tetanus toxoid vaccine, inactivated 10 UNT/ML Prefilled Syringe [Decavac]
798482	RxNorm	urn:oid:2.16.840.1.113883.6.88	0.5 ML Hepatitis A Vaccine (Inactivated) Strain HM175 1440 UNT/ML Prefilled Syringe [Havrix]
836636	RxNorm	urn:oid:2.16.840.1.113883.6.88	0.5 ML Hepatitis A Vaccine, Inactivated 50 UNT/ML Prefilled Syringe [Vaqta]
...			

Table 119: Specific Vaccine Clinical Drug

Value Set: Specific Vaccine Clinical Drug urn:oid:2.16.840.1.113762.1.4.1010.10 This value set contains extensionally identified RxNorm vaccine codes. It should be used to supplement the Vaccine Clinical Drug Value Set (Value Set OID 2.16.840.1.113762.1.4.1010.8). Intensional rules for the latter value set are being refined, but at this time lack complete sensitivity, and as a result can miss including relevant codes. This Specific Vaccine Clinical Drug Value Set is used to manually provide for these other RxNorm codes. (At the time of Consolidated CDA R2 publication, the value set has no members) Value Set Source: https://vsac.nlm.nih.gov/			
Code	Code System	Code System OID	Print Name
NA	RxNorm	urn:oid:2.16.840.1.113883.6.88	At the time of Consolidated CDA R2 publication, the value set has no members
...			

Figure 55: Immunization Medication Information (V2) Example

```
<manufacturedProduct classCode="MANU">
  <!-- ** Immunization medication information ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.54" extension="2014-06-09" />
  <manufacturedMaterial>
    <code code="33" codeSystem="2.16.840.1.113883.6.59" displayName="Pneumococcal
polysaccharide vaccine" codeSystemName="CVX">
      <translation code="854981" displayName="Pneumovax 23 (Pneumococcal vaccine
polyvalent) Injectable Solution" codeSystemName="RxNORM"
codeSystem="2.16.840.1.113883.6.88" />
    </code>
    <lotNumberText>1</lotNumberText>
  </manufacturedMaterial>
  <manufacturerOrganization>
    <name>Health LS - Immuno Inc.</name>
  </manufacturerOrganization>
</manufacturedProduct>
```

4.22 Incision Datetime

[procedure: identifier urn:oid:2.16.840.1.113883.10.20.24.3.89 (open)]

Table 120: Incision Datetime Contexts

Contained By:	Contains:
Procedure Performed (V2) (optional)	

This template represents the QDM Attribute Incision Datetime, which indicates the time the incision was made.

Table 121: Incision Datetime Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
procedure (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.89)					
@classCode	1..1	SHALL		67-14559	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC
@moodCode	1..1	SHALL		67-11401	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		67-11402	
@root	1..1	SHALL		67-11403	2.16.840.1.113883.10.20.24.3.89
id	1..*	SHALL		67-26984	
code	1..1	SHALL		67-14562	
@code	0..1	MAY		67-14563	34896006
@codeSystem	1..1	SHALL		67-27014	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
effectiveTime	1..1	SHALL		67-14561	

1. **SHALL** contain exactly one [1..1] **@classCode**="PROC" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:67-14559).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:67-11401).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:67-11402) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.89" (CONF:67-11403).
4. **SHALL** contain at least one [1..*] **id** (CONF:67-26984).
5. **SHALL** contain exactly one [1..1] **code** (CONF:67-14562).
 - a. This code **MAY** contain zero or one [0..1] **@code**="34896006" incision (CONF:67-14563).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:67-27014).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:67-14561).

Figure 56: Incision Datetime Example

```
<procedure classCode="PROC" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.3.89" />
  <id root="2d5dc123-13ca-477d-9263-4a9c504186a1" />
  <code code="34896006"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="incision" />
  <effectiveTime value="20120329091500+0500" />
</procedure>
```

4.23 Indication (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09
(open)]

Table 122: Indication (V2) Contexts

Contained By:	Contains:
Medication Activity (V2) (optional) Procedure Activity Act (V2) (optional) Procedure Activity Procedure (V2) (optional) Procedure Activity Observation (V2) (optional) Encounter Activity (V2) (optional) Planned Act (V2) (optional) Planned Encounter (V2) (optional) Planned Procedure (V2) (optional) Planned Observation (V2) (optional) Planned Supply (V2) (optional) Planned Medication Activity (V2) (optional)	

This template represents the rationale for an action such as an encounter, a medication administration, or a procedure. The id element can be used to reference a problem recorded elsewhere in the document, or can be used with a code and value to record the problem. Indications for treatment are not laboratory results; rather the problem associated with the laboratory result should be sited (e.g., hypokalemia instead of a laboratory result of Potassium 2.0 mEq/L). Use the Drug Monitoring Act [templateId 2.16.840.1.113883.10.20.22.4.123] to indicate if a particular drug needs special monitoring (e.g., anticoagulant therapy). Use Precondition for Substance Administration (V2) [templateId 2.16.840.1.113883.10.20.22.4.25.2] to represent that a medication is to be administered only when the associated criteria are met.

Table 123: Indication (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09)					
@classCode	1..1	SHALL		1098-7480	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-7481	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-7482	
@root	1..1	SHALL		1098-10502	2.16.840.1.113883.10.20.22.4.19
@extension	1..1	SHALL		1098-32570	2014-06-09
id	1..*	SHALL		1098-7483	
code	1..1	SHALL		1098-31229	urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 (Problem Type)
statusCode	1..1	SHALL		1098-7487	
@code	1..1	SHALL		1098-19105	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	0..1	SHOULD		1098-7488	
value	0..1	MAY	CD	1098-7489	urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 (Problem)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7480).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7481).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7482) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.19" (CONF:1098-10502).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32570).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-7483).
 Note: If the id element is used to reference a problem recorded else where in the document then this id must equal another entry/id in the same document instance. Application Software must be responsible for resolving the identifier back to its original object and then rendering the information in the correct place in the containing section's narrative text. Its purpose is to obviate the need to repeat the complete XML representation of the referred to entry when relating one entry to another.
5. **SHALL** contain exactly one [1..1] **code**, which **MAY** be selected from ValueSet [Problem Type](#) urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 **STATIC** 2014-09-02 (CONF:1098-31229).

6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7487).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code="completed"** Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19105).
7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-7488).
8. **MAY** contain zero or one [0..1] **value** with **@xsi:type="CD"**, where the code **SHOULD** be selected from ValueSet [Problem](#) urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 **DYNAMIC** (CONF:1098-7489).

Figure 57: Indication (V2) Example

```

<entry typeCode="DRIV">
  <substanceAdministration classCode="SBADM" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.16" extension="2014-06-09" />
    <!-- ** MEDICATION ACTIVITY -->
    <id root="cdbd33f0-6cde-11db-9fe1-0800200c9a66" />
    <text>
      <reference value="#Med1" /> 0.09 MG/ACTUAT inhalant solution, 2 puffs QID PRN
wheezing
    </text>
    ...
    <!-- Indication snippet inside a Medication Activity -->
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.19" extension="2014-06-09"
/>
        <!-- Note that this id equals the problem observation/id -->
        <id root="db734647-fc99-424c-a864-7e3cda82e703" />
        <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
        <statusCode code="completed" />
        <value xsi:type="CD" code="32398004" displayName="Bronchitis"
codeSystem="2.16.840.1.113883.6.96" />
        </observation>
      </entryRelationship>
      ...
    </substanceAdministration>
  </entry>
  <!-- Points to a problem on the problem list -->
  <!-- Problem observation template
  <templateId root="2.16.840.1.113883.10.20.22.4.4"/>
  Note that this id equals the Indication observation/id
  <id root="db734647-fc99-424c-a864-7e3cda82e703"/> -->

```


4.24 Instruction (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09 (open)]

Table 124: Instruction (V2) Contexts

Contained By:	Contains:
Medication Activity (V2) (optional) Procedure Activity Act (V2) (optional) Procedure Activity Procedure (V2) (optional) Procedure Activity Observation (V2) (optional) Planned Act (V2) (optional) Planned Procedure (V2) (optional) Planned Observation (V2) (optional) Planned Supply (V2) (optional) Planned Medication Activity (V2) (optional) Medication Supply Order (V2) (optional)	

The Instruction template can be used in several ways, such as to record patient instructions within a Medication Activity or to record fill instructions within a supply order. The template's moodCode can only be INT. If an instruction was already be given, the Procedure Activity Act template (instead of this template) should be used to represent the already occurred instruction. The act/code defines the type of instruction. Though not defined in this template, a Vaccine Information Statement (VIS) document could be referenced through act/reference/externalDocument, and patient awareness of the instructions can be represented with the generic participant and the participant/awarenessCode.

Table 125: Instruction (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09)					
@classCode	1..1	SHALL		1098-7391	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-7392	urn:oid:2.16.840.1.113883.5.100 1 (ActMood) = INT
templateId	1..1	SHALL		1098-7393	
@root	1..1	SHALL		1098-10503	2.16.840.1.113883.10.20.22.4.20
@extension	1..1	SHALL		1098-32598	2014-06-09
code	1..1	SHALL		1098-16884	urn:oid:2.16.840.1.113883.11.20.9.34 (Patient Education)
statusCode	1..1	SHALL		1098-7396	
@code	1..1	SHALL		1098-19106	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed

1. **SHALL** contain exactly one [1..1] **@classCode="ACT"** (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7391).
2. **SHALL** contain exactly one [1..1] **@moodCode="INT"** (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7392).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7393) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.20"** (CONF:1098-10503).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-06-09"** (CONF:1098-32598).
4. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet [Patient Education](#) urn:oid:2.16.840.1.113883.11.20.9.34 **DYNAMIC** (CONF:1098-16884).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7396).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code="completed"** Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19106).

Table 126: Patient Education

Value Set: Patient Education urn:oid:2.16.840.1.113883.11.20.9.34 Limited to terms descending from the Education (409073007) hierarchy. Specific URL Pending Value Set Source: http://browser.ihtsdotools.org/			
Code	Code System	Code System OID	Print Name
311401005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Patient Education
171044003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Immunization Education
243072006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Cancer Education
...			

Figure 58: Instruction (V2) Example

```

<act classCode="ACT" moodCode="INT">
  <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
  <code code="171044003" codeSystem="2.16.840.1.113883.6.96" displayName="immunization
  education" />
  <text>
    <reference value="#immunSect" />
    Possible flu-like symptoms for three days.
  </text>
  <statusCode code="completed" />
</act>

```

4.25 Measure Reference

[organizer: identifier urn:oid:2.16.840.1.113883.10.20.24.3.98 (open)]

Table 127: Measure Reference Contexts

Contained By:	Contains:
Measure Section (required)	

This template defines the way that a Measure should be referenced. Measures are referenced through externalAct reference to an externalDocument. The externalDocument/ids and version numbers are used to reference the measure.

Table 128: Measure Reference Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
organizer (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.98)					
@classCode	1..1	SHALL		67-12979	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CLUSTER
@moodCode	1..1	SHALL		67-12980	urn:oid:2.16.840.1.113883.5.100 1 (ActMood) = EVN
templateId	1..1	SHALL		67-19532	
@root	1..1	SHALL		67-19533	2.16.840.1.113883.10.20.24.3.98
id	1..*	SHALL		67-26992	
statusCode	1..1	SHALL		67-12981	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
reference	1..1	SHALL		67-12982	
@typeCode	1..1	SHALL		67-12983	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = REFR
externalDocument	1..1	SHALL		67-12984	
@classCode	1..1	SHALL		67-19534	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = DOC
id	1..*	SHALL		67-12985	
@root	1..1	SHALL		67-12986	
@extension	0..1	MAY		67-27007	
text	0..1	SHOULD		67-12997	

1. **SHALL** contain exactly one [1..1] **@classCode="CLUSTER"** cluster (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:67-12979).
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:67-12980).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:67-19532) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.98"** (CONF:67-19533).
4. **SHALL** contain at least one [1..*] **id** (CONF:67-26992).
5. **SHALL** contain exactly one [1..1] **statusCode="completed"** completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:67-12981).
6. **SHALL** contain exactly one [1..1] **reference** (CONF:67-12982) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:67-12983).
 - b. **SHALL** contain exactly one [1..1] **externalDocument** (CONF:67-12984).
 - i. This externalDocument **SHALL** contain exactly one [1..1] **@classCode="DOC"** Document (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:67-19534).
 - ii. This externalDocument **SHALL** contain at least one [1..*] **id** (CONF:67-12985) such that it
 1. **SHALL** contain exactly one [1..1] **@root** (CONF:67-12986).
 2. **MAY** contain zero or one [0..1] **@extension** (CONF:67-27007).
 3. This ID references an ID of the Quality Measure (CONF:67-27008).
 - iii. This externalDocument **SHOULD** contain zero or one [0..1] **text** (CONF:67-12997).
 1. This text is the title of the eMeasure (CONF:67-12998).

4.25.1 eMeasure Reference QDM

[organizer: identifier urn:oid:2.16.840.1.113883.10.20.24.3.97 (open)]

Table 129: eMeasure Reference QDM Contexts

Contained By:	Contains:
Measure Section QDM (required)	

This template defines the way that a QDM eMeasure should be referenced in a QDM-Based QRDA. An eMeasure is referenced through externalAct reference to an externalDocument. The externalDocument/ids and version numbers are used to reference the measure. The eMeasure Reference QDM template must contain a reference to the version specific identifier for each eMeasure: the QualityMeasureDocument/id.

In addition to referencing an eMeasure, this template allows one to assert whether or not the included patient data is believed by the sender to satisfy the various population criteria of the referenced eMeasure. For each population defined in a referenced eMeasure, the sender can assert “true” (set negationInd=“false”) or “false” (set negationInd=“true”), that the criteria are

met by the included data. For outcome measures, the sender can also assert the predicted probability that the patient would meet particular population criteria. For instance, based on an outcome measure's risk model, one might calculate that the patient has a 27% probability of meeting the numerator criteria.

Table 130: eMeasure Reference QDM Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
organizer (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.97)					
@classCode	1..1	SHALL		67-12805	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = CLUSTER
@moodCode	1..1	SHALL		67-12806	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
statusCode	1..1	SHALL		67-12807	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
reference	1..1	SHALL		67-12808	
@typeCode	1..1	SHALL		67-12809	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
externalDocument	1..1	SHALL		67-12810	
@classCode	1..1	SHALL		67-27017	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = DOC
id	1..1	SHALL		67-12811	
@root	1..1	SHALL		67-12812	2.16.840.1.113883.4.738
@extension	1..1	SHALL		67-12813	
code	0..1	SHOULD		67-12864	
@code	0..1	SHOULD		67-27015	57024-2
@codeSystem	0..1	SHOULD		67-27016	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
text	0..1	SHOULD		67-12865	
setId	0..1	SHOULD		67-12867	
versionNumber	0..1	SHOULD		67-12869	
component	0..*	MAY		67-16678	
observation	1..1	SHALL		67-16679	
@negationInd	1..1	SHALL		67-16680	
code	1..1	SHALL		67-16681	
@code	1..1	SHALL		67-16682	ASSERTION

@codeSystem	1..1	SHALL		67-27010	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
value	1..1	SHALL	CD	67-16683	
reference	1..1	SHALL		67-16684	
@typeCode	1..1	SHALL		67-16685	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
externalObservation	1..1	SHALL		67-16686	
@classCode	1..1	SHALL		67-16693	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		67-16694	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
id	1..1	SHALL		67-16687	
referenceRange	0..1	MAY		67-16689	
observationRange	1..1	SHALL		67-16690	
value	1..1	SHALL	REAL	67-16691	

1. Conforms to [Measure Reference](#) template (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.98).
2. **SHALL** contain exactly one [1..1] @classCode="CLUSTER" cluster (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:67-12805).
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:67-12806).
4. **SHALL** contain exactly one [1..1] statusCode="completed" completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:67-12807).
5. **SHALL** contain exactly one [1..1] **reference** (CONF:67-12808) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:67-12809).
 - b. **SHALL** contain exactly one [1..1] **externalDocument** (CONF:67-12810).
 - i. This externalDocument **SHALL** contain exactly one [1..1] @classCode="DOC" Document (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:67-27017).
 - ii. This externalDocument **SHALL** contain exactly one [1..1] **id** (CONF:67-12811) such that it
 1. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.4.738" (CONF:67-12812).

Note: This OID indicates that the @extension contains the version specific identifier for the eMeasure.

2. **SHALL** contain exactly one [1..1] **@extension** (CONF:67-12813).
Note: This @extension SHALL equal the version specific identifier for eMeasure (i.e., QualityMeasureDocument/id)
- iii. This externalDocument **SHOULD** contain zero or one [0..1] **code** (CONF:67-12864).
 1. The code, if present, **SHOULD** contain zero or one [0..1] **@code**="57024-2" Health Quality Measure Document (CONF:67-27015).
 2. The code, if present, **SHOULD** contain zero or one [0..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:67-27016).
- iv. This externalDocument **SHOULD** contain zero or one [0..1] **text** (CONF:67-12865).
 1. This text **SHALL** equal the title of the eMeasure (CONF:67-12866).
- v. This externalDocument **SHOULD** contain zero or one [0..1] **setId** (CONF:67-12867).
 1. This setId **SHALL** equal the QualityMeasureDocument/setId which is the eMeasure version neutral id (CONF:67-12868).
- vi. This externalDocument **SHOULD** contain zero or one [0..1] **versionNumber** (CONF:67-12869).
 1. The version number **SHALL** equal the sequential eMeasure Version number (CONF:67-12870).
6. **MAY** contain zero or more [0..*] **component** (CONF:67-16678).
 - a. The component, if present, **SHALL** contain exactly one [1..1] **observation** (CONF:67-16679).

Set negationInd="false" to assert true (that the criteria are met by the included data). Set negationInd="true" to assert false (that the criteria are not met by the included data).

- i. This observation **SHALL** contain exactly one [1..1] **@negationInd** (CONF:67-16680).
- ii. This observation **SHALL** contain exactly one [1..1] **code** (CONF:67-16681).
 1. This code **SHALL** contain exactly one [1..1] **@code**="ASSERTION" Assertion (CONF:67-16682).
 2. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:67-27010).
- iii. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:67-16683).
- iv. This observation **SHALL** contain exactly one [1..1] **reference** (CONF:67-16684).
 1. This reference **SHALL** contain exactly one [1..1] **@typeCode**="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:67-16685).

2. This reference **SHALL** contain exactly one [1..1] **externalObservation** (CONF:67-16686).
 - a. This externalObservation **SHALL** contain exactly one [1..1] **@classCode="OBS"** Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:67-16693).
 - b. This externalObservation **SHALL** contain exactly one [1..1] **@moodCode="EVN"** (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:67-16694).
 - c. This externalObservation **SHALL** contain exactly one [1..1] **id** (CONF:67-16687).
 - i. This identifier **SHALL** be equal to a population criterion identifier in the referenced eMeasure. (This is necessary because a referenced eMeasure can have multiple numerator populations) (CONF:67-16688).
- v. This observation **MAY** contain zero or one [0..1] **referenceRange** (CONF:67-16689).
 1. The referenceRange, if present, **SHALL** contain exactly one [1..1] **observationRange** (CONF:67-16690).
 - a. This observationRange **SHALL** contain exactly one [1..1] **value** with **@xsi:type="REAL"** (CONF:67-16691).
 2. The referenceRange is used to indicate the probability that the patient would meet the corresponding population criteria. It is relevant for outcome measures, where predictive models allow for calculating the probability that a patient would meet the criteria of a given population (CONF:67-16692).

Figure 59: eMeasure Reference QDM Example

```

<!-- 1..* Organizers, each containing a reference to an eMeasure -->
<entry>
  <organizer classCde="CLUSTER" moodCode="EVN">
    <!-- This is the templateId for Measure Reference -->
    <templateId root="2.16.840.1.113883.10.20.24.3.98"/>
    <!-- This is the templateId for eMeasure Reference QDM -->
    <templateId root="2.16.840.1.113883.10.20.24.3.97"/>
    <statusCode code="completed"/>
    <reference typeCode="REFR">
      <externalDocument classCode="DOC" moodCode="EVN">
        <!-- SHALL: This is the version specific identifier for eMeasure:
        QualityMeasureDocument/id - the OID in the @root indicates that
        the @extension (which is a GUID) contains the version specific identifier for
        eMeasure -->
        <id root="2.16.840.1.113883.4.738" extension="8a4d92b2-373f-82e2-0137-
        7b9e21cc5c8f"/>
        <!-- SHOULD: This is the NQF Number, root is an NQF OID and for
        eMeasure Number and extension is the eMeasure's NQF number -->
        <id root="2.16.840.1.113883.3.560.1" extension="0143"/>
        <!-- SHOULD: eMeasure Measure Authoring Tool Identifier (not the real
        root yet-->
        <id root="2.16.840.1.113883.3.560.101.2" extension="93"/>
        <!-- SHOULD This is the title of the eMeasure -->
        <text>Children's Asthma Care (CAC-1) Relievers for Inpatient
        Asthma</text>
        <!-- SHOULD: setId is the eMeasure version neutral id -->
        <setId root="dc78ee5d-1487-4d79-84c3-1dfdaaff0781c"/>
        <!-- This is the sequential eMeasure Version number -->
        <versionNumber value="1"/>
      </externalDocument>
    </reference>
    <component>
      <!-- assert whether the patient did/didn't meet the criteria -->
      <!-- Set negationInd="false" to assert true (that the criteria are
      met by the included data).
      Set negationInd="true" to assert false (that the criteria are not
      met by the included data). -->
      <observation classCode="OBS" moodCode="EVN" negationInd="true|false">
        <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"/>
        <value xsi:type="CD"
        code="DENEXCEP"
        codeSystem="2.16.840.1.113883.5.1063"
        codeSystemName="HL7 Observation Value"
        displayName="Denominator Exception"/>
        <!-- Explicit reference to the eMeasure population (because some
        eMeasures have multiple Numerators, etc -->
        <reference typeCode="REFR">
          <externalObservation classCode="OBS" moodCode="EVN">
            <id root="0C13A447-B884-4C09-8374-09D2E4264034"/>
          </externalObservation>
        </reference>
        <!-- predicted probability that patient would meet the criteria -->
        <referenceRange>
          <observationRange>
            <value xsi:type="REAL" value="0.27"/>
          </observationRange>
        </referenceRange>
      </observation>
    </component>
  </reference>
</organizer>
</entry>

```

```

        </observationRange>
    </referenceRange>
</observation>
</component>
</organizer>
</entry>

```

4.26 Medication Activity (V2)

[substanceAdministration: identifier
urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09 (open)]

Table 131: Medication Activity (V2) Contexts

Contained By:	Contains:
Reaction Observation (V2) (optional) Procedure Activity Act (V2) (optional) Procedure Activity Procedure (V2) (optional) Procedure Activity Observation (V2) (optional) Medication Administered (V2) (required)	Author Participation Drug Monitoring Act Drug Vehicle Indication (V2) Instruction (V2) Medication Dispense (V2) Medication Information (V2) Medication Supply Order (V2) Precondition for Substance Administration (V2) Reaction Observation (V2) Substance Administered Act

A Medication Activity describes substance administrations that have actually occurred (e.g., pills ingested or injections given) or are intended to occur (e.g., "take 2 tablets twice a day for the next 10 days"). Medication activities in "INT" mood are reflections of what a clinician intends a patient to be taking. For example, a clinician may intend that a patient to be administered Lisinopril 20 mg PO for blood pressure control. If what was actually administered was Lisinopril 10 mg., then the Medication activities in the "EVN" mood would reflect actual use.

A moodCode of INT is allowed, but it is recommended that the Planned Medication Activity (V2) template be used for moodCodes other than EVN if the document type contains a section that includes Planned Medication Activity (V2) (for example a Care Plan document with Plan of Treatment, Intervention, or Goal sections).

At a minimum, a Medication Activity shall include an effectiveTime indicating the duration of the administration (or single-administration timestamp). Ambulatory medication lists generally provide a summary of use for a given medication over time - a medication activity in event mood with the duration reflecting when the medication started and stopped. Ongoing medications will not have a stop date (or will have a stop date with a suitable NULL value). Ambulatory medication lists will generally also have a frequency (e.g., a medication is being taken twice a day). Inpatient medications generally record each administration as a separate act.

The dose (doseQuantity) represents how many of the consumables are to be administered at each administration event. As a result, the dose is always relative to the consumable and the interval of administration. Thus, a patient consuming a single "metoprolol 25mg tablet" per administration will have a doseQuantity of "1", whereas a patient consuming "metoprolol" will have a dose of "25 mg".

Table 132: Medication Activity (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
substanceAdministration (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09)					
@classCode	1..1	SHALL		1098-7496	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SBADM
@moodCode	1..1	SHALL		1098-7497	urn:oid:2.16.840.1.113883.11.20.9.18 (MoodCodeEvnInt)
templateId	1..1	SHALL		1098-7499	
@root	1..1	SHALL		1098-10504	2.16.840.1.113883.10.20.22.4.16
@extension	1..1	SHALL		1098-32498	2014-06-09
id	1..*	SHALL		1098-7500	
code	0..1	MAY		1098-7506	
statusCode	1..1	SHALL		1098-7507	
@code	1..1	SHALL		1098-32360	urn:oid:2.16.840.1.113883.1.11.159331 (ActStatus)
effectiveTime	1..1	SHALL	IVL_TS	1098-7508	
@value	0..1	SHOULD		1098-32775	
low	0..1	SHOULD		1098-32776	
high	0..1	MAY		1098-32777	
effectiveTime	0..1	SHOULD		1098-7513	
@operator	1..1	SHALL		1098-9106	A
repeatNumber	0..1	MAY		1098-7555	
routeCode	0..1	SHOULD		1098-7514	urn:oid:2.16.840.1.113883.3.88.12.3221.8.7 (Medication Route FDA)
approachSiteCode	0..1	MAY	SET<CD>	1098-7515	urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 (Body Site)
doseQuantity	1..1	SHALL		1098-7516	
@unit	0..1	SHOULD		1098-7526	urn:oid:2.16.840.1.113883.1.11.12839 (UnitsOfMeasureCaseSensitive)
rateQuantity	0..1	MAY		1098-	

				7517	
@unit	1..1	SHALL		1098-7525	urn:oid:2.16.840.1.113883.1.11.12839 (UnitsOfMeasureCaseSensitive)
maxDoseQuantity	0..1	MAY	RTO<P Q, PQ>	1098-7518	
administrationUnitCode	0..1	MAY		1098-7519	urn:oid:2.16.840.1.113883.1.11.14570 (AdministrableDrugForm)
consumable	1..1	SHALL		1098-7520	
manufacturedProduct	1..1	SHALL		1098-16085	Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.23:2014-06-09)
performer	0..1	MAY		1098-7522	
author	0..*	SHOULD		1098-31150	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	0..*	MAY		1098-7523	
@typeCode	1..1	SHALL		1098-7524	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CSM
participantRole	1..1	SHALL		1098-16086	Drug Vehicle (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.24)
entryRelationship	0..*	MAY		1098-7536	
@typeCode	1..1	SHALL		1098-7537	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1098-16087	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.19:2014-06-09)
entryRelationship	0..1	MAY		1098-7539	
@typeCode	1..1	SHALL		1098-7540	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1098-7542	true
act	1..1	SHALL		1098-31387	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.20:2014-06-09)
entryRelationship	0..1	MAY		1098-7543	
@typeCode	1..1	SHALL		1098-7547	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR

supply	1..1	SHALL		1098-16089	Medication Supply Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.17:2014-06-09)
entryRelationship	0..*	MAY		1098-7549	
@typeCode	1..1	SHALL		1098-7553	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
supply	1..1	SHALL		1098-16090	Medication Dispense (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.18:2014-06-09)
entryRelationship	0..1	MAY		1098-7552	
@typeCode	1..1	SHALL		1098-7544	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = CAUS
observation	1..1	SHALL		1098-16091	Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.9:2014-06-09)
entryRelationship	0..1	MAY		1098-30820	
@typeCode	1..1	SHALL		1098-30821	COMP
act	1..1	SHALL		1098-30822	Drug Monitoring Act (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.123)
entryRelationship	0..*	MAY		1098-31515	
@typeCode	1..1	SHALL		1098-31516	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
@inversionInd	1..1	SHALL		1098-31517	true
sequenceNumber	0..1	MAY		1098-31518	
act	1..1	SHALL		1098-31519	Substance Administered Act (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.118)
precondition	0..*	MAY		1098-31520	
@typeCode	1..1	SHALL		1098-31882	PRCN
criterion	1..1	SHALL		1098-31883	Precondition for Substance Administration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.25:2014-06-09)

1. **SHALL** contain exactly one [1..1] **@classCode**="SBADM" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7496).
2. **SHALL** contain exactly one [1..1] **@moodCode**, which **SHALL** be selected from ValueSet [MoodCodeEvnInt](#) urn:oid:2.16.840.1.113883.11.20.9.18 **STATIC** 2011-04-03 (CONF:1098-7497).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7499) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.16" (CONF:1098-10504).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32498).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-7500).
5. **MAY** contain zero or one [0..1] **code** (CONF:1098-7506).
 Note: SubstanceAdministration.code is an optional field. Per HL7 Pharmacy Committee, "this is intended to further specify the nature of the substance administration act. To date the committee has made no use of this attribute". Because the type of substance administration is generally implicit in the routeCode, in the consumable participant, etc., the field is generally not used, and there is no defined value set.
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7507).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [ActStatus](#) urn:oid:2.16.840.1.113883.1.11.159331 **DYNAMIC** (CONF:1098-32360).

The substance administration effectiveTime field can repeat, in order to represent varying levels of complex dosing. effectiveTime can be used to represent the duration of administration (e.g., "10 days"), the frequency of administration (e.g., "every 8 hours"), and more. Here, we require that there SHALL be an effectiveTime documentation of the duration (or single-administration timestamp), and that there SHOULD be an effectiveTime documentation of the frequency. Other timing nuances, supported by the base CDA R2 standard, may also be included.

7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-7508) such that it
 Note: This effectiveTime represents either the medication duration (i.e., the time the medication was started and stopped) or the single-administration timestamp.
 - a. **SHOULD** contain zero or one [0..1] **@value** (CONF:1098-32775).
 Note: indicates a single-administration timestamp
 - b. **SHOULD** contain zero or one [0..1] **low** (CONF:1098-32776).
 Note: indicates when medication started
 - c. **MAY** contain zero or one [0..1] **high** (CONF:1098-32777).
 Note: indicates when medication stopped
 - d. This effectiveTime **SHALL** contain either a low or a @value but not both (CONF:1098-32890).
8. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-7513) such that it
 Note: This effectiveTime represents the medication frequency (e.g., administration times per day).
 - a. **SHALL** contain exactly one [1..1] **@operator**="A" (CONF:1098-9106).
 - b. **SHALL** contain exactly one [1..1] **@xsi:type**="PIVL_TS" or "EIVL_TS" (CONF:1098-28499).

In "INT" (intent) mood, the repeatNumber defines the number of allowed administrations. For example, a repeatNumber of "3" means that the substance can be administered up to 3 times. In "EVN" (event) mood, the repeatNumber is the number of occurrences. For example, a repeatNumber of "3" in a substance administration event means that the current administration is the 3rd in a series.

9. **MAY** contain zero or one [0..1] **repeatNumber** (CONF:1098-7555).
10. **SHOULD** contain zero or one [0..1] **routeCode**, which **SHALL** be selected from ValueSet [Medication Route FDA](#) urn:oid:2.16.840.1.113883.3.88.12.3221.8.7 **DYNAMIC** (CONF:1098-7514).
11. **MAY** contain zero or one [0..1] **approachSiteCode**, where the code **SHALL** be selected from ValueSet [Body Site](#) urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 **DYNAMIC** (CONF:1098-7515).
12. **SHALL** contain exactly one [1..1] **doseQuantity** (CONF:1098-7516).
 - a. This doseQuantity **SHOULD** contain zero or one [0..1] **@unit**, which **SHALL** be selected from ValueSet [UnitsOfMeasureCaseSensitive](#) urn:oid:2.16.840.1.113883.1.11.12839 **DYNAMIC** (CONF:1098-7526).
 - b. Pre-coordinated consumable: If the consumable code is a pre-coordinated unit dose (e.g., "metoprolol 25mg tablet") then doseQuantity is a unitless number that indicates the number of products given per administration (e.g., "2", meaning 2 x "metoprolol 25mg tablet" per administration) (CONF:1098-16878).
 - c. Not pre-coordinated consumable: If the consumable code is not pre-coordinated (e.g., is simply "metoprolol"), then doseQuantity must represent a physical quantity with **@unit**, e.g., "25" and "mg", specifying the amount of product given per administration (CONF:1098-16879).
13. **MAY** contain zero or one [0..1] **rateQuantity** (CONF:1098-7517).
 - a. The rateQuantity, if present, **SHALL** contain exactly one [1..1] **@unit**, which **SHALL** be selected from ValueSet [UnitsOfMeasureCaseSensitive](#) urn:oid:2.16.840.1.113883.1.11.12839 **DYNAMIC** (CONF:1098-7525).
14. **MAY** contain zero or one [0..1] **maxDoseQuantity** (CONF:1098-7518).
15. **MAY** contain zero or one [0..1] **administrationUnitCode**, which **SHALL** be selected from ValueSet [AdministrableDrugForm](#) urn:oid:2.16.840.1.113883.1.11.14570 **DYNAMIC** (CONF:1098-7519).
16. **SHALL** contain exactly one [1..1] **consumable** (CONF:1098-7520).
 - a. This consumable **SHALL** contain exactly one [1..1] [Medication Information \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09) (CONF:1098-16085).
17. **MAY** contain zero or one [0..1] **performer** (CONF:1098-7522).
18. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-31150).
19. **MAY** contain zero or more [0..*] **participant** (CONF:1098-7523) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CSM" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1098-7524).
 - b. **SHALL** contain exactly one [1..1] [Drug Vehicle](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.24) (CONF:1098-16086).

20. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-7536) such that it
- SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7537).
 - SHALL** contain exactly one [1..1] **Indication (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-16087).
21. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-7539) such that it
- SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7540).
 - SHALL** contain exactly one [1..1] **@inversionInd="true"** True (CONF:1098-7542).
 - SHALL** contain exactly one [1..1] **Instruction (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-31387).
22. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-7543) such that it
- SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7547).
 - SHALL** contain exactly one [1..1] **Medication Supply Order (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.17:2014-06-09) (CONF:1098-16089).
23. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-7549) such that it
- SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7553).
 - SHALL** contain exactly one [1..1] **Medication Dispense (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.18:2014-06-09) (CONF:1098-16090).
24. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-7552) such that it
- SHALL** contain exactly one [1..1] **@typeCode="CAUS"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7544).
 - SHALL** contain exactly one [1..1] **Reaction Observation (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09) (CONF:1098-16091).
25. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-30820) such that it
- SHALL** contain exactly one [1..1] **@typeCode="COMP"** Has component (CONF:1098-30821).
 - SHALL** contain exactly one [1..1] **Drug Monitoring Act** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.123) (CONF:1098-30822).

The following entryRelationship is used to indicate a given medication's order in a series. The nested Substance Administered Act identifies an administration in the series. The entryRelationship/sequenceNumber shows the order of this particular administration in that series.

26. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31515) such that it
- SHALL** contain exactly one [1..1] **@typeCode="COMP"** Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31516).
 - SHALL** contain exactly one [1..1] **@inversionInd="true"** (CONF:1098-31517).
 - MAY** contain zero or one [0..1] **sequenceNumber** (CONF:1098-31518).
 - SHALL** contain exactly one [1..1] **Substance Administered Act** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.118) (CONF:1098-31519).
27. **MAY** contain zero or more [0..*] **precondition** (CONF:1098-31520).
- The precondition, if present, **SHALL** contain exactly one [1..1] **@typeCode="PRCN"** (CONF:1098-31882).
 - The precondition, if present, **SHALL** contain exactly one [1..1] **Precondition for Substance Administration (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.25:2014-06-09) (CONF:1098-31883).
28. Medication Activity **SHOULD** include doseQuantity **OR** rateQuantity (CONF:1098-30800).

Table 133: MoodCodeEvnInt

Value Set: MoodCodeEvnInt urn:oid:2.16.840.1.113883.11.20.9.18			
Contains moodCode EVN and INT			
Value Set Source:			
http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
EVN	ActMood	urn:oid:2.16.840.1.113883.5.1001	Event
INT	ActMood	urn:oid:2.16.840.1.113883.5.1001	Intent

Table 134: Medication Route FDA

Value Set: Medication Route FDA urn:oid:2.16.840.1.113883.3.88.12.3221.8.7

Route of Administration value set is based upon FDA Drug Registration and Listing Database (FDA Orange Book) which are used in FDA Structured Product Labeling (SPL).

Value Set Source:

<https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.3221.8.7>

Code	Code System	Code System OID	Print Name
C38192	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	AURICULAR (OTIC)
C38193	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	BUCCAL
C38194	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	CONJUNCTIVAL
C38675	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	CUTANEOUS
C38197	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	DENTAL
C38633	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	ELECTRO-OSMOSIS
C38205	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	ENDOCERVICAL
C38206	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	ENDOSINUSIAL
C38208	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	ENDOTRACHEAL
C38209	FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1	ENTERAL
...			

Table 135: Body Site

Value Set: Body Site urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 Contains values descending from the SNOMED CT® Anatomical Structure (91723000) hierarchy or Acquired body structure (body structure) (280115004) or Anatomical site notations for tumor staging (body structure) (258331007) or Body structure, altered from its original anatomical structure (morphologic abnormality) (118956008) or Physical anatomical entity (body structure) (91722005) This indicates the anatomical site. Value Set Source: http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.3221.8.9			
Code	Code System	Code System OID	Print Name
362783006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	entire medial surface of lower extremity (body structure)
302539009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	entire hand (body structure)
287679003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	left hip region structure (body structure)
3341006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	right lung structure (body structure)
87878005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	left ventricular structure (body structure)
49848007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	structure of myocardium of left ventricle (body structure)
38033009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	amputation stump (body structure)
305005006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	6/7 interchondral joint (body structure)
28726007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	corneal structure (body structure)
75324005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	70 to 79 percent of body surface (body structure)
...			

Table 136: UnitsOfMeasureCaseSensitive

Value Set: UnitsOfMeasureCaseSensitive urn:oid:2.16.840.1.113883.1.11.12839			
The UCUM code system provides a set of structural units from which working codes are built. There is an unlimited number of possible valid UCUM codes.			
Value Set Source: http://unitsofmeasure.org/ucum.html			
Code	Code System	Code System OID	Print Name
min	UCUM	urn:oid:2.16.840.1.113883.6.8	minute
hour	UCUM	urn:oid:2.16.840.1.113883.6.8	hr
%	UCUM	urn:oid:2.16.840.1.113883.6.8	percent
cm	UCUM	urn:oid:2.16.840.1.113883.6.8	centimeter
g	UCUM	urn:oid:2.16.840.1.113883.6.8	gram
g/(12.h)	UCUM	urn:oid:2.16.840.1.113883.6.8	gram per 12 hour
g/L	UCUM	urn:oid:2.16.840.1.113883.6.8	gram per liter
mol	UCUM	urn:oid:2.16.840.1.113883.6.8	mole
[IU]	UCUM	urn:oid:2.16.840.1.113883.6.8	international unit
Hz	UCUM	urn:oid:2.16.840.1.113883.6.8	Hertz
...			

Table 137: AdministrableDrugForm

Value Set: AdministrableDrugForm urn:oid:2.16.840.1.113883.1.11.14570 Indicates the form in which the drug product should be administered. Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
PUFF	orderableDrugForm	urn:oid:2.16.840.1.113883.5.85	Puff
SCOOP	orderableDrugForm	urn:oid:2.16.840.1.113883.5.85	Scoops
APPFUL	orderableDrugForm	urn:oid:2.16.840.1.113883.5.85	Applicatorful
DROP	orderableDrugForm	urn:oid:2.16.840.1.113883.5.85	Drops
SPRY	orderableDrugForm	urn:oid:2.16.840.1.113883.5.85	Sprays
...			

Figure 60: Medication Activity (V2) Example

```
<substanceAdministration classCode="SBADM" moodCode="EVN">
  <!-- ** Medication Activity (V2) ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.16"
    extension="2014-06-09"/>
  <id root="6c844c75-aa34-411c-b7bd-5e4a9f206e29"/>
  <statusCode code="active"/>
  <effectiveTime xsi:type="IVL_TS">
    <low value="20120318"/>
  </effectiveTime>
  <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true" operator="A">
    <period value="12" unit="h"/>
  </effectiveTime>
  <routeCode code="C38288"
    codeSystem="2.16.840.1.113883.3.26.1.1"
    codeSystemName="NCI Thesaurus"
    displayName="ORAL"/>
  <doseQuantity value="1"/>
  <consumable>
    <manufacturedProduct classCode="MANU">
      <!-- ** Medication information ** -->
      <templateId root="2.16.840.1.113883.10.20.22.4.23"
        extension="2014-06-09"/>
      <id root="2a620155-9d11-439e-92b3-5d9815ff4ee8"/>
      <manufacturedMaterial>
        <code code="197380"
          displayName="Atenolol 25 MG Oral Tablet"
          codeSystem="2.16.840.1.113883.6.88" codeSystemName="RxNorm"/>
      </manufacturedMaterial>
    </manufacturedProduct>
  </consumable>
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <!-- ** Indication ** -->
      <templateId root="2.16.840.1.113883.10.20.22.4.19"
        extension="2014-06-09"/>
      <id root="e63166c7-6482-4a44-83a1-37ccdbde725b"/>
      <code code="75321-0"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Clinical finding"/>
      <statusCode code="completed"/>
      <value xsi:type="CD"
        code="38341003"
        displayName="Hypertension"
        codeSystem="2.16.840.1.113883.6.96"/>
    </observation>
  </entryRelationship>
</substanceAdministration>
```


Figure 61: No Known Medications Example

```
<substanceAdministration classCode="SBADM" moodCode="EVN" negationInd="true">
  <!-- ** Medication activity ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.16" extension="2014-06-09" />
  <id root="072f00fc-4f9d-4516-8d6f-ed00ed523fe0" />
  <statusCode code="active" />
  <effectiveTime xsi:type="IVL_TS">
    <low value="20110103" />
  </effectiveTime>
  <consumable>
    <manufacturedProduct classCode="MANU">
      <!-- ** Medication information ** -->
      <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-06-09" />
      <manufacturedMaterial>
        <code nullFlavor="OTH" codeSystem="2.16.840.1.113883.6.88">
          <translation code="410942007" displayName="drug or medication"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
        </code>
      </manufacturedMaterial>
    </manufacturedProduct>
  </consumable>
</substanceAdministration>
```

4.26.1 Medication Active (V2)

[substanceAdministration: identifier
urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01 (open)]

Table 138: Medication Active (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional) Discharge Medication - Active Medication (V2) (required)	Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Medication, Active.

Data elements that meet criteria using this datatype should document that the medication indicated by the QDM category and its corresponding value set is being taken by the patient. Keep in mind that when this datatype is used with timing relationships, the criterion is looking for a medication being taken for the time frame indicated by the timing relationships (which could be in the past).

This datatype represents a period of time when a medication is considered active for an individual. This may be medications that the patient has taken in the past and is no longer taking or medications that the patient is currently taking. For medications that a patient has taken in the past the effectiveTime will represent the period of time over which the patient was actively taking the medication. A time/date stamp is required. For currently active medications the effectiveTime will contain a low value which equates to the time the patient started taking medication and a nullFlavored high value. ActStatus is constrained to “active” and moodCode is constrained to “EVN”.

Quality measures are sometimes interested in the total time a patient has been on a medication over time (for example, how many total years a patient has been on birth control hormones in the past 5 years). This cumulative medication duration would be represented as separate substance administration and the cumulative duration calculated. For example, the sum of the number of medication dispensed days x number of medication refills over a set period of time, excluding any gaps during which a medication was not dispensed. For example, if a medication was prescribed for 30 days with three refills, followed by a gap of three months, then prescribed again for 60 days with two refills, the cumulative medication duration for would be $(30 \times 3) + (60 \times 2) = 210$ days over the 10-month period.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 139: Medication Active (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
substanceAdministration (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01)					
@moodCode	1..1	SHALL		1140-12081	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28079	
templateId	1..1	SHALL		1140-12082	
@root	1..1	SHALL		1140-12083	2.16.840.1.113883.10.20.24.3.41
@extension	1..1	SHALL		1140-26558	2014-12-01
statusCode	1..1	SHALL		1140-12412	
@code	1..1	SHALL		1140-12413	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
routeCode	0..1	MAY		1140-27641	
@sdtc:valueSet	0..1	SHOULD		1140-27644	
translation	0..*	MAY		1140-27642	
@sdtc:valueSet	1..1	SHALL		1140-27645	
administrationUnitCode	0..1	MAY		1140-27643	
@sdtc:valueSet	1..1	SHALL		1140-27646	
entryRelationship	0..1	MAY		1140-12085	
@typeCode	1..1	SHALL		1140-12086	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27259	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12088	
@typeCode	1..1	SHALL		1140-12089	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27260	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

entryRelationship	0..1	MAY		1140-28005	
@typeCode	1..1	SHALL		1140-28006	RSON
observation	1..1	SHALL		1140-28007	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Medication Activity \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12081).
3. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28079).
4. **SHALL** contain exactly one [1..1] templateId (CONF:1140-12082) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.41" (CONF:1140-12083).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-26558).
5. **SHALL** contain exactly one [1..1] statusCode (CONF:1140-12412).
 - a. This statusCode **SHALL** contain exactly one [1..1] @code="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-12413).

If the code used for QDM Attribute: Route does not exist in the value set Medication Route FDA (2.16.840.1.113883.3.88.12.3221.8.7) then set routeCode/@nullFlavor="OTH", routeCode/@codeSystem="2.16.840.1.113883.3.26.1.1" and use translation for the code.

6. **MAY** contain zero or one [0..1] routeCode (CONF:1140-27641).
 - a. The routeCode, if present, **SHOULD** contain zero or one [0..1] @sdct:valueSet (CONF:1140-27644).
 - b. The routeCode, if present, **MAY** contain zero or more [0..*] translation (CONF:1140-27642).
 - i. The translation, if present, **SHALL** contain exactly one [1..1] @sdct:valueSet (CONF:1140-27645).
7. **MAY** contain zero or one [0..1] administrationUnitCode (CONF:1140-27643).
 - a. The administrationUnitCode, if present, **SHALL** contain exactly one [1..1] @sdct:valueSet (CONF:1140-27646).
8. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12085) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12086).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27259).
9. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12088) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12089).

- b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27260).
- 10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-28005) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has reason (CONF:1140-28006).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-28007).

Figure 62: Medication Active (V2) Example

```
<substanceAdministration classCode="SBADM" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Medication Activity (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.16" extension="2014-06-09" />
  <!-- Medication Active (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.41" extension="2014-12-01" />
  <id root="c0ea7bf3-50e7-4e7a-83a3-e5a9ccbb8541" />
  <statusCode code="active" />
  <effectiveTime xsi:type="IVL_TS">
    <!-- QDM Attribute: Start datetime -->
    <low value="20110301" />
    <!-- QDM Attribute: Stop datetime -->
    <high value="20120301" />
  </effectiveTime>
  <!-- QDM Attribute: Frequency -->
  <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true" operator="A">
    <period value="6" unit="h" />
  </effectiveTime>
  <!-- QDM Attribute: Route -->
  <routeCode code="C38288"
    codeSystem="2.16.840.1.113883.3.26.1.1"
    codeSystemName="NCI Thesaurus"
    displayName="ORAL"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute: Dose -->
  <doseQuantity value="1" />
  <consumable>
    <manufacturedProduct classCode="MANU">
      <!-- Conforms to C-CDA R2 Medication Information (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-06-09" />
      <id root="37bfe02a-3e97-4bd6-9197-bbd0ed0de79e" />
      <manufacturedMaterial>
        <code code="105152" codeSystem="2.16.840.1.113883.6.88"
          codeSystemName="RxNorm"
          displayName="Amoxicillin 60 MG/ML Oral Suspension"
          sdtc:valueSet="{ $QDMElementValueSetOID}" />
      </manufacturedMaterial>
    </manufacturedProduct>
  </consumable>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</substanceAdministration>
```

4.27 Medication Administered (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.42:2014-12-01 (open)]

Table 140: Medication Administered (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Medication Activity (V2) Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatypes: Medication, Administered and Substance, Administered.

This template represents a record by the care provider that a medication actually was administered. Appropriate time/date stamps for all medication administration are generated. This correlates with medications whose administration time is documented in an inpatient Medication Administration Record (MAR) as contrasted with an historical list of medication. This is represented by wrapping a Medication Activity template in an act with an actCode of "administration" a SNOMED CT procedure code.

Quality measures are sometimes interested in the total time a patient has been on a medication over time (for example, how many total years a patient has been on birth control hormones in the past 5 years). This cumulative medication duration would be represented as separate contained substance administrations and the cumulative duration calculated. For example, the sum of the number of medication dispensed days x number of medication refills over a set period of time, excluding any gaps during which a medication was not dispensed. For example, if a medication was prescribed for 30 days with three refills, followed by a gap of three months, then prescribed again for 60 days with two refills, the cumulative medication duration for would be $(30 \times 3) + (60 \times 2) = 210$ days over the 10-month period.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.

Table 141: Medication Administered (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.42:2014-12-01)					
@classCode	1..1	SHALL		1140-12444	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-12445	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28080	
templateId	1..1	SHALL		1140-12446	
@root	1..1	SHALL		1140-12447	2.16.840.1.113883.10.20.24.3.42
@extension	1..1	SHALL		1140-27023	2014-12-01
id	1..*	SHALL		1140-12448	
code	1..1	SHALL		1140-12449	
@code	1..1	SHALL		1140-12450	416118004
@codeSystem	1..1	SHALL		1140-28129	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
statusCode	1..1	SHALL		1140-12452	
@code	1..1	SHALL		1140-13241	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-26714	
entryRelationship	1..*	SHALL		1140-12454	
@typeCode	1..1	SHALL		1140-12455	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
substanceAdministration	1..1	SHALL		1140-12456	Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09)
@moodCode	1..1	SHALL		1140-12457	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
entryRelationship	0..1	MAY		1140-12458	
@typeCode	1..1	SHALL		1140-12459	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON

observation	1..1	SHALL		1140-27239	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12461	
@typeCode	1..1	SHALL		1140-12462	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27240	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-27022	
@typeCode	1..1	SHALL		1140-27024	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27162	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.88:2014-12-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12444).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12445).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28080).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12446) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.42" (CONF:1140-12447).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27023).
5. **SHALL** contain at least one [1..*] **id** (CONF:1140-12448).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12449).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="416118004" administration (CONF:1140-12450).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-28129).
7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-12452).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-13241).

This effectiveTime should be used for capturing the actual medication administered time.

8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-26714).
9. **SHALL** contain at least one [1..*] **entryRelationship** (CONF:1140-12454) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12455).
 - b. **SHALL** contain exactly one [1..1] [Medication Activity \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09) (CONF:1140-12456).
 - i. This substanceAdministration **SHALL** contain exactly one [1..1] **@moodCode="EVN"** (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12457).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12458) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12459).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27239).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12461) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12462).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27240).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27022) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27024).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27162).

Figure 63: Medication Administered (V2) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Medication administered -->
  <templateId root="2.16.840.1.113883.10.20.24.3.42" extension="2014-12-01" />
  <id root="60f33340-591f-4459-9fa2-1c93e014a6e2" />
  <code code="416118004" displayName="Administration"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start datetime -->
    <low value="20110301150000+0500" />
    <!-- QDM Attribute: Stop datetime -->
    <high value="20110301150000+0500" />
  </effectiveTime>
  <entryRelationship typeCode="COMP">
    <substanceAdministration classCode="SBADM" moodCode="EVN">
      <!-- C-CDA R2 Medication Activity -->
      <templateId root="2.16.840.1.113883.10.20.22.4.16" extension="2014-06-09" />
      <id root="9069c123-80ad-47c8-a633-9dc02018ae56" />
      <statusCode code="completed" />
      <effectiveTime xsi:type="IVL_TS">
        <low value="20110301150000+0500" />
        <high value="20110301150000+0500" />
      </effectiveTime>
      <!-- QDM Attribute: Frequency -->
      <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true" operator="A">
        <period value="6" unit="h" />
      </effectiveTime>
      <!-- QDM Attribute: Route -->
      <routeCode code="C38288" codeSystem="2.16.840.1.113883.3.26.1.1"
        codeSystemName="NCI Thesaurus" displayName="ORAL"
        sdct:valueSet="{ $QDMElementValueSetOID }" />
      <!-- QDM Attribute: Dose -->
      <doseQuantity value="1" />
      <consumable>
        <manufacturedProduct classCode="MANU">
          <!-- Confirms to C-CDA R2 Medication Information (V2) -->
          <templateId root="2.16.840.1.113883.10.20.22.4.23"
            extension="2014-06-09" />
          <id root="37bfe02a-3e97-4bd6-9197-bbd0ed0de79e" />
          <manufacturedMaterial>
            <code code="105152" codeSystem="2.16.840.1.113883.6.88"
              codeSystemName="RxNorm"
              displayName="Amoxicillin 60 MG/ML Oral Suspension"
              sdct:valueSet="{ $QDMElementValueSetOID }" />
          </manufacturedMaterial>
        </manufacturedProduct>
      </consumable>
    </substanceAdministration>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Patient Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```

```

    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>

```

Figure 64: Medication Administered - Not Done (Negation Rationale) - Example

```
<!--Medication administered not done,
  patient refusal: Drug declined by patient - reason unknown.
  "No "Antibiotic Medications for Pharyngitis" were administered -->
<act classCode="ACT" moodCode="EVN" negationInd="true">
  <templateId root="2.16.840.1.113883.10.20.24.3.42" extension="2014-12-01" />
  <id root="517d5bbb-03a8-4400-8a78-754321641159" />
  <code code="416118004" displayName="Administration"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20110302090000+0500" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20110302090000+0500" />
  </effectiveTime>

  <entryRelationship typeCode="COMP">
    <substanceAdministration classCode="SBADM" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Medication Activity (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.16" extension="2014-06-09" />
      <!-- Medication, Active (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.41" extension="2014-12-01" />
      <id root="9a5f4d94-ccad-4d57-80ea-27737545c7ed" />
      <statusCode code="active" />
      <effectiveTime xsi:type="IVL_TS">
        <low nullFlavor="NA" />
      </effectiveTime>
      <doseQuantity nullFlavor="NA" />
      <consumable>
        <manufacturedProduct classCode="MANU">
          <!-- Conforms to C-CDA R2 Medication Information (V2) -->
          <templateId root="2.16.840.1.113883.10.20.22.4.23"
            extension="2014-06-09" />
          <id root="37bfe02a-3e97-4bd6-9197-bbd0ed0de79e" />
          <manufacturedMaterial>
            <code nullFlavor="NA" sdhc:valueSet="2.16.840.1.113883.3.464.1003.196.12.1001">
              <originalText>None of value set: Antibiotic Medications for
Pharyngitis</originalText>
            </code>
          </manufacturedMaterial>
        </manufacturedProduct>
      </consumable>
    </substanceAdministration>
  </entryRelationship>

  <!-- QDM Attribute: Reason (Negation Rationale) -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      <id root="aa348c15-ce6b-4988-b33b-7ae730c710e2" />
      <code code="77301-0" codeSystem="2.16.840.1.113883.6.1"
        displayName="Reason for care action performed or not" codeSystemName="LOINC" />
      <statusCode code="completed" />
      <effectiveTime>
        <low value="20120105" />
      </effectiveTime>
    </observation>
  </entryRelationship>
</act>
```

```

    </effectiveTime>
    <value xsi:type="CD" code="182903008" codeSystem="2.16.840.1.113883.6.96"
      codeSystemName="SNOMED-CT"
      displayName="Drug declined by patient - reason unknown
      (situation)"
      sdct:valueSet="{ $QDMElementValueSetOID}" />
  </observation>
</entryRelationship>
</act>

```

4.28 Medication Dispense (V2)

[supply: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.18:2014-06-09
(open)]

Table 142: Medication Dispense (V2) Contexts

Contained By:	Contains:
Medication Activity (V2) (optional)	Immunization Medication Information (V2) Medication Information (V2) Medication Supply Order (V2) US Realm Address (AD.US.FIELDED)

This template records the act of supplying medications (i.e., dispensing).

Table 143: Medication Dispense (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
supply (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.18:2014-06-09)					
@classCode	1..1	SHALL		1098-7451	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SPLY
@moodCode	1..1	SHALL		1098-7452	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-7453	
@root	1..1	SHALL		1098-10505	2.16.840.1.113883.10.20.22.4.18
@extension	1..1	SHALL		1098-32580	2014-06-09
id	1..*	SHALL		1098-7454	
statusCode	1..1	SHALL		1098-7455	
@code	1..1	SHALL		1098-32361	urn:oid:2.16.840.1.113883.3.88.12.80.64 (Medication Fill Status)
effectiveTime	0..1	SHOULD		1098-7456	
repeatNumber	0..1	SHOULD		1098-7457	
quantity	0..1	SHOULD		1098-7458	
product	0..1	MAY		1098-7459	
manufacturedProduct	1..1	SHALL		1098-15607	Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09)
product	0..1	MAY		1098-9331	
manufacturedProduct	1..1	SHALL		1098-31696	Immunization Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09)
performer	0..1	MAY		1098-7461	
assignedEntity	1..1	SHALL		1098-7467	
addr	0..1	SHOULD		1098-7468	US Realm Address (AD.US.FIELDDED) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)
entryRelationship	0..1	MAY		1098-7473	

@typeCode	1..1	SHALL		1098-7474	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
supply	1..1	SHALL		1098-15606	Medication Supply Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.17:2014-06-09)

1. **SHALL** contain exactly one [1..1] @classCode="SPLY" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7451).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7452).
3. **SHALL** contain exactly one [1..1] templateId (CONF:1098-7453) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.18" (CONF:1098-10505).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-06-09" (CONF:1098-32580).
4. **SHALL** contain at least one [1..*] id (CONF:1098-7454).
5. **SHALL** contain exactly one [1..1] statusCode (CONF:1098-7455).
 - a. This statusCode **SHALL** contain exactly one [1..1] @code, which **SHALL** be selected from ValueSet [Medication Fill Status](#) urn:oid:2.16.840.1.113883.3.88.12.80.64 **STATIC** 2014-04-23 (CONF:1098-32361).
6. **SHOULD** contain zero or one [0..1] effectiveTime (CONF:1098-7456).

In "INT" (intent) mood, the repeatNumber defines the number of allowed administrations. For example, a repeatNumber of "3" means that the substance can be administered up to 3 times. In "EVN" (event) mood, the repeatNumber is the number of occurrences. For example, a repeatNumber of "3" in a substance administration event means that the current administration is the 3rd in a series.

7. **SHOULD** contain zero or one [0..1] repeatNumber (CONF:1098-7457).
8. **SHOULD** contain zero or one [0..1] quantity (CONF:1098-7458).
9. **MAY** contain zero or one [0..1] product (CONF:1098-7459) such that it
 - a. **SHALL** contain exactly one [1..1] [Medication Information \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09) (CONF:1098-15607).
10. **MAY** contain zero or one [0..1] product (CONF:1098-9331) such that it
 - a. **SHALL** contain exactly one [1..1] [Immunization Medication Information \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09) (CONF:1098-31696).
11. **MAY** contain zero or one [0..1] performer (CONF:1098-7461).
 - a. The performer, if present, **SHALL** contain exactly one [1..1] assignedEntity (CONF:1098-7467).
 - i. This assignedEntity **SHOULD** contain zero or one [0..1] [US Realm Address \(AD.US.FIELDDED\)](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2) (CONF:1098-7468).

1. The content of addr **SHALL** be a conformant US Realm Address (AD.US.FIELDDED) (2.16.840.1.113883.10.20.22.5.2) (CONF:1098-10565).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-7473) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7474).
 - b. **SHALL** contain exactly one [1..1] Medication Supply Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.17:2014-06-09) (CONF:1098-15606).
13. A supply act **SHALL** contain one product/Medication Information **OR** one product/Immunization Medication Information template (CONF:1098-9333).

Table 144: Medication Fill Status

Value Set: Medication Fill Status urn:oid:2.16.840.1.113883.3.88.12.80.64 Value Set Source: https://phinvads.cdc.gov/			
Code	Code System	Code System OID	Print Name
aborted	ActStatus	urn:oid:2.16.840.1.113883.5.14	Aborted
completed	ActStatus	urn:oid:2.16.840.1.113883.5.14	Completed

Figure 65: Medication Dispense (V2) Example

```

<supply classCode="SPLY" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.18" extension="2014-06-09" />
  <id root="1.2.3.4.56789.1" extension="cb734647-fc99-424c-a864-7e3cda82e704" />
  <statusCode code="completed" />
  <effectiveTime value="201208151450-0800" />
  <repeatNumber value="1" />
  <quantity value="75" />
  <product>
    <manufacturedProduct classCode="MANU">
      <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-06-09" />
      . . .
    </manufacturedProduct>
  </product>
  <performer>
    <assignedEntity>
      . . .
    </assignedEntity>
  </performer>
</supply>

```

4.28.1 Medication Dispensed (V2)

[supply: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.45:2014-12-01
(open)]

Table 145: Medication Dispensed (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Medication, Dispensed.

This datatype represents that a medication prescription has been filled by a pharmacy and the medication has been provided to the patient or patient proxy. In the ambulatory setting, medications are primarily taken directly by patients and not directly observed. Hence, dispensed is the closest health provider documentation of medication compliance. In settings where patients attest to taking medications in electronic format (perhaps a Personal Health Record), patient attestation of “medication taken” may be available. A time/date stamp is required and actStatus is constrained to “completed”.

Table 146: Medication Dispensed (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
supply (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.45:2014-12-01)					
@classCode	1..1	SHALL		1140-27528	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SPLY
@moodCode	1..1	SHALL		1140-27529	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-13851	
@root	1..1	SHALL		1140-13852	2.16.840.1.113883.10.20.24.3.45
@extension	1..1	SHALL		1140-26555	2014-12-01
statusCode	1..1	SHALL		1140-19440	
@code	1..1	SHALL		1140-19441	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL	IVL_TS	1140-13856	
entryRelationship	0..1	MAY		1140-13859	
@typeCode	1..1	SHALL		1140-13860	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27265	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-13862	
@typeCode	1..1	SHALL		1140-13863	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27266	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-28022	
@typeCode	1..1	SHALL		1140-28023	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
substanceAdministration	1..1	SHALL		1140-28224	
@classCode	1..1	SHALL		1140-28226	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SBADM
@moodCode	1..1	SHALL		1140-28227	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN

routeCode	1..1	SHALL		1140-28225	
@sdtc:valueSet	1..1	SHALL		1140-28228	
consumable	1..1	SHALL		1140-28229	
manufacturedProduct	1..1	SHALL		1140-28230	
manufacturedMaterial	1..1	SHALL		1140-28231	
@nullFlavor	1..1	SHALL		1140-28232	urn:oid:2.16.840.1.113883.5.1008 (HL7NullFlavor) = NA

1. Conforms to [Medication Dispense \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.18:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="SPLY" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27528).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27529).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13851) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.45" (CONF:1140-13852).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-26555).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-19440).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-19441).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-13856).
7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13859) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13860).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27265).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13862) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13863).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27266).

QDM attribute: Route

9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-28022) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28023).
- b. **SHALL** contain exactly one [1..1] **substanceAdministration** (CONF:1140-28224).
 - i. This substanceAdministration **SHALL** contain exactly one [1..1] **@classCode="SBADM"** Substance Administration (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28226).
 - ii. This substanceAdministration **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28227).
 - iii. This substanceAdministration **SHALL** contain exactly one [1..1] **routeCode** (CONF:1140-28225).
 - 1. This routeCode **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-28228).
 - iv. This substanceAdministration **SHALL** contain exactly one [1..1] **consumable** (CONF:1140-28229).
 - 1. This consumable **SHALL** contain exactly one [1..1] **manufacturedProduct** (CONF:1140-28230).
 - a. This manufacturedProduct **SHALL** contain exactly one [1..1] **manufacturedMaterial** (CONF:1140-28231).
 - i. This manufacturedMaterial **SHALL** contain exactly one [1..1] **@nullFlavor="NA"** (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008) (CONF:1140-28232).

Figure 66: Medication Dispensed (V2) Example

```

<supply classCode="SPLY" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Medication Dispense (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.18" extension="2014-06-09" />
  <!-- Medication Dispensed (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.45" extension="2014-12-01" />
  <id root="50ed595a-dfb6-49f0-8b19-1901b5d01c1a" />
  <statusCode code="completed" />
  <effectiveTime xsi:type="IVL_TS">
    <!-- QDM Attribute: Start Datetime -->
    <low value="20110301" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20120301" />
  </effectiveTime>
  <!-- QDM Attribute: Frequency -->
  <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true" operator="A">
    <period value="6" unit="h" />
  </effectiveTime>
  <!-- QDM Attribute: Refills -->
  <repeatNumber value="4" />
  <independentInd value="false" />
  <product>
    <manufacturedProduct classCode="MANU">
      <!-- C-CDA R2 Medication Information (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-06-09" />
      <id root="37bfe02a-3e97-4bd6-9197-bbd0ed0de79e" />
      <manufacturedMaterial>
        <code code="329498" codeSystem="2.16.840.1.113883.6.88"
        displayName="Albuterol 0.09 MG/ACTUAT inhalant solution"
        codeSystemName="RxNorm"
        sdtc:valueSet="{ $QDMElementValueSetOID}" />
      </manufacturedMaterial>
    </manufacturedProduct>
  </product>
  <!-- QDM Attribute: Route -->
  <entryRelationship typeCode="REFR">
    <substanceAdministration classCode="SBADM" moodCode="EVN">
      <routeCode code="C38288"
        codeSystem="2.16.840.1.113883.3.26.1.1" codeSystemName="NCI
        Thesaurus" displayName="ORAL" sdtc:valueSet="1.2.9999"/>
      <consumable>
        <manufacturedProduct>
          <manufacturedMaterial nullFlavor="NA"/>
        </manufacturedProduct>
      </consumable>
    </substanceAdministration>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->

```

```

<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</supply>

```

4.29 Medication Information (V2)

[manufacturedProduct: identifier
urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09 (open)]

Table 147: Medication Information (V2) Contexts

Contained By:	Contains:
Medication Activity (V2) (required) Planned Supply (V2) (optional) Planned Medication Activity (V2) (required) Medication Supply Order (V2) (optional) Medication Dispense (V2) (optional)	

A medication should be recorded as a pre-coordinated ingredient + strength + dose form (e.g., “metoprolol 25mg tablet”, “amoxicillin 400mg/5mL suspension”) where possible. This includes RxNorm codes whose Term Type is SCD (semantic clinical drug), SBD (semantic brand drug), GPCK (generic pack), BPCK (brand pack).

The dose (doseQuantity) represents how many of the consumables are to be administered at each administration event. As a result, the dose is always relative to the consumable. Thus, a patient consuming a single "metoprolol 25mg tablet" per administration will have a doseQuantity of "1", whereas a patient consuming "metoprolol" will have a dose of "25 mg".

Table 148: Medication Information (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
manufacturedProduct (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09)					
@classCode	1..1	SHALL		1098-7408	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
templateId	1..1	SHALL		1098-7409	
@root	1..1	SHALL		1098-10506	2.16.840.1.113883.10.20.22.4.23
@extension	1..1	SHALL		1098-32579	2014-06-09
id	0..*	MAY		1098-7410	
manufacturedMaterial	1..1	SHALL		1098-7411	
code	1..1	SHALL		1098-7412	urn:oid:2.16.840.1.113762.1.4.1010.4 (Medication Clinical Drug)
translation	0..*	MAY		1098-31884	urn:oid:2.16.840.1.113762.1.4.1010.2 (Clinical Substance)
manufacturerOrganization	0..1	MAY		1098-7416	

1. **SHALL** contain exactly one [1..1] **@classCode**="MANU" (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 **STATIC**) (CONF:1098-7408).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7409) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.23" (CONF:1098-10506).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32579).
3. **MAY** contain zero or more [0..*] **id** (CONF:1098-7410).
4. **SHALL** contain exactly one [1..1] **manufacturedMaterial** (CONF:1098-7411).
 Note: A medication should be recorded as a pre-coordinated ingredient + strength + dose form (e.g., "metoprolol 25mg tablet", "amoxicillin 400mg/5mL suspension") where possible. This includes RxNorm codes whose Term Type is SCD (semantic clinical drug), SBD (semantic brand drug), GPCK (generic pack), BPCK (brand pack).
 - a. This **manufacturedMaterial** **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [Medication Clinical Drug](#) urn:oid:2.16.840.1.113762.1.4.1010.4 **DYNAMIC** (CONF:1098-7412).
 - i. This **code** **MAY** contain zero or more [0..*] **translation**, which **MAY** be selected from ValueSet [Clinical Substance](#) urn:oid:2.16.840.1.113762.1.4.1010.2 **DYNAMIC** (CONF:1098-31884).
5. **MAY** contain zero or one [0..1] **manufacturerOrganization** (CONF:1098-7416).

Table 149: Medication Clinical Drug

<p>Value Set: Medication Clinical Drug urn:oid:2.16.840.1.113762.1.4.1010.4</p> <p>All prescribable medication formulations represented using either a "generic" or "brand-specific" concept. This includes RxNorm codes whose Term Type is SCD (semantic clinical drug), SBD (semantic brand drug), GPCK (generic pack), BPCK (brand pack), SCDG (semantic clinical drug group), SBDG (semantic brand drug group), SCDF (semantic clinical drug form), or SBDF (semantic brand drug form).</p> <p>Value set intensionally defined as a GROUPING made up of: Value Set: Medication Clinical General Drug (2.16.840.1.113883.3.88.12.80.17) (RxNorm Generic Drugs); Value Set: Medication Clinical Brand-specific Drug (2.16.840.1.113762.1.4.1010.5) (RxNorm Branded Drugs).</p> <p>Value Set Source: http://phinvads.cdc.gov/vads/ViewValueSet.action?id=239BEF3E-971C-DF11-B334-0015173D1785</p>			
Code	Code System	Code System OID	Print Name
978727	RxNorm	urn:oid:2.16.840.1.113883.6.88	0.2 ML Dalteparin Sodium 12500 UNT/ML Prefilled Syringe [Fragmin]
827318	RxNorm	urn:oid:2.16.840.1.113883.6.88	Acetaminophen 250 MG / Aspirin 250 MG / Caffeine 65 MG Oral Capsule
199274	RxNorm	urn:oid:2.16.840.1.113883.6.88	Aspirin 300 MG Oral Capsule
362867	RxNorm	urn:oid:2.16.840.1.113883.6.88	Cefotetan Injectable Solution [Cefotan]
...			

Table 150: Clinical Substance

<p>Value Set: Clinical Substance urn:oid:2.16.840.1.113762.1.4.1010.2</p> <p>All substances that may need to be represented in the context of health care related activities. This value set is quite broad in coverage and includes concepts that may never be needed in a health care activity event, particularly the included SNOMED CT concepts. The code system-specific value sets in this grouping value set are intended to provide broad coverage of all kinds of agents, but the expectation for use is that the chosen concept identifier for a substance should be appropriately specific and drawn from the appropriate code system as noted: prescribable medications should use RXNORM concepts, more specific drugs and chemicals should be represented using UNII concepts, and any substances not found in either of those two code systems, should use the appropriate SNOMED CT concept. This overarching grouping value set is intended to support identification of prescribable medications, foods, general substances and environmental entities.</p> <p>Value set intensionally defined as a GROUPING made up of: Value Set: Medication Clinical Drug (2.16.840.1.113762.1.4.1010.4) (RxNorm generic and brand codes); Value Set: Unique Ingredient Identifier - Complete Set (2.16.840.1.113883.3.88.12.80.20) (UNII codes); Value Set: Substance Other Than Clinical Drug (2.16.840.1.113762.1.4.1010.9) (SNOMED CT codes).</p> <p>Value Set Source: https://vsac.nlm.nih.gov/</p>			
Code	Code System	Code System OID	Print Name
369436	RxNorm	urn:oid:2.16.840.1.113883.6.88	6-Aminocaproic Acid Oral Tablet [Amicar]
1116447	RxNorm	urn:oid:2.16.840.1.113883.6.88	Acepromazine Oral Tablet
9042592173	Unique Ingredient Identifier (UNII)	urn:oid:2.16.840.1.113883.4.9	ATROMEPINE
7673326042	Unique Ingredient Identifier (UNII)	urn:oid:2.16.840.1.113883.4.9	IRINOTECAN
413480003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Almond product (substance)
256915001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Aluminum hydroxide absorbed plasma (substance)
...			

Figure 67: Medication Information (V2) Example

<pre> <manufacturedProduct classCode="MANU"> <!-- ** Medication information ** --> <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-06-09" /> <id root="2a620155-9d11-439e-92b3-5d9815ff4ee8" /> <manufacturedMaterial> <code code="573621" displayName="Proventil 0.09 MG/ACTUAT inhalant solution" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RxNorm" /> </manufacturedMaterial> <manufacturerOrganization> <name>Medication Factory Inc.</name> </manufacturerOrganization> </manufacturedProduct> </pre>

4.30 Medication Supply Order (V2)

[supply: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.17:2014-06-09
(open)]

Table 151: Medication Supply Order (V2) Contexts

Contained By:	Contains:
Medication Activity (V2) (optional) Medication Dispense (V2) (optional)	Immunization Medication Information (V2) Instruction (V2) Medication Information (V2)

This template records the intent to supply a patient with medications.

Table 152: Medication Supply Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
supply (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.17:2014-06-09)					
@classCode	1..1	SHALL		1098-7427	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SPLY
@moodCode	1..1	SHALL		1098-7428	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
templateId	1..1	SHALL		1098-7429	
@root	1..1	SHALL		1098-10507	2.16.840.1.113883.10.20.22.4.17
@extension	1..1	SHALL		1098-32578	2014-06-09
id	1..*	SHALL		1098-7430	
statusCode	1..1	SHALL		1098-7432	
@code	1..1	SHALL		1098-32362	urn:oid:2.16.840.1.113883.1.11.159331 (ActStatus)
effectiveTime	0..1	SHOULD	IVL_TS	1098-15143	
high	1..1	SHALL		1098-15144	
repeatNumber	0..1	SHOULD		1098-7434	
quantity	0..1	SHOULD		1098-7436	
product	0..1	MAY		1098-7439	
manufacturedProduct	1..1	SHALL		1098-16093	Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09)
product	0..1	MAY		1098-9334	
manufacturedProduct	1..1	SHALL		1098-31695	Immunization Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09)
author	0..1	MAY		1098-7438	
entryRelationship	0..1	MAY		1098-7442	
@typeCode	1..1	SHALL		1098-7444	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ

@inversionInd	1..1	SHALL		1098-7445	true
act	1..1	SHALL		1098-31391	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.20:2014-06-09)

1. **SHALL** contain exactly one [1..1] **@classCode**="SPLY" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7427).
2. **SHALL** contain exactly one [1..1] **@moodCode**="INT" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7428).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7429) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.17" (CONF:1098-10507).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32578).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-7430).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7432).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [ActStatus](#) urn:oid:2.16.840.1.113883.1.11.159331 **DYNAMIC** (CONF:1098-32362).
6. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-15143) such that it
 - a. **SHALL** contain exactly one [1..1] **high** (CONF:1098-15144).

In "INT" (intent) mood, the repeatNumber defines the number of allowed administrations. For example, a repeatNumber of "3" means that the substance can be administered up to 3 times. In "EVN" (event) mood, the repeatNumber is the number of occurrences. For example, a repeatNumber of "3" in a substance administration event means that the current administration is the 3rd in a series.

7. **SHOULD** contain zero or one [0..1] **repeatNumber** (CONF:1098-7434).
8. **SHOULD** contain zero or one [0..1] **quantity** (CONF:1098-7436).
9. **MAY** contain zero or one [0..1] **product** (CONF:1098-7439) such that it
 - a. **SHALL** contain exactly one [1..1] [Medication Information \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09) (CONF:1098-16093).
10. **MAY** contain zero or one [0..1] **product** (CONF:1098-9334) such that it
 - a. **SHALL** contain exactly one [1..1] [Immunization Medication Information \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09) (CONF:1098-31695).
 - i. A supply act **SHALL** contain one product/Medication Information **OR** one product/Immunization Medication Information template (CONF:1098-16870).
11. **MAY** contain zero or one [0..1] **author** (CONF:1098-7438).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-7442).
 - a. The entryRelationship, if present, **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7444).

- b. The entryRelationship, if present, **SHALL** contain exactly one [1..1] **@inversionInd="true"** True (CONF:1098-7445).
- c. The entryRelationship, if present, **SHALL** contain exactly one [1..1] [Instruction \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-31391).

Figure 68: Medication Supply Order (V2) Example

```
<supply classCode="SPLY" moodCode="INT">
  <templateId root="2.16.840.1.113883.10.20.22.4.17" extension="2014-06-09" />
  <id root="aba2fc75-1a43-435f-8309-d24e4be5f1cd" />
  <statusCode code="completed" />
  <effectiveTime xsi:type="IVL_TS">
    <low value="20070103" />
    <high nullFlavor="UNK" />
  </effectiveTime>
  <repeatNumber value="1" />
  <quantity value="75" />
  <product>
    <manufacturedProduct classCode="MANU">
      <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-06-09" />
      . . .
    </manufacturedProduct>
  </product>
  <author>
    . . .
  </author>
  <entryRelationship typeCode="SUBJ" inversionInd="true">
    <act classCode="ACT" moodCode="INT">
      <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
      . . .
    </act>
  </entryRelationship>
</supply>
```

4.31 Patient Care Experience (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.48:2014-12-01 (open)]

Table 153: Patient Care Experience (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2)

This template represents the QDM Datatype: Patient Care Experience.

Patient Care Experience describes information collected from patients about their perceptions of the care they received.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 154: Patient Care Experience (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.48:2014-12-01)					
@classCode	1..1	SHALL		1140-12464	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12465	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28085	
templateId	1..1	SHALL		1140-12466	
@root	1..1	SHALL		1140-12467	2.16.840.1.113883.10.20.24.3.48
@extension	1..1	SHALL		1140-27290	2014-12-01
id	1..*	SHALL		1140-12469	
code	1..1	SHALL		1140-12470	
@code	1..1	SHALL		1140-13037	77218-6
@codeSystem	1..1	SHALL		1140-27555	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1140-12471	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-12472	
low	1..1	SHALL		1140-27553	
high	0..1	MAY		1140-27554	
value	1..1	SHALL	CD	1140-13038	
@sdtc:valueSet	1..1	SHALL		1140-27647	
entryRelationship	0..1	MAY		1140-12473	
@typeCode	1..1	SHALL		1140-12474	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27288	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12476	
@typeCode	1..1	SHALL		1140-12477	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON

observation	1..1	SHALL		1140-27289	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.24.3.84:2014-12-01
-------------	------	-------	--	----------------------------	---

1. **SHALL** contain exactly one [1..1] **@classCode="OBS"** observation, which **SHALL** be selected from CodeSystem HL7ActClass (urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12464).
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** event, which **SHALL** be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12465).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28085).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12466) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.48"** (CONF:1140-12467).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27290).
5. **SHALL** contain at least one [1..*] **id** (CONF:1140-12469).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12470).
 - a. This code **SHALL** contain exactly one [1..1] **@code="77218-6"** Patient satisfaction with healthcare delivery (CONF:1140-13037).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.6.1"** (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27555).
7. **SHALL** contain exactly one [1..1] **statusCode="completed"**, which **SHALL** be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14) (CONF:1140-12471).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-12472).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-27553).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-27554).
9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"** (CONF:1140-13038).
 - a. This value **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27647).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12473) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** has reason, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12474).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27288).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12476) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** has reason, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12477).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27289).

Figure 69: Patient Care Experience (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Patient Care Experience (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.48"
    extension="2014-12-01" />
  <id root="ee6d068d-f209-4913-b999-9efa74358914" />
  <code code="77218-6"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Patient satisfaction with healthcare delivery" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20110101" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20111231" />
  </effectiveTime>
  <value xsi:type="CD"
    code="185481008"
    displayName="Dissatisfied with doctor (finding)"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    sdctc:valueSet="{ $QDMElementValueSetOID }"/>

  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.32 Patient Characteristic Clinical Trial Participant (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.51:2014-12-01
(open)]

Table 155: Patient Characteristic Clinical Trial Participant (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Reason (V2)

This template represents the QDM datatype: Patient Characteristic, Clinical Trial Participant.

This datatype indicates that the patient is a clinical trial participant. MoodCode is constrained to “EVN” and statusCode is constrained to “active”.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 156: Patient Characteristic Clinical Trial Participant (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.51:2014-12-01)					
@classCode	1..1	SHALL		1140-16711	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12526	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28086	
templateId	1..1	SHALL		1140-12537	
@root	1..1	SHALL		1140-12538	2.16.840.1.113883.10.20.24.3.51
@extension	1..1	SHALL		1140-27026	2014-12-01
id	1..*	SHALL		1140-26996	
code	1..1	SHALL		1140-13041	
@code	1..1	SHALL		1140-28130	ASSERTION
@codeSystem	1..1	SHALL		1140-28131	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		1140-13042	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	1..1	SHALL		1140-12536	
low	1..1	SHALL		1140-27668	
high	0..1	MAY		1140-27669	
value	1..1	SHALL	CD	1140-16712	
@sdtc:valueSet	1..1	SHALL		1140-27648	
entryRelationship	0..1	MAY		1140-12531	
@typeCode	1..1	SHALL		1140-12532	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-12533	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01

1. **SHALL** contain exactly one [1..1] **@classCode="OBS"** (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-16711).
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** event, which **SHALL** be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12526).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28086).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12537) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.51"** (CONF:1140-12538).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27026).
5. **SHALL** contain at least one [1..*] **id** (CONF:1140-26996).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-13041).
 - a. This code **SHALL** contain exactly one [1..1] **@code="ASSERTION"** Assertion (CONF:1140-28130).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.5.4"** (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1140-28131).
7. **SHALL** contain exactly one [1..1] **statusCode="active"** (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-13042).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-12536).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-27668).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-27669).
9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"** (CONF:1140-16712).
 - a. This value **SHALL** contain exactly one [1..1] **@sdtec:valueSet** (CONF:1140-27648).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12531) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12532).
 - b. **SHALL** contain exactly one [1..1] **Reason (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-12533).

Figure 70: Patient Characteristic Clinical Trial Participant (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Patient Characteristic Clinical Trial Participant -->
  <templateId root="2.16.840.1.113883.10.20.24.3.51" extension="2014-12-01" />
  <id root="b42132cb-9ea4-4d84-93ce-4b5cd2d2ac3d" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="active" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20110303" />
    <!-- QDM Attribute: End Datetime -->
    <high value="20140405" />
  </effectiveTime>
  <value xsi:type="CD" code="428024001" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="clinical trial participant"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.33 Patient Characteristic Observation Assertion (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.103:2014-12-01 (open)]

Table 157: Patient Characteristic Observation Assertion (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	

This template represents the QDM datatype: Patient Characteristic.

Patient Characteristic represents specific factors about a patient. Included are demographics, behavioral factors, social or cultural factors, available resources, and preferences. Behaviors reference responses or actions that affect (either positively or negatively) health or healthcare. Included in this category are mental health issues, adherence issues unrelated to other factors or resources, coping ability, grief issues, and substance use/abuse. Social/cultural factors are characteristics of an individual related to family/caregiver support, education, and literacy (including health literacy), primary language, cultural beliefs (including health beliefs), persistent life stressors, spiritual and religious beliefs, immigration status, and history of abuse or neglect. Resources are means available to a patient to meet health and healthcare needs, which might include caregiver support, insurance coverage, financial resources, and community resources to which the patient is already connected and from which the patient is receiving benefit. Preferences are choices made by patients and their caregivers relative to

options for care or treatment (including scheduling, care experience, and meeting of personal health goals) and the sharing and disclosure of their health information.

This is a pattern that can be used for any simple assertion observation of a patient characteristic that is not represented by one of the specific Patient Characteristics (Birth Date, Clinical Trial Participant, Ethnicity, Expired, Payer, Race or Sex).

This template is to be used to represent the retired QDM Datatypes, Patient Characteristic, Gestational Age, Patient Characteristic Estimated Date of Conception, Patient Characteristic, ECOG Performance Status Poor and Patient Characteristic, Tobacco User and Non-User.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 158: Patient Characteristic Observation Assertion (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.103:2014-12-01)					
@classCode	1..1	SHALL		1140-16536	OBS
@moodCode	1..1	SHALL		1140-16537	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = EVN
@negationInd	0..1	MAY		1140-28090	
templateId	1..1	SHALL		1140-26962	
@root	1..1	SHALL		1140-26963	2.16.840.1.113883.10.20.24.3.103
@extension	1..1	SHALL		1140-27781	2014-12-01
id	1..*	SHALL		1140-16538	
code	1..1	SHALL		1140-16544	
@code	1..1	SHALL		1140-16545	ASSERTION
@codeSystem	1..1	SHALL		1140-28135	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		1140-16539	completed
effectiveTime	1..1	SHALL		1140-16540	
low	1..1	SHALL		1140-27670	
high	0..1	MAY		1140-27671	
value	1..1	SHALL	CD	1140-16541	
@sdct:valueSet	1..1	SHALL		1140-27672	

1. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CONF:1140-16536).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-16537).
3. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28090).
4. **SHALL** contain exactly one [1..1] templateId (CONF:1140-26962) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.103" (CONF:1140-26963).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27781).

5. **SHALL** contain at least one [1..*] **id** (CONF:1140-16538).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-16544).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="ASSERTION" (CONF:1140-16545).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1140-28135).
7. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CONF:1140-16539).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-16540).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-27670).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-27671).
9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-16541).
 - a. This value **SHALL** contain exactly one [1..1] **@sdctc:valueSet** (CONF:1140-27672).

Figure 71: Patient Characteristic Observation Assertion (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Patient Characteristic Observation Assertion -->
  <templateId root="2.16.840.1.113883.10.20.24.3.103" extension="2014-12-01" />
  <id root="94de1700-9629-40b4-b56d-a4eac5f48726" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="201206151030" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="201206161230" />
  </effectiveTime>
  <!-- Patient Characteristic -->
  <value xsi:type="CD" code="422894000" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Eastern Cooperative Oncology Group performance status - grade 2 (finding)"
    sdctc:valueSet="{ $QDMElementValueSetOID }" />
</observation>
```

4.34 Patient Characteristic Payer

[observation: identifier urn:oid:2.16.840.1.113883.10.20.24.3.55 (open)]

Table 159: Patient Characteristic Payer Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	

This template represents the QDM Datatype: Patient Characteristic, Payer. This datatype represents the policy or program providing the coverage for the patient.

Table 160: Patient Characteristic Payer Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.55)					
@classCode	1..1	SHALL		67-14213	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		67-14214	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		67-12561	
@root	1..1	SHALL		67-12562	2.16.840.1.113883.10.20.24.3.55
id	1..*	SHALL		67-12564	
code	1..1	SHALL		67-12565	
@code	1..1	SHALL		67-14029	48768-6
@codeSystem	1..1	SHALL		67-27009	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
effectiveTime	1..1	SHALL		67-26933	
low	1..1	SHALL		67-26934	
high	0..1	SHOULD		67-26935	
value	1..1	SHALL	CD	67-16710	urn:oid:2.16.840.1.114222.4.11.3591 (Payer)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:67-14213).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:67-14214).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:67-12561) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.55" (CONF:67-12562).
4. **SHALL** contain at least one [1..*] **id** (CONF:67-12564).
5. **SHALL** contain exactly one [1..1] **code** (CONF:67-12565).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="48768-6" Payment source (CONF:67-14029).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:67-27009).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:67-26933).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:67-26934).

- b. This effectiveTime **SHOULD** contain zero or one [0..1] **high** (CONF:67-26935).
7. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD", where the code **SHALL** be selected from ValueSet **Payer** urn:oid:2.16.840.1.114222.4.11.3591 **DYNAMIC** (CONF:67-16710).

Table 161: Payer

Value Set: Payer urn:oid:2.16.840.1.114222.4.11.3591 A value set of Public Health Data Standards Consortium Source of Payment Typology Version 3.0 Codes Value Set Source: http://www.phdsc.org/standards/payer-typology.asp			
Code	Code System	Code System OID	Print Name
1	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	Medicare
2	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	Medicaid
311	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	Tricare (CHAMPUS)
33	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	Indian Health Service or Tribe
62	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	BC Indemnity
61	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	BC Managed Care
611	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	BC Managed Care - HMO
619	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	BC Managed Care - Other
613	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	BC Managed Care - POS
612	Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.11388.3.3.221.5	BC Managed Care - PPO
...			

Figure 72: Patient Characteristic Payer Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Patient Characteristic Payer -->
  <templateId root="2.16.840.1.113883.10.20.24.3.55" />
  <id root="4ddflcc3-e325-472e-ad76-b2c66a5ee164" />
  <code code="48768-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Payment source" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20110303" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20160303" />
  </effectiveTime>
  <!-- Payer -->
  <value xsi:type="CD" code="1" codeSystem="2.16.840.1.113883.3.221.5"
    codeSystemName="Source of Payment Typology" displayName="Medicare"
    sdtec:valueSet="{ $QDMElementValueSetOID }" />
</observation>
```

4.35 Patient Preference (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
(open)]

Table 162: Patient Preference (V2) Contexts

Contained By:	Contains:
Encounter Active (V2) (optional) Encounter Performed (V2) (optional) Medication Dispensed (V2) (optional) Intervention Order (V2) (optional) Intervention Recommended (V2) (optional) Medication Active (V2) (optional) Procedure Adverse Event (V2) (optional) Diagnostic Study Adverse Event (V2) (optional) Diagnostic Study Intolerance (V2) (optional) Intervention Adverse Event (V2) (optional) Intervention Intolerance (V2) (optional) Laboratory Test Adverse Event (V2) (optional) Laboratory Test Intolerance (V2) (optional) Procedure Intolerance (V2) (optional) Laboratory Test Performed (V2) (optional) Medication Administered (V2) (optional) Device Adverse Event (V2) (optional) Medication Adverse Effect (V2) (optional) Medication Allergy (V2) (optional) Medication Intolerance (V2) (optional) Device Allergy (V2) (optional) Device Intolerance (V2) (optional) Encounter Order (V2) (optional) Encounter Recommended (V2) (optional) Care Goal (V2) (optional) Diagnostic Study Order (V2) (optional) Diagnostic Study Recommended (V2) (optional) Functional Status Order (V2) (optional) Functional Status Recommended (V2) (optional) Laboratory Test Order (V2) (optional) Laboratory Test Recommended (V2) (optional) Physical Exam Order (V2) (optional) Physical Exam Recommended (V2) (optional) Procedure Order (V2) (optional) Procedure Recommended (V2) (optional) Medication Order (V2) (optional) Device Order (V2) (optional) Device Recommended (V2) (optional) Diagnosis Active (V2) (optional) Diagnosis Inactive (V2) (optional) Diagnosis Resolved (V2) (optional)	

Contained By:	Contains:
Symptom Active (V2) (optional) Symptom Assessed (V2) (optional) Symptom Inactive (V2) (optional) Symptom Resolved (V2) (optional) Procedure Performed (V2) (optional) Device Applied (V2) (optional) Physical Exam Performed (V2) (optional) Functional Status Performed (V2) (optional) Diagnostic Study Performed (V2) (optional) Intervention Performed (V2) (optional) Substance Recommended (V2) (optional) Communication from Patient to Provider (V2) (optional) Communication from Provider to Patient (V2) (optional) Communication from Provider to Provider (V2) (optional) Patient Care Experience (V2) (optional) Provider Care Experience (V2) (required) Risk Category Assessment (V2) (optional) Diagnosis Family History Observation (optional) Transfer From (V2) (optional) Transfer To (V2) (optional)	

This template represents the QDM attribute: Patient Preference.

Preferences are choices made by patients relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals) and the sharing and disclosure of their health information.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 163: Patient Preference (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)					
@classCode	1..1	SHALL		1140-11118	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11119	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28091	
templateId	1..1	SHALL		1140-11120	
@root	1..1	SHALL		1140-11121	2.16.840.1.113883.10.20.24.3.83
@extension	1..1	SHALL		1140-27164	2014-12-01
id	1..1	SHALL		1140-11355	
code	1..1	SHALL		1140-11123	
@code	1..1	SHALL		1140-11124	77302-8
@codeSystem	1..1	SHALL		1140-27006	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
value	1..1	SHALL	CD	1140-11125	
@sdct:valueSet	1..1	SHALL		1140-27649	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS", which **SHALL** be selected from CodeSystem HL7ActClass (urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11118).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11119).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28091).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11120) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.83" (CONF:1140-11121).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27164).
5. **SHALL** contain exactly one [1..1] **id** (CONF:1140-11355).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-11123).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="77302-8" Patient preference for care action (CONF:1140-11124).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27006).

7. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD" (CONF:1140-11125).
 - a. This value **SHALL** contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27649).

Figure 73: Patient Preference (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Patient Preference (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.83"
    extension="2014-12-01"/>
  <id root="e3a5f9ac-f97d-4887-95a3-7ee7d9acal6a"/>
  <code code="77302-8"
    codeSystem="2.16.840.1.113883.6.1"
    displayName="Patient preference for care action"
    codeSystemName="LOINC" />>
  <value xsi:type="CD"
    code="105480006"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="refusal of treatment by patient"
    codeSystemName="SNOMED CT"
    sdtc:valueSet="{ $QDMElementValueSetOID }"/>
</observation>
```

4.36 Planned Act (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09 (open)]

Table 164: Planned Act (V2) Contexts

Contained By:	Contains:
	Author Participation Indication (V2) Instruction (V2) Priority Preference

This template represents planned acts that are not classified as an observation or a procedure according to the HL7 RIM. Examples of these acts are a dressing change, the teaching or feeding of a patient or the providing of comfort measures.

The priority of the activity to the patient and provider is communicated through Priority Preference. The effectiveTime indicates the time when the activity is intended to take place.

Table 165: Planned Act (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09)					
@classCode	1..1	SHALL		1098-8538	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-8539	urn:oid:2.16.840.1.113883.11.20.9.23 (Planned moodCode (Act/Encounter/Procedure))
templateId	1..1	SHALL		1098-30430	
@root	1..1	SHALL		1098-30431	2.16.840.1.113883.10.20.22.4.39
@extension	1..1	SHALL		1098-32552	2014-06-09
id	1..*	SHALL		1098-8546	
code	1..1	SHALL		1098-31687	
statusCode	1..1	SHALL		1098-30432	
@code	1..1	SHALL		1098-32019	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	0..1	SHOULD		1098-30433	
performer	0..*	MAY		1098-30435	
author	0..1	SHOULD		1098-32020	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..*	MAY		1098-31067	
@typeCode	1..1	SHALL		1098-31068	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-31069	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143)
entryRelationship	0..*	MAY		1098-32021	
@typeCode	1..1	SHALL		1098-32022	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1098-32023	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09)
entryRelationship	0..*	MAY		1098-32024	

@typeCode	1..1	SHALL		1098-32025	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
act	1..1	SHALL		1098-32026	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09)

1. **SHALL** contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8538).
2. **SHALL** contain exactly one [1..1] @moodCode, which **SHALL** be selected from ValueSet [Planned moodCode \(Act/Encounter/Procedure\)](#) urn:oid:2.16.840.1.113883.11.20.9.23 **STATIC** 2011-09-30 (CONF:1098-8539).
3. **SHALL** contain exactly one [1..1] templateId (CONF:1098-30430) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.39" (CONF:1098-30431).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-06-09" (CONF:1098-32552).
4. **SHALL** contain at least one [1..*] id (CONF:1098-8546).
5. **SHALL** contain exactly one [1..1] code (CONF:1098-31687).
 - a. This code in a Planned Act **SHOULD** be selected from LOINC (CodeSystem: 2.16.840.1.113883.6.1) **OR** SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96) (CONF:1098-32030).
6. **SHALL** contain exactly one [1..1] statusCode (CONF:1098-30432).
 - a. This statusCode **SHALL** contain exactly one [1..1] @code="active" Active (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-32019).

The effectiveTime in a planned act represents the time that the act should occur.

7. **SHOULD** contain zero or one [0..1] effectiveTime (CONF:1098-30433).

The clinician who is expected to carry out the act could be identified using act/performer.

8. **MAY** contain zero or more [0..*] performer (CONF:1098-30435).

The author in a planned act represents the clinician who is requesting or planning the act.

9. **SHOULD** contain zero or one [0..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-32020).

The following entryRelationship represents the priority that a patient or a provider places on the activity.

10. **MAY** contain zero or more [0..*] entryRelationship (CONF:1098-31067) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31068).
 - b. **SHALL** contain exactly one [1..1] [Priority Preference](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-31069).

The following entryRelationship represents the indication for the act.

11. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32021) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32022).
 - b. **SHALL** contain exactly one [1..1] **Indication (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-32023).

The following entryRelationship captures any instructions associated with the planned act.

12. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32024) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32025).
 - b. **SHALL** contain exactly one [1..1] **Instruction (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-32026).

Table 166: Planned moodCode (Act/Encounter/Procedure)

Value Set: Planned moodCode (Act/Encounter/Procedure) urn:oid:2.16.840.1.113883.11.20.9.23 This value set is used to restrict the moodCode on an act, an encounter or a procedure to future moods Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
INT	ActMood	urn:oid:2.16.840.1.113883.5.1001	Intent
ARQ	ActMood	urn:oid:2.16.840.1.113883.5.1001	Appointment Request
PRMS	ActMood	urn:oid:2.16.840.1.113883.5.1001	Promise
PRP	ActMood	urn:oid:2.16.840.1.113883.5.1001	Proposal
RQO	ActMood	urn:oid:2.16.840.1.113883.5.1001	Request
APT	ActMood	urn:oid:2.16.840.1.113883.5.1001	Appointment

Figure 74: Planned Act (V2) Example

```
<act classCode="ACT" moodCode="INT">
  <templateId root="2.16.840.1.113883.10.20.22.4.39" extension="2014-06-09" />
  <id root="7658963e-54da-496f-bf18-dea1dddaa3b0" />
  <code code="423171007" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
displayName="Elevate head of bed" />
  <statusCode code="active" />
  <effectiveTime value="20130902" />
  <author typeCode="AUT">
    <!-- Author Participation -->
  </author>
  <entryRelationship typeCode="RSON">
    <!-- Patient Priority Preference -->
    ...
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- Provider Priority Preference -->
    ...
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- Indication (V2) -->
    ...
  </entryRelationship>
  <entryRelationship typeCode="SUBJ">
    <!-- Instruction (V2) -->
    ...
  </entryRelationship>
  <entryRelationship typeCode="COMP">
    <!-- Planned Coverage -->
    ...
  </entryRelationship>
</act>
```

4.36.1 Intervention Order (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.31:2014-12-01 (open)]

Table 167: Intervention Order (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Intervention, Order.

An intervention order is a request by a physician or appropriately licensed care provider to an appropriate provider or facility to perform a service and/or other type of action necessary for care. An example of this is an order for smoking cessation counseling or physical therapy.

The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 168: Intervention Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.31:2014-12-01)					
@classCode	1..1	SHALL		1140-27353	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-13742	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
@negationInd	0..1	MAY		1140-28071	
templateId	1..1	SHALL		1140-13743	
@root	1..1	SHALL		1140-13744	2.16.840.1.113883.10.20.24.3.31
@extension	1..1	SHALL		1140-26556	2014-12-01
code	1..1	SHALL		1140-13746	
@sdtc:valueSet	1..1	SHALL		1140-27632	
author	1..1	SHALL		1140-27343	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-13750	
@typeCode	1..1	SHALL		1140-13751	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27263	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-13753	
@typeCode	1..1	SHALL		1140-13754	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27264	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-13756	
@typeCode	1..1	SHALL		1140-13757	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27159	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Act \(V2\)](#) template (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass
urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27353).
3. **SHALL** contain exactly one [1..1] **@moodCode**="RQO" Request (CodeSystem: ActMood
urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13742).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28071).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13743) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.31"
(CONF:1140-13744).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-26556).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-13746).
 - a. This code **SHALL** contain exactly one [1..1] **@sdhc:setValue** (CONF:1140-27632).

author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed.

7. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier:
urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27343).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13750) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem:
HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13751).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27263).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13753) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem:
HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13754).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27264).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13756) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem:
HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13757).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27159).

Figure 75: Intervention Order (V2) Example

```
<act classCode="ACT" moodCode="RQO">
  <!-- Conforms to C-CDA R2 Planned Act (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.39" extension="2014-06-09" />
  <!-- Intervention Order (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.31" extension="2014-12-01" />
  <id root="db734647-fc99-424c-a864-7e3cda82e703" />
  <!-- Intervention -->
  <code code="419553002" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CD" displayName="diet education"
    sdctc:valueSet="{ $QDMElementValueSetOID }" />
  <statusCode code="active" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Patient Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```


4.36.2 Intervention Recommended (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.33:2014-12-01 (open)]

Table 169: Intervention Recommended (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Intervention, Recommended.

An intervention recommendation is a recommendation for an influencing force or act to modify a given state of affairs. An intervention is any action carried out (by a healthcare provider or a consumer) to improve or maintain the health of a subject of care with the expectation of producing an outcome. An example of this is a recommendation for smoking cessation counseling.

The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 170: Intervention Recommended (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.33:2014-12-01)					
@classCode	1..1	SHALL		1140-27355	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-13763	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
@negationInd	0..1	MAY		1140-28073	
templateId	1..1	SHALL		1140-13764	
@root	1..1	SHALL		1140-13765	2.16.840.1.113883.10.20.24.3.33
@extension	1..1	SHALL		1140-26557	2014-12-01
code	1..1	SHALL		1140-13767	
@sdtc:valueSet	1..1	SHALL		1140-27635	
author	1..1	SHALL		1140-27349	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-13771	
@typeCode	1..1	SHALL		1140-13772	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27261	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-13774	
@typeCode	1..1	SHALL		1140-13775	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27262	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-13777	
@typeCode	1..1	SHALL		1140-13778	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27160	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Act \(V2\)](#) template (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass
urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27355).
3. **SHALL** contain exactly one [1..1] **@moodCode**="INT" Intent (CodeSystem: ActMood
urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13763).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28073).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13764) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.33"
(CONF:1140-13765).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-26557).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-13767).
 - a. This code **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27635).

author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed.

7. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier:
urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27349).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13771) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem:
HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13772).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27261).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13774) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem:
HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13775).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27262).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13777) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem:
HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13778).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27160).

Figure 76: Intervention Recommended (V2) Example

```
<act classCode="ACT" moodCode="INT">
  <!-- Conforms to C-CDA R2 Planned Act (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.39" extension="2014-06-09" />
  <!-- Intervention Recommended (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.33" extension="2014-12-01" />
  <id root="db734647-fc99-424c-a864-7e3cda82e703" />
  <!-- Intervention -->
  <code code="419553002" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CD" displayName="diet education"
    sdctc:valueSet="{ $QDMElementValueSetOID }" />
  <statusCode code="active" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Patient Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```

4.37 Planned Coverage

[act: identifier urn:oid:2.16.840.1.113883.10.20.22.4.129 (open)]

Table 171: Planned Coverage Contexts

Contained By:	Contains:
Planned Procedure (V2) (optional) Planned Observation (V2) (optional) Planned Supply (V2) (optional)	Author Participation

This template represents the insurance coverage intended to cover an act or procedure.

Table 172: Planned Coverage Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.129)					
@classCode	1..1	SHALL		1098-31945	urn:oid:2.16.840.1.113883.5.4 (ActCode) = ACT
@moodCode	1..1	SHALL		1098-31946	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
templateId	1..1	SHALL		1098-31947	
@root	1..1	SHALL		1098-31948	2.16.840.1.113883.10.20.22.4.129
id	1..*	SHALL		1098-31950	
code	1..1	SHALL		1098-31951	
@code	1..1	SHALL		1098-31952	48768-6
@codeSystem	1..1	SHALL		1098-31953	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1098-31954	
@code	1..1	SHALL		1098-31955	urn:oid:2.16.840.1.113883.5.4 (ActCode) = active
author	0..*	MAY		1098-32178	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	1..1	SHALL		1098-31967	
@typeCode	1..1	SHALL		1098-31968	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
act	1..1	SHALL		1098-31969	
@classCode	1..1	SHALL		1098-31970	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-31971	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
id	1..*	SHALL		1098-31972	
code	1..1	SHALL		1098-31973	urn:oid:2.16.840.1.114222.4.11.3591 (Payer)
statusCode	1..1	SHALL		1098-31974	
@code	1..1	SHALL		1098-31975	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active

1. **SHALL** contain exactly one [1..1] **@classCode="ACT"** act (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1098-31945).
2. **SHALL** contain exactly one [1..1] **@moodCode="INT"** Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-31946).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-31947) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.129"** (CONF:1098-31948).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-31950).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-31951).
 - a. This code **SHALL** contain exactly one [1..1] **@code="48768-6"** Payment Sources (CONF:1098-31952).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.6.1"** (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1098-31953).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-31954).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code="active"** Active (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1098-31955).
7. **MAY** contain zero or more [0..*] **Author Participation** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-32178).
8. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1098-31967) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** has component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31968).
 - b. **SHALL** contain exactly one [1..1] **act** (CONF:1098-31969).
 - i. This act **SHALL** contain exactly one [1..1] **@classCode="ACT"** ACT (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-31970).
 - ii. This act **SHALL** contain exactly one [1..1] **@moodCode="INT"** intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-31971).

These act/identifiers are unique identifiers for the policy or program providing the coverage.

- iii. This act **SHALL** contain at least one [1..*] **id** (CONF:1098-31972).
- iv. This act **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet **Payer** urn:oid:2.16.840.1.114222.4.11.3591 **DYNAMIC** (CONF:1098-31973).
- v. This act **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-31974).
 1. This statusCode **SHALL** contain exactly one [1..1] **@code="active"** Active (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-31975).

Figure 77: Planned Coverage Example

```
<act classCode="ACT" moodCode="INT">
  <templateId root="2.16.840.1.113883.10.20.22.4.129" />
  <id root="03f5e10b-7e79-4610-9626-d2984ff10cc1" />
  <code code="48768-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="Payment Sources" />
  <statusCode code="active" />
  <entryRelationship typeCode="COMP">
    <act classCode="ACT" moodCode="INT">
      <!-- These act/identifiers are unique identifiers
for the policy or program providing the coverage. -->
      <id root="4c9a3be1-5f09-46dd-88e7-14c8ec612e4c" />
      <code code="111" displayName="Medicare HMO"
          codeSystemName="Source of Payment Typology (PHDSC)"
          codeSystem="2.16.840.1.113883.3.221.5" />
      <statusCode code="active" />
    </act>
  </entryRelationship>
</act>
```

4.38 Planned Encounter (V2)

[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09
(open)]

Table 173: Planned Encounter (V2) Contexts

Contained By:	Contains:
	Author Participation Indication (V2) Priority Preference Service Delivery Location

This template represents a planned or ordered encounter. The type of encounter (e.g., comprehensive outpatient visit) is represented. Clinicians participating in the encounter and the location of the planned encounter may be captured. The priority that the patient and providers place on the encounter may be represented.

Table 174: Planned Encounter (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09)					
@classCode	1..1	SHALL		1098-8564	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		1098-8565	urn:oid:2.16.840.1.113883.11.20.9.23 (Planned moodCode (Act/Encounter/Procedure))
templateId	1..1	SHALL		1098-30437	
@root	1..1	SHALL		1098-30438	2.16.840.1.113883.10.20.22.4.40
@extension	1..1	SHALL		1098-32553	2014-06-09
id	1..*	SHALL		1098-8567	
code	0..1	SHOULD		1098-31032	urn:oid:2.16.840.1.113883.11.20.9.52 (Encounter Planned)
statusCode	1..1	SHALL		1098-30439	
@code	1..1	SHALL		1098-31880	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	0..1	SHOULD		1098-30440	
performer	0..*	MAY		1098-30442	
assignedEntity	1..1	SHALL		1098-31874	
author	0..*	SHOULD		1098-32045	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	0..*	MAY		1098-30443	
@typeCode	1..1	SHALL		1098-31875	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
participantRole	1..1	SHALL		1098-31876	Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32)
entryRelationship	0..1	MAY		1098-31033	
@typeCode	1..1	SHALL		1098-31034	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-31035	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)

					22.4.143
entryRelationship	0..*	MAY		1098-31877	
@typeCode	1..1	SHALL		1098-31878	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1098-31879	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.19:2014-06-09

1. **SHALL** contain exactly one [1..1] **@classCode="ENC"** (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8564).
2. **SHALL** contain exactly one [1..1] **@moodCode**, which **SHALL** be selected from ValueSet [Planned moodCode \(Act/Encounter/Procedure\)](#) urn:oid:2.16.840.1.113883.11.20.9.23 **STATIC** 2011-09-30 (CONF:1098-8565).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-30437) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.40"** (CONF:1098-30438).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-06-09"** (CONF:1098-32553).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-8567).

Records the type of encounter ordered or recommended.

5. **SHOULD** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Encounter Planned](#) urn:oid:2.16.840.1.113883.11.20.9.52 **DYNAMIC** (CONF:1098-31032).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-30439).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code="active"** Active (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-31880).
7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-30440).

Performers represent clinicians who are responsible for assessing and treating the patient.

8. **MAY** contain zero or more [0..*] **performer** (CONF:1098-30442) such that it
 - a. **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-31874).

The author in a planned encounter represents the clinician who is requesting or planning the encounter.

9. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-32045).

This location participation captures where the planned or ordered encounter may take place.

10. **MAY** contain zero or more [0..*] **participant** (CONF:1098-30443) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="LOC"** Location (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31875).
 - b. **SHALL** contain exactly one [1..1] [Service Delivery Location](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32) (CONF:1098-31876).

The following entryRelationship represents the priority that a patient or a provider places on the encounter.

11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-31033) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31034).
 - b. **SHALL** contain exactly one [1..1] **Priority Preference** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-31035).

The following entryRelationship captures the reason for the planned or ordered encounter

12. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31877) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31878).
 - b. **SHALL** contain exactly one [1..1] **Indication (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-31879).

Table 175: Encounter Planned

Value Set: Encounter Planned urn:oid:2.16.840.1.113883.11.20.9.52 A value set of SNOMED-CT codes descending from "308335008" patient encounter procedure (procedure). Value Set Source: http://vts1.vetmed.vt.edu/TerminologyMgt/RF2Browser/ISA.cfm?SCT_ConceptID=308335008			
Code	Code System	Code System OID	Print Name
185349003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	encounter for "check-up" (procedure)
439740005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	postoperative follow-up visit (procedure)
439708006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	home visit (procedure)
438515009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	E-mail encounter from carer (procedure)
14736009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	patient evaluation and management
4525004	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	emergency department patient visit
12586001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	physician direction of emergency medical systems
11429006	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	consultation
680007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	radiation physics consultation
726007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	pathology consultation, comprehensive, records and specimen with report
...			

Figure 78: Planned Encounter (V2) Example

```

<entry>
  <encounter moodCode="INT" classCode="ENC">
    <templateId root="2.16.840.1.113883.10.20.22.4.40" extension="2014-06-09" />
    <!-- Planned Encounter V2 template -->
    <id root="9a6d1bac-17d3-4195-89a4-1121bc809b4d" />
    <code code="185349003" displayName="encounter for check-up (procedure)"
codeSystemName="SNOMED CT" codeSystem="2.16.840.1.113883.6.96"> </code>
    <statusCode code="active" />
    <effectiveTime value="20130615" />
    <performer>
      <assignedEntity>
        ...
      </assignedEntity>
    </performer>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <!-- Patient Priority Preference-->
        <templateId root="2.16.840.1.113883.10.20.22.4.142" />
        ...
      </observation>
    </entryRelationship>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <!-- Provider Priority Preference-->
        ...
      </observation>
    </entryRelationship>
  </encounter>
</entry>

```

4.38.1 Encounter Order (V2)

[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.22:2014-12-01
(open)]

Table 176: Encounter Order (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Encounter, Order.

This datatype describes an order for an encounter. This clinical statement describes the ordered interactions between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges.

The moodCode is constrained to “RQO”, an author is required to represent the ordering clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.

Table 177: Encounter Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.22:2014-12-01)					
@classCode	1..1	SHALL		1140-27534	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		1140-11932	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
templateId	1..1	SHALL		1140-11933	
@root	1..1	SHALL		1140-11934	2.16.840.1.113883.10.20.24.3.22
@extension	1..1	SHALL		1140-27064	2014-12-01
code	1..1	SHALL		1140-11936	
@sdtc:valueSet	1..1	SHALL		1140-27623	
author	1..1	SHALL		1140-27341	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-11944	
@typeCode	1..1	SHALL		1140-11945	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27223	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11947	
@typeCode	1..1	SHALL		1140-11948	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27224	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-11950	
@typeCode	1..1	SHALL		1140-11951	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-11952	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Encounter \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode="ENC"** Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27534).
3. **SHALL** contain exactly one [1..1] **@moodCode="RQO"** Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11932).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11933) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.22"** (CONF:1140-11934).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27064).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1140-11936).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27623).

author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed.

6. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27341).
7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11944) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11945).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27223).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11947) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11948).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27224).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11950) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11951).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-11952).

Figure 79: Encounter Order (V2) Example

```
<encounter classCode="ENC" moodCode="RQO">
  <!-- Confirms to C-CDA R2 Planned Encounter (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.40" extension="2014-06-09" />
  <!-- Encounter Order (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.22" extension="2014-12-01" />
  <id root="2a620155-9d11-439e-92b3-5d9815ff4de8" />
  <code code="185349003" displayName="encounter for check-up (procedure)"
    codeSystemName="SNOMED CT" codeSystem="2.16.840.1.113883.6.96"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <text>Encounter for check-up (procedure)</text>
  <statusCode code="active" />
  <effectiveTime>
    <!-- Admission datetime (or encounter start)-->
    <low value="20140329090000+0500" />
    <!-- Discharge datetime (or encounter end)-->
    <high value="20140329103000+0500" />
  </effectiveTime>
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <participant typeCode="LOC">
    <participantRole classCode="SDLOC">
      <code code="31628002" codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Hospital-based outpatient family medicine clinic (environment)"
        sdct:valueSet="{ $QDMElementValueSetOID }" />
      <addr>
        <streetAddressLine>17 Daws Rd.</streetAddressLine>
        <city>Blue Bell</city>
        <state>MA</state>
        <postalCode>02368</postalCode>
        <country>US</country>
      </addr>
      <telecom use="WP" value="tel:(555) 555-1003" />
      <playingEntity classCode="PLC">
        <name>Good Health Clinic</name>
      </playingEntity>
    </participantRole>
  </participant>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
```

```

</entryRelationship>
<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
    <id root="033afa24-82a2-4298-9dda-dea9e60bf44a" />
    ...
  </observation>
</entryRelationship>
<!-- QDM Attribute: Reason -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
    <id root="aa348c15-ce6b-4988-b33b-7ae730c710e2" />
    ...
  </observation>
</entryRelationship>
</encounter>

```

4.38.2 Encounter Recommended (V2)

[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.24:2014-12-01
(open)]

Table 178: Encounter Recommended (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Encounter, Recommended.

This datatype describes a recommendation for an encounter. This clinical statement describes the recommended interaction between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges.

The moodCode is constrained to “INT”, an author is required to represent the recommending clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.

Table 179: Encounter Recommended (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.24:2014-12-01)					
@classCode	1..1	SHALL		1140-27549	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		1140-11911	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
templateId	1..1	SHALL		1140-11912	
@root	1..1	SHALL		1140-11913	2.16.840.1.113883.10.20.24.3.24
@extension	1..1	SHALL		1140-27066	2014-12-01
code	1..1	SHALL		1140-11915	
@sdtc:valueSet	1..1	SHALL		1140-27626	
author	1..1	SHALL		1140-27347	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-11923	
@typeCode	1..1	SHALL		1140-11924	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27221	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11926	
@typeCode	1..1	SHALL		1140-11927	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27222	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-11929	
@typeCode	1..1	SHALL		1140-11930	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27065	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Encounter \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode="ENC"** Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27549).
3. **SHALL** contain exactly one [1..1] **@moodCode="INT"** Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11911).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11912) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.24"** (CONF:1140-11913).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27066).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1140-11915).
 - a. This code **SHALL** contain exactly one [1..1] **@sdctc:valueSet** (CONF:1140-27626).

author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed.

6. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27347).
7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11923) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11924).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27221).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11926) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11927).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27222).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11929) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11930).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27065).

Figure 80: Encounter Recommended (V2) Example

```
<encounter classCode="ENC" moodCode="INT">
  <!-- Confirms to C-CDA R2 Planned Encounter (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.40" extension="2014-06-09" />
  <!-- Encounter Recommended (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.24" extension="2014-12-01" />
  <id root="2a620155-9d11-439e-92b3-5d9815ff4de8" />
  <code code="185349003" displayName="encounter for check-up (procedure)"
    codeSystemName="SNOMED CT" codeSystem="2.16.840.1.113883.6.96"
    sdct:valueSet="{ $QDMElementValueSetOID }"> </code>
  <text>Encounter for check-up (procedure)</text>
  <statusCode code="active" />
  <effectiveTime>
    <!-- Admission datetime (or encounter start)-->
    <low value="20140329090000+0500" />
    <!-- Discharge datetime (or encounter end)-->
    <high value="20140329103000+0500" />
  </effectiveTime>
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <participant typeCode="LOC">
    <participantRole classCode="SDLOC">
      <code code="31628002" codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Hospital-based outpatient family medicine clinic (environment)"
        sdct:valueSet="{ $QDMElementValueSetOID }"> </code>
      <addr>
        <streetAddressLine>17 Daws Rd.</streetAddressLine>
        <city>Blue Bell</city>
        <state>MA</state>
        <postalCode>02368</postalCode>
        <country>US</country>
      </addr>
      <telecom use="WP" value="tel:(555) 555-1003" />
      <playingEntity classCode="PLC">
        <name>Good Health Clinic</name>
      </playingEntity>
    </participantRole>
  </participant>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
```

```

</entryRelationship>
<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
<!-- QDM Attribute: Reason -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</encounter>

```

4.39 Planned Medication Activity (V2)

[substanceAdministration: identifier
urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09 (open)]

Table 180: Planned Medication Activity (V2) Contexts

Contained By:	Contains:
	Author Participation Indication (V2) Instruction (V2) Medication Information (V2) Precondition for Substance Administration (V2) Priority Preference

This template represents planned medication activities. The priority of the medication activity to the patient and provider is communicated through Priority Preference. The effectiveTime indicates the time when the medication activity is intended to take place. The authorTime indicates when the documentation of the plan occurred.

Table 181: Planned Medication Activity (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
substanceAdministration (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09)					
@classCode	1..1	SHALL		1098-8572	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SBADM
@moodCode	1..1	SHALL		1098-8573	urn:oid:2.16.840.1.113883.11.20.9.24 (Planned moodCode (SubstanceAdministration/Supply))
templateId	1..1	SHALL		1098-30465	
@root	1..1	SHALL		1098-30466	2.16.840.1.113883.10.20.22.4.42
@extension	1..1	SHALL		1098-32557	2014-06-09
id	1..*	SHALL		1098-8575	
statusCode	1..1	SHALL		1098-32087	
@code	1..1	SHALL		1098-32088	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	1..1	SHALL		1098-30468	
repeatNumber	0..1	MAY		1098-32066	
routeCode	0..1	MAY		1098-32067	urn:oid:2.16.840.1.113883.3.88.1.2.3221.8.7 (Medication Route FDA)
approachSiteCode	0..*	MAY		1098-32078	urn:oid:2.16.840.1.113883.3.88.1.2.3221.8.9 (Body Site)
doseQuantity	0..1	MAY		1098-32068	
@unit	0..1	SHOULD		1098-32133	urn:oid:2.16.840.1.113883.1.11.1.2839 (UnitsOfMeasureCaseSensitive)
rateQuantity	0..1	MAY		1098-32079	
@unit	0..1	SHOULD		1098-32134	urn:oid:2.16.840.1.113883.1.11.1.2839 (UnitsOfMeasureCaseSensitive)
maxDoseQuantity	0..1	MAY		1098-32080	
administrationUnitCode	0..1	MAY		1098-32081	urn:oid:2.16.840.1.113883.1.11.1.4570 (AdministrableDrugForm)
consumable	1..1	SHALL		1098-32082	

manufacturedProduct	1..1	SHALL		1098-32083	Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.23:2014-06-09)
performer	0..*	MAY		1098-30470	
author	0..1	SHOULD		1098-32046	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..*	MAY		1098-31104	
@typeCode	1..1	SHALL		1098-31105	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-31106	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143)
entryRelationship	0..*	MAY		1098-32069	
@typeCode	1..1	SHALL		1098-32070	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1098-32071	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.19:2014-06-09)
entryRelationship	0..*	MAY		1098-32072	
@typeCode	1..1	SHALL		1098-32073	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
act	1..1	SHALL		1098-32074	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.20:2014-06-09)
precondition	0..*	MAY		1098-32084	
@typeCode	1..1	SHALL		1098-32085	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = PRCN
criterion	1..1	SHALL		1098-32086	Precondition for Substance Administration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.25:2014-06-09)

1. **SHALL** contain exactly one [1..1] @classCode="SBADM" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8572).
2. **SHALL** contain exactly one [1..1] @moodCode, which **SHALL** be selected from ValueSet [Planned moodCode \(SubstanceAdministration/Supply\)](#) urn:oid:2.16.840.1.113883.11.20.9.24 **STATIC** 2011-09-30 (CONF:1098-8573).
3. **SHALL** contain exactly one [1..1] templateId (CONF:1098-30465) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.42" (CONF:1098-30466).
- b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32557).
- 4. **SHALL** contain at least one [1..*] **id** (CONF:1098-8575).
- 5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-32087).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code**="active" Active (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-32088).

The **effectiveTime** in a planned medication activity represents the time that the medication activity should occur.

- 6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-30468).

In a Planned Medication Activity, **repeatNumber** defines the number of allowed administrations. For example, a **repeatNumber** of "3" means that the substance can be administered up to 3 times.

- 7. **MAY** contain zero or one [0..1] **repeatNumber** (CONF:1098-32066).
- 8. **MAY** contain zero or one [0..1] **routeCode**, which **SHALL** be selected from ValueSet [Medication Route FDA](#) urn:oid:2.16.840.1.113883.3.88.12.3221.8.7 **DYNAMIC** (CONF:1098-32067).
- 9. **MAY** contain zero or more [0..*] **approachSiteCode**, which **SHALL** be selected from ValueSet [Body Site](#) urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 **DYNAMIC** (CONF:1098-32078).
- 10. **MAY** contain zero or one [0..1] **doseQuantity** (CONF:1098-32068).
 - a. The **doseQuantity**, if present, **SHOULD** contain zero or one [0..1] **@unit**, which **SHALL** be selected from ValueSet [UnitsOfMeasureCaseSensitive](#) urn:oid:2.16.840.1.113883.1.11.12839 **DYNAMIC** (CONF:1098-32133).
- 11. **MAY** contain zero or one [0..1] **rateQuantity** (CONF:1098-32079).
 - a. The **rateQuantity**, if present, **SHOULD** contain zero or one [0..1] **@unit**, which **SHALL** be selected from ValueSet [UnitsOfMeasureCaseSensitive](#) urn:oid:2.16.840.1.113883.1.11.12839 **DYNAMIC** (CONF:1098-32134).
- 12. **MAY** contain zero or one [0..1] **maxDoseQuantity** (CONF:1098-32080).
- 13. **MAY** contain zero or one [0..1] **administrationUnitCode**, which **SHALL** be selected from ValueSet [AdministrableDrugForm](#) urn:oid:2.16.840.1.113883.1.11.14570 **DYNAMIC** (CONF:1098-32081).
- 14. **SHALL** contain exactly one [1..1] **consumable** (CONF:1098-32082).
 - a. This **consumable** **SHALL** contain exactly one [1..1] [Medication Information \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09) (CONF:1098-32083).

The clinician who is expected to perform the medication activity could be identified using **substanceAdministration/performer**.

- 15. **MAY** contain zero or more [0..*] **performer** (CONF:1098-30470).

The author in a planned medication activity represents the clinician who is requesting or planning the medication activity.

16. **SHOULD** contain zero or one [0..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-32046).

The following entryRelationship represents the priority that a patient or a provider places on the planned medication activity.

17. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31104) such that it
- SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31105).
 - SHALL** contain exactly one [1..1] [Priority Preference](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-31106).

The following entryRelationship represents the indication for the planned medication activity.

18. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32069) such that it
- SHALL** contain exactly one [1..1] @typeCode="RSON" Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32070).
 - SHALL** contain exactly one [1..1] [Indication \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-32071).

The following entryRelationship captures any instructions associated with the planned medication activity.

19. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32072) such that it
- SHALL** contain exactly one [1..1] @typeCode="SUBJ" Has Subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32073).
 - SHALL** contain exactly one [1..1] [Instruction \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-32074).
20. **MAY** contain zero or more [0..*] **precondition** (CONF:1098-32084).
- The precondition, if present, **SHALL** contain exactly one [1..1] @typeCode="PRCN" Precondition (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32085).
 - The precondition, if present, **SHALL** contain exactly one [1..1] [Precondition for Substance Administration \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.25:2014-06-09) (CONF:1098-32086).

Table 182: Planned moodCode (SubstanceAdministration/Supply)

Value Set: Planned moodCode (SubstanceAdministration/Supply) urn:oid:2.16.840.1.113883.11.20.9.24 This value set is used to restrict the moodCode on a substance administration or a supply to future moods. Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
INT	ActMood	urn:oid:2.16.840.1.113883.5.1001	Intent
PRMS	ActMood	urn:oid:2.16.840.1.113883.5.1001	Promise
PRP	ActMood	urn:oid:2.16.840.1.113883.5.1001	Proposal
RQO	ActMood	urn:oid:2.16.840.1.113883.5.1001	Request

Figure 81: Planned Medication Activity (V2) Example

```
<substanceAdministration moodCode="INT" classCode="SBADM">
  <templateId root="2.16.840.1.113883.10.20.22.4.42" extension="2014-06-09" />
  <!-- Planned Medication Activity (V2)-->
  <id root="cdbc33f0-6cde-11db-9fe1-0800200c9a66" />
  <text>Heparin 0.25 ml Prefilled Syringe</text>
  <statusCode code="active" />
  <!-- The effectiveTime in a planned medication activity
       represents the time that the medication activity should occur. -->
  <effectiveTime value="20130905" />
  <consumable>
    <manufacturedProduct classCode="MANU">
      <!-- Medication Information (V2) -->
      ...
    </manufacturedProduct>
  </consumable>
  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Priority Preference-->
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Priority Preference-->
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- Indication (V2) -->
    ...
  </entryRelationship>
  <entryRelationship typeCode="SUBJ">
    <!-- Instruction (V2) -->
    ...
  </entryRelationship>
</substanceAdministration>
```

4.39.1 Medication Order (V2)

[substanceAdministration: identifier
urn:hl7ii:2.16.840.1.113883.10.20.24.3.47:2014-12-01 (open)]

Table 183: Medication Order (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Medication Supply Request (V2) Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatypes: Medication, Order and Substance, Order.

This datatype represents a request by a clinician or appropriately licensed care provider to a pharmacy to provide medication to a patient. The request is in the form of prescriptions or other medication orders with detail adequate for correct filling and administration. This template is broader than a pharmacy supply order and may include a supply order.

The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same.

QDM Attribute: Signed Datetime is the time the order is signed and is represented by author/time/low. QDM Attribute: Active Datetime is the time the order becomes active. In most cases, this is the same as Signed Datetime, but in advance orders it may be after the Signed Datetime. The time the activity is intended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.

Table 184: Medication Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
substanceAdministration (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.47:2014-12-01)					
@classCode	1..1	SHALL		1140-27377	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SBADM
@moodCode	1..1	SHALL		1140-12639	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
@negationInd	0..1	MAY		1140-28084	
templateId	1..1	SHALL		1140-12585	
@root	1..1	SHALL		1140-12586	2.16.840.1.113883.10.20.24.3.47
@extension	1..1	SHALL		1140-27089	2014-12-01
effectiveTime	1..1	SHALL	IVL_TS	1140-27740	
low	1..1	SHALL		1140-27742	
high	0..1	MAY		1140-27743	
effectiveTime	1..1	SHALL	PIVL_TS	1140-27741	
period	1..1	SHALL		1140-27744	
routeCode	0..1	MAY		1140-27734	
@sdtc:valueSet	0..1	SHOULD		1140-27736	
translation	0..*	MAY		1140-27735	
@sdtc:valueSet	1..1	SHALL		1140-27737	
administrationUnitCode	0..1	MAY		1140-27738	
@sdtc:valueSet	1..1	SHALL		1140-27739	
author	1..1	SHALL		1140-27745	
entryRelationship	0..1	MAY		1140-13843	
@typeCode	1..1	SHALL		1140-13844	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27197	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2

					0.24.3.83:2014-12-01
entryRelationship	0..1	MAY		1140-13846	
@typeCode	1..1	SHALL		1140-13847	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27198	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-28008	
@typeCode	1..1	SHALL		1140-28009	RSON
observation	1..1	SHALL		1140-28010	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-12624	
@typeCode	1..1	SHALL		1140-12626	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
supply	1..1	SHALL		1140-13842	Medication Supply Request (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.24.3.99:2015-04-05)

1. Conforms to [Planned Medication Activity \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="SBADM" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27377).
3. **SHALL** contain exactly one [1..1] **@moodCode**="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12639).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28084).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12585) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.47" (CONF:1140-12586).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27089).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-27740) such that it
 - a. **SHALL** contain exactly one [1..1] **low** (CONF:1140-27742).
 - b. **MAY** contain zero or one [0..1] **high** (CONF:1140-27743).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-27741) such that it
 - a. **SHALL** contain exactly one [1..1] **period** (CONF:1140-27744).

If the code used for QDM Attribute: Route does not exist in the value set Medication Route FDA (2.16.840.1.113883.3.88.12.3221.8.7) then set routeCode/@nullFlavor="OTH", routeCode/@codeSystem="2.16.840.1.113883.3.26.1.1" and use translation for the code.

8. **MAY** contain zero or one [0..1] **routeCode** (CONF:1140-27734).
 - a. The routeCode, if present, **SHOULD** contain zero or one [0..1] **@sdct:valueSet** (CONF:1140-27736).
 - b. The routeCode, if present, **MAY** contain zero or more [0..*] **translation** (CONF:1140-27735).
 - i. The translation, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27737).
9. **MAY** contain zero or one [0..1] **administrationUnitCode** (CONF:1140-27738).
 - a. The administrationUnitCode, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27739).

author/time/low represents the time the order is signed and author/time/high represents the time the order becomes active.

10. **SHALL** contain exactly one [1..1] **author** (CONF:1140-27745).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13843) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13844).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27197).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13846) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13847).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27198).
13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-28008) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has reason (CONF:1140-28009).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-28010).
14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12624) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** Component of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12626).
 - b. **SHALL** contain exactly one [1..1] [Medication Supply Request \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.99:2015-04-05) (CONF:1140-13842).

Figure 82: Medication Order (V2) Example

```
<substanceAdministration classCode="SBADM" moodCode="RQO">
  <!-- Conforms to C-CDA R2 Planned Medication Activity (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.42" extension="2014-06-09"/>
  <!-- Medication Order (V2) Template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.47" extension="2014-12-01"/>
  <id root="9a5f4d94-ccad-4d57-80ea-27737545c7bb"/>
  <text>Medication active: 0.09 MG/ACTUAT inhalant solution, 2 puffs
    QID PRN wheezing</text>
  <statusCode code="active"/>
  <effectiveTime xsi:type="IVL_TS">
    <!-- Attribute: start datetime -->
    <low value="20110301"/>
    <!-- Attribute: stop datetime -->
    <high value="20120301"/>
  </effectiveTime>

  <!-- Attribute: frequency -->
  <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true"
    operator="A">
    <period value="6" unit="h"/>
  </effectiveTime>

  <!-- Attribute: refill -->
  <repeatNumber value="2"/>

  <!-- Attribute: route -->
  <routeCode code="C38216"
    codeSystem="2.16.840.1.113883.3.26.1.1"
    codeSystemName="NCI Thesaurus"
    displayName="RESPIRATORY (INHALATION)"
    sdtc:valueSet="{ $QDMElementValueSetOID }"/>
  <!-- Would be actual valueSetOID -->

  <!-- Attribute: dose -->
  <doseQuantity value="1"/>
  <rateQuantity value="90" unit="ml/min"/>
  <maxDoseQuantity nullFlavor="UNK">
    <numerator nullFlavor="UNK"/>
    <denominator nullFlavor="UNK"/>
  </maxDoseQuantity>

  <administrationUnitCode code="C42944" displayName="INHALANT"
    codeSystem="2.16.840.1.113883.3.26.1.1" codeSystemName="NCI Thesaurus"
    sdtc:valueSet="{ $QDMElementValueSetOID }"/>

  <consumable>
    <manufacturedProduct classCode="MANU">
      <!-- Conforms to C-CDA R2 Medication Information (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.23"
        extension="2014-06-09"/>
      <id root="37bfe02a-3e97-4bd6-9197-bbd0ed0de79e"/>
      <manufacturedMaterial>
        <code code="329498"
          codeSystem="2.16.840.1.113883.6.88"
          codeSystemName="RxNorm"
```

```

        displayName="Albuterol 0.09 MG/ACTUAT inhalant solution"
        sdtc:valueSet="{ $QDMElementValueSetOID }" />
    </manufacturedMaterial>
    <manufacturerOrganization>
        <name>Medication Factory Inc.</name>
    </manufacturerOrganization>
</manufacturedProduct>
</consumable>
<author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
        <!-- QDM Attribute: Start Datetime -->
        <low value="201204081130" />
        <!-- QDM Attribute: Stop Datetime -->
        <high value="201204081135" />
    </time>
    <assignedAuthor>
        <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
</author>
<!-- Patient Preference -->
<entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.83"
            extension="2014-12-01"/>
        ...
    </observation>
</entryRelationship>
<!-- Provider Preference -->
<entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.84"
            extension="2014-12-01"/>
        ...
    </observation>
</entryRelationship>
<!-- Reason -->
<entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.88"
            extension="2014-12-01"/>
        ...
    </observation>
</entryRelationship>
</substanceAdministration>

```

4.39.2 Substance Recommended (V2)

[substanceAdministration: identifier
urn:hl7ii:2.16.840.1.113883.10.20.24.3.75:2014-12-01 (open)]

Table 185: Substance Recommended (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Substance, Recommended.

This Substance Recommended template represents a material or consumable that is not considered a clinical drug, such as infant formula, breast milk, other enteral feeding, or a non-prescription lotion or ointment.

The moodCode is constrained to “INT”, an author is required to represent the recommending clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 186: Substance Recommended (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
substanceAdministration (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.75:2014-12-01)					
@classCode	1..1	SHALL		1140-27495	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SBADM
@moodCode	1..1	SHALL		1140-13784	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
@negationInd	0..1	MAY		1140-28112	
templateId	1..1	SHALL		1140-13785	
@root	1..1	SHALL		1140-13786	2.16.840.1.113883.10.20.24.3.75
@extension	1..1	SHALL		1140-27152	2014-12-01
consumable	1..1	SHALL		1140-27988	
manufacturedProduct	1..1	SHALL		1140-27989	
manufacturedMaterial	1..1	SHALL		1140-27990	
code	1..1	SHALL		1140-27991	
@sdtc:valueSet	1..1	SHALL		1140-27992	
author	1..1	SHALL		1140-27720	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-13867	
@typeCode	1..1	SHALL		1140-13868	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-13869	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-13870	
@typeCode	1..1	SHALL		1140-13871	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27166	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-13873	

@typeCode	1..1	SHALL		1140-13874	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27167	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

1. Conforms to [Planned Medication Activity \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09).
2. **SHALL** contain exactly one [1..1] @classCode="SBADM" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27495).
3. **SHALL** contain exactly one [1..1] @moodCode="INT" intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13784).
4. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28112).
5. **SHALL** contain exactly one [1..1] templateId (CONF:1140-13785) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.75" (CONF:1140-13786).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27152).
6. **SHALL** contain exactly one [1..1] consumable (CONF:1140-27988).
 - a. This consumable **SHALL** contain exactly one [1..1] manufacturedProduct (CONF:1140-27989).
 - i. This manufacturedProduct **SHALL** contain exactly one [1..1] manufacturedMaterial (CONF:1140-27990).
 1. This manufacturedMaterial **SHALL** contain exactly one [1..1] code (CONF:1140-27991).
 - a. This code **SHALL** contain exactly one [1..1] @sdctc:setValueSet (CONF:1140-27992).

author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed.

7. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27720).
8. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-13867) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13868).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-13869).
9. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-13870) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13871).

- b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27166).
- 10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13873) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13874).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27167).

Figure 83: Substance Recommended (V2) Example

```
<substanceAdministration classCode="SBADM" moodCode="INT">
  <!-- Conforms to Planned Medication Activity -->
  <templateId root="2.16.840.1.113883.10.20.22.4.42" extension="2014-06-09" />
  <!-- Substance Recommended Template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.75" extension="2014-12-01" />
  <id root="9a5f4d94-ccad-4d57-80ea-27737545c7ff" />
  <statusCode code="active" />
  <!-- QDM Attribute: Frequency -->
  <effectiveTime xsi:type="PIVL_TS" institutionSpecified="true" operator="A">
    <period value="6" unit="h" />
  </effectiveTime>
  <!-- QDM Attribute: Refills -->
  <repeatNumber value="3" />
  <!-- QDM Attributes: Route & Method -->
  <routeCode code="C38216" codeSystem="2.16.840.1.113883.3.26.1.1"
    codeSystemName="NCI Thesaurus" displayName="RESPIRATORY (INHALATION)"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute: Dose -->
  <doseQuantity value="100" unit="mg" />
  <consumable>
    <manufacturedProduct classCode="MANU">
      <!-- Substance Information -->
      <templateId root="2.16.840.1.113883.10.20.24.3.115" extension="2014-12-01" />
      <manufacturedMaterial>
        <!-- Substance -->
        <code code="226789007" displayName="Breast milk"
          codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
          sdct:valueSet="{ $QDMElementValueSetOID}" />
        </manufacturedMaterial>
      </manufacturedProduct>
    </consumable>
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    ...
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</substanceAdministration>
```

```

</entryRelationship>
<!-- QDM Attribute: Reason -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</substanceAdministration>

```

4.40 Planned Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09 (open)]

Table 187: Planned Observation (V2) Contexts

Contained By:	Contains:
	Author Participation Indication (V2) Instruction (V2) Planned Coverage Priority Preference

This template represents planned observations that result in new information about the patient which cannot be classified as a procedure according to the HL7 RIM, i.e., procedures alter the patient's body. Examples of these observations are laboratory tests, diagnostic imaging tests, EEGs, and EKGs.

The importance of the planned observation to the patient and provider is communicated through Priority Preference. The effectiveTime indicates the time when the observation is intended to take place and authorTime indicates when the documentation of the plan occurred.

The Planned Observation template may also indicate the potential insurance coverage for the observation.

Table 188: Planned Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)					
@classCode	1..1	SHALL		1098-8581	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-8582	urn:oid:2.16.840.1.113883.11.20.9.25 (Planned moodCode (Observation))
templateId	1..1	SHALL		1098-30451	
@root	1..1	SHALL		1098-30452	2.16.840.1.113883.10.20.22.4.44
@extension	1..1	SHALL		1098-32555	2014-06-09
id	1..*	SHALL		1098-8584	
code	1..1	SHALL		1098-31030	urn:oid:2.16.840.1.113883.6.1 (LOINC)
statusCode	1..1	SHALL		1098-30453	
@code	1..1	SHALL		1098-32032	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	0..1	SHOULD		1098-30454	
value	0..1	MAY		1098-31031	
methodCode	0..1	MAY		1098-32043	
targetSiteCode	0..*	SHOULD		1098-32044	urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 (Body Site)
performer	0..*	MAY		1098-30456	
author	0..*	SHOULD		1098-32033	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..*	MAY		1098-31073	
@typeCode	1..1	SHALL		1098-31074	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-31075	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143)
entryRelationship	0..*	MAY		1098-32034	
@typeCode	1..1	SHALL		1098-	urn:oid:2.16.840.1.113883.5.100

				32035	2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1098-32036	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.19:2014-06-09)
entryRelationship	0..*	MAY		1098-32037	
@typeCode	1..1	SHALL		1098-32038	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
act	1..1	SHALL		1098-32039	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.20:2014-06-09)
entryRelationship	0..*	MAY		1098-32040	
@typeCode	1..1	SHALL		1098-32041	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
act	1..1	SHALL		1098-32042	Planned Coverage (identifier: urn:oid:2.16.840.1.113883.10.2.22.4.129)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8581).
2. **SHALL** contain exactly one [1..1] **@moodCode**, which **SHALL** be selected from ValueSet [Planned moodCode \(Observation\)](#) urn:oid:2.16.840.1.113883.11.20.9.25 **STATIC** 2011-09-30 (CONF:1098-8582).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-30451) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.44" (CONF:1098-30452).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32555).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-8584).
5. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from CodeSystem LOINC (urn:oid:2.16.840.1.113883.6.1) (CONF:1098-31030).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-30453).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code**="active" Active (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-32032).

The **effectiveTime** in a planned observation represents the time that the observation should occur.

7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-30454).
8. **MAY** contain zero or one [0..1] **value** (CONF:1098-31031).

In a planned observation the provider may suggest that an observation should be performed using a particular method.

9. **MAY** contain zero or one [0..1] **methodCode** (CONF:1098-32043).

The targetSiteCode is used to identify the part of the body of concern for the planned observation.

10. **SHOULD** contain zero or more [0..*] **targetSiteCode**, which **SHALL** be selected from ValueSet [Body Site](#) urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 **DYNAMIC** (CONF:1098-32044).

The clinician who is expected to perform the observation could be identified using procedure/performer.

11. **MAY** contain zero or more [0..*] **performer** (CONF:1098-30456).

The author in a planned observation represents the clinician who is requesting or planning the observation.

12. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-32033).

The following entryRelationship represents the priority that a patient or a provider places on the observation.

13. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31073) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31074).
 - b. **SHALL** contain exactly one [1..1] [Priority Preference](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-31075).

The following entryRelationship represents the indication for the observation.

14. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32034) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32035).
 - b. **SHALL** contain exactly one [1..1] [Indication \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-32036).

The following entryRelationship captures any instructions associated with the planned observation.

15. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32037) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32038).
 - b. **SHALL** contain exactly one [1..1] [Instruction \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-32039).

The following entryRelationship represents the insurance coverage the patient may have for the observation.

16. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32040) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32041).
- b. **SHALL** contain exactly one [1..1] Planned Coverage (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.129) (CONF:1098-32042).

Table 189: Planned moodCode (Observation)

Value Set: Planned moodCode (Observation) urn:oid:2.16.840.1.113883.11.20.9.25			
This value set is used to restrict the moodCode to future moods.			
Value Set Source:			
http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
INT	ActMood	urn:oid:2.16.840.1.113883.5.1001	Intent
PRMS	ActMood	urn:oid:2.16.840.1.113883.5.1001	Promise
PRP	ActMood	urn:oid:2.16.840.1.113883.5.1001	Proposal
RQO	ActMood	urn:oid:2.16.840.1.113883.5.1001	Request

Figure 84: Planned Observation (V2) Example

```
<observation classCode="OBS" moodCode="INT">
  <templateId root="2.16.840.1.113883.10.20.22.4.44"
    extension="2014-06-09" />
  <id root="b52bee94-c34b-4e2c-8c15-5ad9d6def205" />
  <code code="71850-2"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Oxygen saturation [Pure mass fraction] in Capillary blood by
      Oximetry" />
  <statusCode code="active" />
  <effectiveTime value="20130903" />
  <author typeCode="AUT">
    <!-- Author Participation -->
  </author>
  <entryRelationship typeCode="REFR">
    <!-- Priority Preference -->
    ...
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- Indication (V2) -->
    ...
  </entryRelationship>
  <entryRelationship typeCode="SUBJ">
    <!-- Instruction (V2) -->
    ...
  </entryRelationship>
  <entryRelationship typeCode="COMP">
    <!-- Planned Coverage -->
    ...
  </entryRelationship>
</observation>
```

4.40.1 Diagnostic Study Order (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.17:2014-12-01
(open)]

Table 190: Diagnostic Study Order (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Radiation Dosage and Duration (V2) Reason (V2)

This template represents the QDM datatype: Diagnostic Study, Order.

This datatype represents that a diagnostic study has been ordered. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 191: Diagnostic Study Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.17:2014-12-01)					
@classCode	1..1	SHALL		1140-27408	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-13411	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
@negationInd	0..1	MAY		1140-28062	
templateId	1..1	SHALL		1140-13412	
@root	1..1	SHALL		1140-13413	2.16.840.1.113883.10.20.24.3.17
@extension	1..1	SHALL		1140-27069	2014-12-01
code	1..1	SHALL		1140-27615	
@sdtc:valueSet	1..1	SHALL		1140-27616	
author	1..1	SHALL		1140-27340	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-13421	
@typeCode	1..1	SHALL		1140-13422	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27217	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-13424	
@typeCode	1..1	SHALL		1140-13425	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27218	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-13427	
@typeCode	1..1	SHALL		1140-13428	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-13429	Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01)

					0.24.3.91:2014-12-01
entryRelationship	0..1	MAY		1140-13430	
@typeCode	1..1	SHALL		1140-13431	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-13432	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.88:2014-12-01

1. Conforms to [Planned Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09).
 2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27408).
 3. **SHALL** contain exactly one [1..1] **@moodCode**="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13411).
 4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28062).
 5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13412) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.17" (CONF:1140-13413).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27069).
 6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27615).
 - a. This code **SHALL** contain exactly one [1..1] **@sdctc:valueSet** (CONF:1140-27616).
- author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed.
7. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27340).
 8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13421) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13422).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27217).
 9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13424) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13425).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27218).
 10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13427) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13428).

- b. **SHALL** contain exactly one [1..1] Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-13429).
- 11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13430) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13431).
 - b. **SHALL** contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-13432).

Figure 85: Diagnostic Study Order (V2) Example

```
<observation classCode="OBS" moodCode="RQO">
  <!-- Conforms to C-CDA R2 Planned Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09" />
  <!-- Diagnostic Study Order (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.17" extension="2014-12-01" />
  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />
  <code code="24605-8" codeSystem="2.16.840.1.113883.6.1"
    displayName="Breast Mammogram diagnostic" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <text>Diagnostic Study, Order: Breast Mammogram Diagnostic</text>
  <statusCode code="active" />
  <!-- The effectiveTime indicates the time when the Diagnostic Study
        is intended to take place -->
  <effectiveTime>
    <low value="20120329090000+0500" />
    <high value="20120329103000+0500" />
  </effectiveTime>
  <value xsi:type="CD" nullFlavor="NA" />
  <!-- QDM Attribute: Method -->
  <methodCode code="24605-8" codeSystem="2.16.840.1.113883.6.1"
    displayName="Breast Mammogram diagnostic" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- author/time indicates the time when the documentation of the
        order occurred -->
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
```

```

    ...
  </observation>
</entryRelationship>
<entryRelationship typeCode="REFR">
  <observation classCode="OBS" moodCode="EVN">
    <!-- Radiation Dosage and Duration (QRDA I R3) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.91" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</observation>

```

4.40.2 Diagnostic Study Recommended (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.19:2014-12-01 (open)]

Table 192: Diagnostic Study Recommended (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Radiation Dosage and Duration (V2)

This template represents the QDM datatype: Diagnostic Study, Recommended.

Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.

The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 193: Diagnostic Study Recommended (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.19:2014-12-01)					
@classCode	1..1	SHALL		1140-27406	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-13392	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
@negationInd	0..1	MAY		1140-28064	
templateId	1..1	SHALL		1140-13393	
@root	1..1	SHALL		1140-13394	2.16.840.1.113883.10.20.24.3.19
@extension	1..1	SHALL		1140-27070	2014-12-01
code	1..1	SHALL		1140-27619	
@sdct:valueSet	1..1	SHALL		1140-27620	
author	1..1	SHALL		1140-13400	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-13402	
@typeCode	1..1	SHALL		1140-13403	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27215	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-13405	
@typeCode	1..1	SHALL		1140-13406	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27216	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-13408	
@typeCode	1..1	SHALL		1140-13409	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27320	Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2

					0.24.3.91:2014-12-01
--	--	--	--	--	--------------------------------------

1. Conforms to [Planned Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27406).
3. **SHALL** contain exactly one [1..1] **@moodCode**="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13392).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28064).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13393) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.19" (CONF:1140-13394).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27070).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27619).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27620).

author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed.
7. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-13400).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13402) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13403).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27215).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13405) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13406).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27216).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13408) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13409).
 - b. **SHALL** contain exactly one [1..1] [Radiation Dosage and Duration \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27320).

Figure 86: Diagnostic Study Recommended (V2) Example

```
<observation classCode="OBS" moodCode="INT">
  <!-- Conforms to C-CDA R2 Planned Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09" />
  <!-- Diagnostic Study Recommended (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.19" extension="2014-12-01" />
  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />
  <code code="24605-8" codeSystem="2.16.840.1.113883.6.1"
    displayName="Breast Mammogram diagnostic" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <text>Diagnostic Study, Recommended: Breast Mammogram Diagnostic</text>
  <statusCode code="active" />
  <!-- The effectiveTime indicates the time when the Diagnostic Study
        is intended to take place -->
  <effectiveTime>
    <low value="20120329090000+0500" />
    <high value="20120329103000+0500" />
  </effectiveTime>
  <value xsi:type="CD" nullFlavor="NA" />
  <!-- QDM Attribute: Method -->
  <methodCode code="24605-8" codeSystem="2.16.840.1.113883.6.1"
    displayName="Breast Mammogram diagnostic" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- author/time indicates the time when the documentation of the
        order occurred -->
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
```

```

    ...
  </observation>
</entryRelationship>
<entryRelationship typeCode="REFR">
  <observation classCode="OBS" moodCode="EVN">
    <!-- Radiation Dosage and Duration (QRDA I R3) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.91" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</observation>

```

4.40.3 Functional Status Order (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.25:2014-12-01 (open)]

Table 194: Functional Status Order (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Functional Status, Order.

This datatype represents an order to perform a functional status assessment. Functional status assessments are specific tools that evaluate an individual patient's actual physical or behavioral performance as an indicator of capabilities at a point in time. The functional status assessment can be used in measurement to determine change in physical or behavioral performance over time.

The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 195: Functional Status Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.25:2014-12-01)					
@classCode	1..1	SHALL		1140-27725	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12774	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
@negationInd	0..1	MAY		1140-28066	
templateId	1..1	SHALL		1140-12775	
@root	1..1	SHALL		1140-12776	2.16.840.1.113883.10.20.24.3.25
@extension	1..1	SHALL		1140-27071	2014-12-01
code	1..1	SHALL		1140-12778	
@sdtc:valueSet	1..1	SHALL		1140-27627	
author	1..1	SHALL		1140-27342	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-12784	
@typeCode	1..1	SHALL		1140-12785	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27213	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12787	
@typeCode	1..1	SHALL		1140-12788	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27214	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-12790	
@typeCode	1..1	SHALL		1140-12791	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-12792	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27725).
3. **SHALL** contain exactly one [1..1] **@moodCode**="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12774).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28066).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12775) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.25" (CONF:1140-12776).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27071).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12778).
 - a. This code **SHALL** contain exactly one [1..1] **@sdhc:valueSet** (CONF:1140-27627).

author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed.

7. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27342).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12784) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12785).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27213).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12787) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12788).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27214).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12790) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12791).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-12792).

Figure 87: Functional Status Order (V2) Example

```
<observation classCode="OBS" moodCode="RQO">
  <!-- Conforms to C-CDA R2 Planned Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09" />
  <!-- Functional Status Order (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.25" extension="2014-12-01" />
  <id root="7eda6f24-4019-471f-9fe4-6d8c3489916c" />
  <!-- Functional Status Assessment -->
  <code code="72195-1" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Physical limitation score [KCCQ]"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <text>Functional Status, Order: Physical limitation score [KCCQ]</text>
  <statusCode code="active" />
  <!-- QDM Attribute: Method -->
  <methodCode code="72015-1" codeSystem="2.16.840.1.113883.6.1"
    displayName="VR-12 Role physical (RP) score - oblique method"
    codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.40.4 Functional Status Recommended (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.27:2014-12-01
(open)]

Table 196: Functional Status Recommended (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Functional Status, Recommended.

The Functional Status template represents a recommendation to perform a functional status assessment. Functional status assessments are specific tools that evaluate an individual patient's actual physical or behavioral performance as an indicator of capabilities at a point in time. The functional status assessment can be used in measurement to determine change in physical or behavioral performance over time.

The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 197: Functional Status Recommended (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.27:2014-12-01)					
@classCode	1..1	SHALL		1140-27724	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12814	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
@negationInd	0..1	MAY		1140-28068	
templateId	1..1	SHALL		1140-12815	
@root	1..1	SHALL		1140-12816	2.16.840.1.113883.10.20.24.3.27
@extension	1..1	SHALL		1140-27072	2014-12-01
code	1..1	SHALL		1140-27630	
@sdtc:valueSet	1..1	SHALL		1140-27631	
author	1..1	SHALL		1140-27348	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-12824	
@typeCode	1..1	SHALL		1140-12825	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27211	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12827	
@typeCode	1..1	SHALL		1140-12828	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27212	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-12830	
@typeCode	1..1	SHALL		1140-12831	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-12832	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27724).
3. **SHALL** contain exactly one [1..1] **@moodCode**="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12814).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28068).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12815) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.27" (CONF:1140-12816).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27072).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27630).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27631).

author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed.

7. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27348).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12824) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12825).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27211).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12827) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12828).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27212).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12830) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12831).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-12832).

Figure 88: Functional Status Recommended (V2) Example

```
<observation classCode="OBS" moodCode="INT">
  <!-- Conforms to C-CDA R2 Planned Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09" />
  <!-- Functional Status Recommended (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.27" extension="2014-12-01" />
  <id root="7eda6f24-4019-471f-9fe4-6d8c3489916d" />
  <!-- Functional Status Assessment -->
  <code code="72195-1" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Physical limitation score [KCCQ]"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <text>Functional Status, Order: Physical limitation score [KCCQ]</text>
  <statusCode code="active" />
  <!-- QDM Attribute: Method -->
  <methodCode code="72015-1" codeSystem="2.16.840.1.113883.6.1"
    displayName="VR-12 Role physical (RP) score - oblique method"
    codeSystemName="LOINC"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      <id root="5750a5bb-6a01-4b99-9b1c-cda56b1dce0c" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.40.5 Laboratory Test Order (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.37:2014-12-01
(open)]

Table 198: Laboratory Test Order (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Laboratory Test, Order.

This datatype represents an order for a laboratory test. A laboratory test is a medical procedure that involves testing a sample of blood, urine, or other substance from the body. Tests can help determine a diagnosis, plan treatment, check if treatment is working, or monitor the disease over time.

The moodCode is constrained to “RQO”, an author is required to represent the ordering clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 199: Laboratory Test Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.37:2014-12-01)					
@classCode	1..1	SHALL		1140-27417	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11953	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
@negationInd	0..1	MAY		1140-28076	
templateId	1..1	SHALL		1140-11954	
@root	1..1	SHALL		1140-11955	2.16.840.1.113883.10.20.24.3.37
@extension	1..1	SHALL		1140-27075	2014-12-01
code	1..1	SHALL		1140-11957	
@sdtc:valueSet	1..1	SHALL		1140-27636	
author	1..1	SHALL		1140-27344	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-11963	
@typeCode	1..1	SHALL		1140-11964	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27209	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11966	
@typeCode	1..1	SHALL		1140-11967	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27210	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-11969	
@typeCode	1..1	SHALL		1140-11970	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27074	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27417).
3. **SHALL** contain exactly one [1..1] **@moodCode**="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11953).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28076).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11954) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.37" (CONF:1140-11955).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27075).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-11957).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27636).

author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed.

7. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27344).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11963) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11964).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27209).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11966) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11967).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27210).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11969) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11970).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27074).

Figure 89: Laboratory Test Order (V2) Example

```
<observation classCode="OBS" moodCode="RQO">
  <!-- Conforms to C-CDA R2 Planned Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09" />
  <!-- Laboratory Test, Order (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.37" extension="2014-12-01" />
  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />
  <!-- Laboratory Test -->
  <code code="4544-3" displayName="Hematocrit"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    sdctc:valueSet="{ $QDMElementValueSetOID }" />
  <statusCode code="active" />
  <!-- QDM Attribute: Method -->
  <methodCode code="58410-2"
    displayName="Complete blood count (hemogram) panel - Blood by Automated count"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    sdctc:valueSet="{ $QDMElementValueSetOID }" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Patient Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.40.6 Laboratory Test Recommended (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.39:2014-12-01
(open)]

Table 200: Laboratory Test Recommended (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Laboratory Test, Recommended.

This datatype represents a recommendation for a laboratory test. A laboratory test is a medical procedure that involves testing a sample of blood, urine, or other substance from the body. Tests can help determine a diagnosis, plan treatment, check if treatment is working, or monitor the disease over time.

The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 201: Laboratory Test Recommended (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.39:2014-12-01)					
@classCode	1..1	SHALL		1140-27416	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11793	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
@negationInd	0..1	MAY		1140-28078	
templateId	1..1	SHALL		1140-11794	
@root	1..1	SHALL		1140-11795	2.16.840.1.113883.10.20.24.3.39
@extension	1..1	SHALL		1140-27077	2014-12-01
code	1..1	SHALL		1140-27639	
@sdct:valueSet	1..1	SHALL		1140-27640	
author	1..1	SHALL		1140-27350	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-11804	
@typeCode	1..1	SHALL		1140-11805	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27207	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11807	
@typeCode	1..1	SHALL		1140-11808	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27208	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-11811	
@typeCode	1..1	SHALL		1140-11812	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-11813	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27416).
3. **SHALL** contain exactly one [1..1] **@moodCode**="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11793).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28078).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11794) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.39" (CONF:1140-11795).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27077).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27639).
 - a. This code **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27640).

author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed.

7. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27350).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11804) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11805).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27207).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11807) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11808).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27208).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11811) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11812).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-11813).

Figure 90: Laboratory Test Recommended (V2) Example

```
<observation classCode="OBS" moodCode="INT">
  <!-- Conforms to C-CDA R2 Planned Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09" />
  <!-- Laboratory Test, Recommended(V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.39" extension="2014-12-01" />
  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b4" />
  <!-- Laboratory Test -->
  <code code="4544-3" displayName="Hematocrit"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <statusCode code="active" />
  <!-- QDM Attribute: Method -->
  <methodCode code="58410-2"
    displayName="Complete blood count (hemogram) panel - Blood by Automated count"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Patient Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.40.7 Physical Exam Order (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.58:2014-12-01
(open)]

Table 202: Physical Exam Order (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Physical Exam, Order.

This datatype represents a request by a physician or appropriately licensed care provider to order a physical exam for the patient.

The moodCode is constrained to “RQO”, an author is required to represent the ordering clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 203: Physical Exam Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.58:2014-12-01)					
@classCode	1..1	SHALL		1140-27550	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12685	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
@negationInd	0..1	MAY		1140-28092	
templateId	1..1	SHALL		1140-12686	
@root	1..1	SHALL		1140-12687	2.16.840.1.113883.10.20.24.3.58
@extension	1..1	SHALL		1140-27078	2014-12-01
code	1..1	SHALL		1140-12689	
@code	1..1	SHALL		1140-13242	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 29545-1
value	1..1	SHALL	CD	1140-13254	
@sdtc:valueSet	1..1	SHALL		1140-27650	
author	1..1	SHALL		1140-27345	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-12695	
@typeCode	1..1	SHALL		1140-12696	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27205	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12698	
@typeCode	1..1	SHALL		1140-12699	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27206	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-12701	
@typeCode	1..1	SHALL		1140-12702	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) =

					RSON
observation	1..1	SHALL		1140-12703	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27550).
3. **SHALL** contain exactly one [1..1] **@moodCode**="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12685).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28092).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12686) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.58" (CONF:1140-12687).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27078).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12689).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="29545-1" physical examination (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-13242).
7. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-13254).
 - a. This value **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27650).

author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed.

8. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27345).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12695) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12696).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27205).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12698) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12699).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27206).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12701) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12702).

- b. **SHALL** contain exactly one [1..1] Reason (V2) (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-
12703).

Figure 91: Physical Exam Order (V2) Example

```
<observation classCode="OBS" moodCode="RQO">
  <!-- Conforms to C-CDA R2 Planned Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09" />
  <!-- Physical Exam Order (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.58" extension="2014-12-01" />
  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />
  <code code="29545-1" codeSystem="2.16.840.1.113883.6.1"
    displayName="physical examination" codeSystemName="LOINC" />
  <statusCode code="active" />
  <value xsi:type="CD" code="29463-7" codeSystem="2.16.840.1.113883.6.1"
    displayName="Body weight" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- QDM Attribute: Method -->
  <methodCode code="8350-1" codeSystem="2.16.840.1.113883.6.1"
    displayName="Body weight Measured --with clothes" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- author/time indicates the time when the documentation of the
    order occurred -->
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.40.8 Physical Exam Recommended (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.60:2014-12-01
(open)]

Table 204: Physical Exam Recommended (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Physical Exam, Recommended.

This datatype represents a recommendation by a physician or appropriately licensed care provider for a physical exam to be performed on the patient.

The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 205: Physical Exam Recommended (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.60:2014-12-01)					
@classCode	1..1	SHALL		1140-27556	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12665	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
@negationInd	0..1	MAY		1140-28094	
templateId	1..1	SHALL		1140-12666	
@root	1..1	SHALL		1140-12667	2.16.840.1.113883.10.20.24.3.60
@extension	1..1	SHALL		1140-27082	2014-12-01
code	1..1	SHALL		1140-12669	
@code	1..1	SHALL		1140-13274	29545-1
@codeSystem	1..1	SHALL		1140-28132	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
value	1..1	SHALL	CD	1140-13275	
@sdtc:valueSet	1..1	SHALL		1140-27653	
author	1..1	SHALL		1140-27351	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-12673	
@typeCode	1..1	SHALL		1140-12674	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27203	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12676	
@typeCode	1..1	SHALL		1140-12677	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27204	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-12679	

@typeCode	1..1	SHALL		1140-12680	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-12681	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09).
2. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27556).
3. **SHALL** contain exactly one [1..1] @moodCode="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12665).
4. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28094).
5. **SHALL** contain exactly one [1..1] templateId (CONF:1140-12666) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.60" (CONF:1140-12667).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27082).
6. **SHALL** contain exactly one [1..1] code (CONF:1140-12669).
 - a. This code **SHALL** contain exactly one [1..1] @code="29545-1" physical examination (CONF:1140-13274).
 - b. This code **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28132).
7. **SHALL** contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-13275).
 - a. This value **SHALL** contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27653).

author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed.

8. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27351).
9. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12673) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12674).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27203).
10. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12676) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12677).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27204).

11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12679) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12680).
 - b. **SHALL** contain exactly one [1..1] **Reason (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-12681).

Figure 92: Physical Exam Recommended (V2) Example

```
<observation classCode="OBS" moodCode="INT">
  <!-- Conforms to C-CDA R2 Planned Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.44" extension="2014-06-09" />
  <!-- Physical Exam Recommended (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.60" extension="2014-12-01" />
  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />
  <code code="29545-1" codeSystem="2.16.840.1.113883.6.1"
    displayName="physical examination" codeSystemName="LOINC" />
  <statusCode code="active" />
  <value xsi:type="CD" code="29463-7" codeSystem="2.16.840.1.113883.6.1"
    displayName="Body weight" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- QDM Attribute: Method -->
  <methodCode code="8350-1" codeSystem="2.16.840.1.113883.6.1"
    displayName="Body weight Measured --with clothes" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- author/time indicates the time when the documentation of the
    recommendation occurred -->
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```


4.41 Planned Procedure (V2)

[procedure: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09
(open)]

Table 206: Planned Procedure (V2) Contexts

Contained By:	Contains:
	Author Participation Indication (V2) Instruction (V2) Planned Coverage Priority Preference

This template represents planned alterations of the patient's physical condition. Examples of such procedures are tracheostomy, knee replacement, and craniectomy. The priority of the procedure to the patient and provider is communicated through Priority Preference. The effectiveTime indicates the time when the procedure is intended to take place and authorTime indicates when the documentation of the plan occurred. The Planned Procedure Template may also indicate the potential insurance coverage for the procedure.

Table 207: Planned Procedure (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
procedure (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09)					
@classCode	1..1	SHALL		1098-8568	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC
@moodCode	1..1	SHALL		1098-8569	urn:oid:2.16.840.1.113883.11.20.9.23 (Planned moodCode (Act/Encounter/Procedure))
templateId	1..1	SHALL		1098-30444	
@root	1..1	SHALL		1098-30445	2.16.840.1.113883.10.20.22.4.41
@extension	1..1	SHALL		1098-32554	2014-06-09
id	1..*	SHALL		1098-8571	
code	1..1	SHALL		1098-31976	
statusCode	1..1	SHALL		1098-30446	
@code	1..1	SHALL		1098-31978	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	0..1	SHOULD		1098-30447	
methodCode	0..*	MAY		1098-31980	
targetSiteCode	0..*	MAY		1098-31981	urn:oid:2.16.840.1.113883.3.88.1.2.3221.8.9 (Body Site)
performer	0..*	MAY		1098-30449	
author	0..1	SHOULD		1098-31979	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..*	MAY		1098-31079	
@typeCode	1..1	SHALL		1098-31080	urn:oid:2.16.840.1.113883.5.100.2 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-31081	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143)
entryRelationship	0..*	MAY		1098-31982	
@typeCode	1..1	SHALL		1098-31983	urn:oid:2.16.840.1.113883.5.100.2 (HL7ActRelationshipType) = RSON

observation	1..1	SHALL		1098-31984	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.19:2014-06-09)
entryRelationship	0..*	MAY		1098-31985	
@typeCode	1..1	SHALL		1098-31986	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1098-31987	true
act	1..1	SHALL		1098-31989	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.20:2014-06-09)
entryRelationship	0..*	MAY		1098-31990	
@typeCode	1..1	SHALL		1098-31991	COMP
act	1..1	SHALL		1098-31992	Planned Coverage (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.129)

1. **SHALL** contain exactly one [1..1] @**classCode**="PROC" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8568).
2. **SHALL** contain exactly one [1..1] @**moodCode**, which **SHALL** be selected from ValueSet [Planned moodCode \(Act/Encounter/Procedure\)](#) urn:oid:2.16.840.1.113883.11.20.9.23 **STATIC** 2011-09-30 (CONF:1098-8569).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-30444) such that it
 - a. **SHALL** contain exactly one [1..1] @**root**="2.16.840.1.113883.10.20.22.4.41" (CONF:1098-30445).
 - b. **SHALL** contain exactly one [1..1] @**extension**="2014-06-09" (CONF:1098-32554).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-8571).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-31976).
 - a. The procedure/code in a planned procedure **SHOULD** be selected from LOINC (codeSystem 2.16.840.1.113883.6.1) **OR** SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96), and **MAY** be selected from CPT-4 (CodeSystem: 2.16.840.1.113883.6.12) **OR** ICD10 PCS (CodeSystem: 2.16.840.1.113883.6.4) (CONF:1098-31977).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-30446).
 - a. This statusCode **SHALL** contain exactly one [1..1] @**code**="active" Active (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-31978).

The effectiveTime in a planned procedure represents the time that the procedure should occur.

7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-30447).

In a planned procedure the provider may suggest that a procedure should be performed using a particular method.

MethodCode **SHALL NOT** conflict with the method inherent in Procedure / code.

8. **MAY** contain zero or more [0..*] **methodCode** (CONF:1098-31980).

The targetSiteCode is used to identify the part of the body of concern for the planned procedure.

9. **MAY** contain zero or more [0..*] **targetSiteCode**, which **SHALL** be selected from ValueSet [Body Site](#) urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 **DYNAMIC** (CONF:1098-31981).

The clinician who is expected to perform the procedure could be identified using procedure/performer.

10. **MAY** contain zero or more [0..*] **performer** (CONF:1098-30449).

The author in a planned procedure represents the clinician who is requesting or planning the procedure.

11. **SHOULD** contain zero or one [0..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-31979).

The following entryRelationship represents the priority that a patient or a provider places on the procedure.

12. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31079) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31080).
- b. **SHALL** contain exactly one [1..1] [Priority Preference](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-31081).

The following entryRelationship represents the indication for the procedure.

13. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31982) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31983).
- b. **SHALL** contain exactly one [1..1] [Indication \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-31984).

The following entryRelationship captures any instructions associated with the planned procedure.

14. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31985) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has Subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31986).
- b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** True (CONF:1098-31987).
- c. **SHALL** contain exactly one [1..1] [Instruction \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-31989).

The following entryRelationship represents the insurance coverage the patient may have for the procedure.

15. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31990) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** Has component (CONF:1098-31991).
 - b. **SHALL** contain exactly one [1..1] **Planned Coverage** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.129) (CONF:1098-31992).

Figure 93: Planned Procedure (V2) Example

```
<entry>
  <procedure moodCode="RQO" classCode="PROC">
    <templateId root="2.16.840.1.113883.10.20.22.4.41" extension="2014-06-09" />
    <!-- **Planned Procedure (V2) template ** -->
    <id root="9a6d1bac-17d3-4195-89c4-1121bc809b5a" />
    <code code="73761001" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED
CT" displayName="Colonoscopy" />
    <statusCode code="active" />
    <effectiveTime value="20130613" />
    <!-- Author Participation -->
    <author typeCode="AUT">
      ...
    </author>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <!-- Patient Priority Preference-->
        <templateId root="2.16.840.1.113883.10.20.22.4.142" />
        ...
      </observation>
    </entryRelationship>
    <entryRelationship typeCode="REFR">
      <observation classCode="OBS" moodCode="EVN">
        <!-- Provider Priority Preference-->
        <templateId root="2.16.840.1.113883.10.20.22.4.143" />
        ...
      </observation>
    </entryRelationship>
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <!-- Indication-->
        <templateId root="2.16.840.1.113883.10.20.22.4.19" extension="2014-06-09"
/>
        ...
      </observation>
    </entryRelationship>
    <entryRelationship typeCode="SUBJ">
      <act classCode="ACT" moodCode="INT">
        <!-- Instruction-->
        <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09"
/>
        ...
      </act>
    </entryRelationship>
    <entryRelationship typeCode="COMP">
      <observation classCode="ACT" moodCode="INT">
        <!-- Planned Coverage -->
        <templateId root="2.16.840.1.113883.10.20.22.4.129" />
        ...
      </observation>
    </entryRelationship>
  </procedure>
</entry>
```

4.41.1 Procedure Order (V2)

[procedure: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.63:2014-12-01
(open)]

Table 208: Procedure Order (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Radiation Dosage and Duration (V2) Reason (V2)

This template represents the QDM datatype: Procedure, Order.

Procedure Order describes an order for a procedure. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment. Note that procedure is distinct from intervention.

The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 209: Procedure Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
procedure (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.63:2014-12-01)					
@classCode	1..1	SHALL		1140-27323	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC
@moodCode	1..1	SHALL		1140-11097	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
@negationInd	0..1	MAY		1140-28097	
templateId	1..1	SHALL		1140-11098	
@root	1..1	SHALL		1140-11099	2.16.840.1.113883.10.20.24.3.63
@extension	1..1	SHALL		1140-27083	2014-12-01
code	1..1	SHALL		1140-27324	
@sdtc:valueSet	1..1	SHALL		1140-27330	
priorityCode	0..1	MAY		1140-14551	
@sdtc:valueSet	1..1	SHALL		1140-27325	
methodCode	0..1	MAY		1140-11606	
@sdtc:valueSet	1..1	SHALL		1140-27326	
approachSiteCode	0..*	MAY		1140-27327	
@sdtc:valueSet	1..1	SHALL		1140-27331	
targetSiteCode	0..1	MAY		1140-27328	
@sdtc:valueSet	0..1	SHOULD		1140-27332	
translation	0..1	MAY		1140-27732	
@sdtc:valueSet	1..1	SHALL		1140-27733	
author	1..1	SHALL		1140-27346	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-11610	
@typeCode	1..1	SHALL		1140-11611	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) =

					RSON
observation	1..1	SHALL		1140-27201	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11613	
@typeCode	1..1	SHALL		1140-11614	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27202	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-11616	
@typeCode	1..1	SHALL		1140-11617	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-11618	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-27329	
@typeCode	1..1	SHALL		1140-27333	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27334	Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.91:2014-12-01)

1. Conforms to [Planned Procedure \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27323).
3. **SHALL** contain exactly one [1..1] **@moodCode**="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11097).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28097).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11098) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.63" (CONF:1140-11099).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27083).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27324).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27330).
7. **MAY** contain zero or one [0..1] **priorityCode** (CONF:1140-14551).
 - a. The priorityCode, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27325).

8. **MAY** contain zero or one [0..1] **methodCode** (CONF:1140-11606).
 - a. The methodCode, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27326).
9. **MAY** contain zero or more [0..*] **approachSiteCode** (CONF:1140-27327).
 - a. The approachSiteCode, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27331).

If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code.

10. **MAY** contain zero or one [0..1] **targetSiteCode** (CONF:1140-27328).
 - a. The targetSiteCode, if present, **SHOULD** contain zero or one [0..1] **@sdct:valueSet** (CONF:1140-27332).
 - b. The targetSiteCode, if present, **MAY** contain zero or one [0..1] **translation** (CONF:1140-27732).
 - i. The translation, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27733).

author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed.

11. **SHALL** contain exactly one [1..1] **Author Participation** (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27346).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11610) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11611).
 - b. **SHALL** contain exactly one [1..1] **Patient Preference (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27201).
13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11613) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11614).
 - b. **SHALL** contain exactly one [1..1] **Provider Preference (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27202).
14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11616) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11617).
 - b. **SHALL** contain exactly one [1..1] **Reason (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-11618).
15. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27329) such that it

- a. **SHALL** contain exactly one [1..1] @**typeCode**="REFR" refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27333).
- b. **SHALL** contain exactly one [1..1] [Radiation Dosage and Duration \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27334).

Figure 94: Procedure Order (V2) Example

```
<procedure classCode="PROC" moodCode="RQO">
  <!-- Conforms to C-CDA R2 Planned Procedure (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.41" extension="2014-06-09" />
  <!-- Procedure Order (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.63" extension="2014-12-01" />
  <id root="5bc8cc9d-d59a-4dda-99d8-1463b2e71d06" />
  <code code="235326000" displayName="Right hemicolectomy"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <statusCode code="active" />
  <!-- QDM Attribute: Ordinality -->
  <!-- The following code may not be correct and may change in the future (if
    the relevant eMeasure is changed -->
  <priorityCode code="63161005" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="Principal"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute: Method -->
  <methodCode code="446223002" codeSystem="2.16.840.1.113883.6.96"
    displayName="Hand assisted laparoscopic right colectomy"
    codeSystemName="SNOMED-CT" sdct:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDA Attribute: Anatomical Approach Site -->
  <approachSiteCode code="14742008" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="large intestinal structure"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute: Anatomical Location Site -->
  <targetSiteCode code="71854001" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="colon"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="20150329090000+0500" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="20150329103000+0500" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
```

```

<entryRelationship typeCode="REFR">
  <observation classCode="OBS" moodCode="EVN">
    <!-- Radiation Dosage and Duration (V2) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.91" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</procedure>

```

Figure 95: Procedure Order (V2) - targetSiteCode/translation - Example

```

<procedure classCode="PROC" moodCode="RQO">
  <!-- Conforms to C-CDA R2 Planned Procedure (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.41" extension="2014-06-09" />
  <!-- Procedure Order (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.63"
    extension="2014-12-01" />
  ...
  <!-- QDM Attribute: Anatomical Location Site -->
  <targetSiteCode nullFlavor="OTH" codeSystem="2.16.840.1.113883.6.96">
    <translation code="I21.01" displayName="Term not in Body Site value set"
      codeSystem="2.16.840.1.113883.6.90" codeSystemName="ICD10CM"
      sdtc:valueSet="{ $QDMElementValueSetOID}" />
  </targetSiteCode>
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="CD">
      <!-- QDM Attribute: Start Datetime -->
      <low value="20150329090000+0500" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="20150329103000+0500" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  ...
</procedure>

```

4.41.2 Procedure Recommended (V2)

[procedure: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.65:2014-12-01
(open)]

Table 210: Procedure Recommended (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Procedure, Recommended.

Procedure Recommended describes a recommendation for a procedure. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment. Note that procedure is distinct from intervention.

The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 211: Procedure Recommended (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
procedure (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.65:2014-12-01)					
@classCode	1..1	SHALL		1140-27337	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC
@moodCode	1..1	SHALL		1140-11103	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
@negationInd	0..1	MAY		1140-28099	
templateId	1..1	SHALL		1140-11104	
@root	1..1	SHALL		1140-11105	2.16.840.1.113883.10.20.24.3.65
@extension	1..1	SHALL		1140-27086	2014-12-01
code	1..1	SHALL		1140-11107	
@sdct:valueSet	1..1	SHALL		1140-27654	
priorityCode	0..1	MAY		1140-14553	
approachSiteCode	0..*	MAY		1140-27338	
targetSiteCode	0..1	MAY		1140-27726	
@sdct:valueSet	0..1	SHOULD		1140-27728	
translation	0..*	MAY		1140-27727	
@sdct:valueSet	1..1	SHALL		1140-27729	
author	1..1	SHALL		1140-27352	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1140-11586	
@typeCode	1..1	SHALL		1140-11587	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27199	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11589	
@typeCode	1..1	SHALL		1140-11591	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) =

					RSON
observation	1..1	SHALL		1140-27200	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-11592	
@typeCode	1..1	SHALL		1140-11593	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27085	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

1. Conforms to [Planned Procedure \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode="PROC"** Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27337).
3. **SHALL** contain exactly one [1..1] **@moodCode="INT"** Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11103).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28099).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11104) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.65"** (CONF:1140-11105).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27086).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-11107).
 - a. This code **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27654).
7. **MAY** contain zero or one [0..1] **priorityCode** (CONF:1140-14553).
8. **MAY** contain zero or more [0..*] **approachSiteCode** (CONF:1140-27338).

If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then use targetSiteCode/@nullFlavor="OTH", code@codeSystem="2.16.840.1.113883.6.96" and use translation for the code. (See example below).

9. **MAY** contain zero or one [0..1] **targetSiteCode** (CONF:1140-27726).
 - a. The targetSiteCode, if present, **SHOULD** contain zero or one [0..1] **@sdtc:valueSet** (CONF:1140-27728).
 - b. The targetSiteCode, if present, **MAY** contain zero or more [0..*] **translation** (CONF:1140-27727).
 - i. The translation, if present, **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27729).

author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed.

10. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27352).

11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11586) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11587).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27199).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11589) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11591).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27200).
13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11592) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11593).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27085).

Figure 96: Procedure Recommended (V2) Example

```
<procedure classCode="PROC" moodCode="INT">
  <!-- Conforms to C-CDA R2 Planned Procedure (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.41" extension="2014-06-09" />
  <!-- Procedure Recommended (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.65" extension="2014-12-01" />
  <id root="5a132c58-bd4f-4c46-b082-b7f84909834f" />
  <!-- Procedure -->
  <code code="235326000" displayName="Right hemicolectomy"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <text>Procedure, Recommended: Right hemicolectomy </text>
  <statusCode code="active" />
  <!-- QDM Attribute: Ordinality -->
  <!-- The following code may not be correct and may change in the future (if
    the relevant eMeasure is changed -->
  <priorityCode code="63161005" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="Principal"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute: Method -->
  <methodCode code="446223002" codeSystem="2.16.840.1.113883.6.96"
    displayName="Hand assisted laparoscopic right colectomy"
    codeSystemName="SNOMED-CT" sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDA Attribute: Anatomical Approach Site -->
  <approachSiteCode code="14742008" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="large intestinal structure"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute: Anatomical Location Site -->
  <targetSiteCode code="71854001" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="colon"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="20150329090000+0500" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="20150329103000+0500" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="111111111" />
    </assignedAuthor>
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  ...
</procedure>
```

```

    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</procedure>

```

Figure 97: Procedure Recommended (V2) - targetSiteCode/translation Example

```

<procedure classCode="PROC" moodCode="INT">
  <!-- Conforms to C-CDA R2 Planned Procedure (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.41" extension="2014-06-09" />
  <!-- Procedure Recommended (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.65" extension="2014-12-01" />
  ...
  <!-- QDM Attribute: Anatomical Location Site -->
  <targetSiteCode nullFlavor="OTH" codeSystem="2.16.840.1.113883.6.96">
    <translation code="I21.01" displayName="Term not in Body Site value set"
      codeSystem="2.16.840.1.113883.6.90" codeSystemName="ICD10CM"
      sdtc:valueSet="{ $QDMElementValueSetOID}" />
  </targetSiteCode>
  ...
</procedure>

```

4.42 Planned Supply (V2)

[supply: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09
(open)]

Table 212: Planned Supply (V2) Contexts

Contained By:	Contains:
	Author Participation Immunization Medication Information (V2) Indication (V2) Instruction (V2) Medication Information (V2) Planned Coverage Priority Preference Product Instance

This template represents both medicinal and non-medicinal supplies ordered, requested, or intended for the patient (e.g., medication prescription, order for wheelchair). The importance of the supply order or request to the patient and provider may be indicated in the Priority Preference.

The effective time indicates the time when the supply is intended to take place and author time indicates when the documentation of the plan occurred. The Planned Supply template may also indicate the potential insurance coverage for the procedure.

Depending on the type of supply, the product or participant will be either a Medication Information product (medication), an Immunization Medication Information product (immunization), or a Product Instance participant (device/equipment).

Table 213: Planned Supply (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
supply (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09)					
@classCode	1..1	SHALL		1098-8577	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SPLY
@moodCode	1..1	SHALL		1098-8578	urn:oid:2.16.840.1.113883.11.20.9.24 (Planned moodCode (SubstanceAdministration/Supply))
templateId	1..1	SHALL		1098-30463	
@root	1..1	SHALL		1098-30464	2.16.840.1.113883.10.20.22.4.43
@extension	1..1	SHALL		1098-32556	2014-06-09
id	1..*	SHALL		1098-8580	
statusCode	1..1	SHALL		1098-30458	
@code	1..1	SHALL		1098-32047	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	0..1	SHOULD		1098-30459	
repeatNumber	0..1	MAY		1098-32063	
quantity	0..1	MAY		1098-32064	
product	0..1	MAY		1098-32049	
manufacturedProduct	1..1	SHALL		1098-32050	Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09)
product	0..1	MAY		1098-32051	
manufacturedProduct	1..1	SHALL		1098-32052	Immunization Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09)
product	0..1	SHOULD		1098-32325	
performer	0..*	MAY		1098-32048	
author	0..1	SHOULD		1098-31129	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	0..1	MAY		1098-	

				32094	
participantRole	1..1	SHALL		1098-32095	Product Instance (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.37)
entryRelationship	0..*	MAY		1098-31110	
@typeCode	1..1	SHALL		1098-31111	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-31112	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143)
entryRelationship	0..*	MAY		1098-32054	
@typeCode	1..1	SHALL		1098-32055	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1098-32056	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09)
entryRelationship	0..*	MAY		1098-32057	
@typeCode	1..1	SHALL		1098-32058	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
act	1..1	SHALL		1098-32059	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09)
entryRelationship	0..*	MAY		1098-32060	
@typeCode	1..1	SHALL		1098-32061	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
act	1..1	SHALL		1098-32062	Planned Coverage (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.129)

1. **SHALL** contain exactly one [1..1] **@classCode**="SPLY" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8577).
2. **SHALL** contain exactly one [1..1] **@moodCode**, which **SHALL** be selected from ValueSet [Planned moodCode \(SubstanceAdministration/Supply\)](#) urn:oid:2.16.840.1.113883.11.20.9.24 **STATIC** 2011-09-30 (CONF:1098-8578).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-30463) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.43" (CONF:1098-30464).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32556).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-8580).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-30458).

- a. This statusCode **SHALL** contain exactly one [1..1] @code="active" Active (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-32047).

The effectiveTime in a planned supply represents the time that the supply should occur.

6. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-30459).

In a Planned Supply, repeatNumber indicates the number of times the supply event can occur. For example, if a medication is filled at a pharmacy and the prescription may be refilled 3 more times, the supply RepeatNumber equals 4.

7. **MAY** contain zero or one [0..1] **repeatNumber** (CONF:1098-32063).
8. **MAY** contain zero or one [0..1] **quantity** (CONF:1098-32064).

This product represents medication that is ordered, requested or intended for the patient.

9. **MAY** contain zero or one [0..1] **product** (CONF:1098-32049) such that it
 - a. **SHALL** contain exactly one [1..1] Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09) (CONF:1098-32050).
 - b. If the product is Medication Information (V2) (2.16.840.1.113883.10.20.22.4.23.2) then the product **SHALL NOT** be Immunization Medication Information (2.16.840.1.113883.10.20.22.4.54.2) and the participant **SHALL NOT** be Product Instance (CONF:1098-32092).

This product represents immunization medication that is ordered, requested or intended for the patient.

10. **MAY** contain zero or one [0..1] **product** (CONF:1098-32051) such that it
 - a. **SHALL** contain exactly one [1..1] Immunization Medication Information (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09) (CONF:1098-32052).
 - b. If the product is Medication Information (V2) (2.16.840.1.113883.10.20.22.4.23.2) then the product **SHALL NOT** be Immunization Medication Information (2.16.840.1.113883.10.20.22.4.54.2) and the participant **SHALL NOT** be Product Instance (CONF:1098-32093).

A product is recommended or even required under certain implementations. This IG makes product as recommended (SHOULD).

11. **SHOULD** contain zero or one [0..1] **product** (CONF:1098-32325).

The clinician who is expected to perform the supply could be identified using supply/performer.

12. **MAY** contain zero or more [0..*] **performer** (CONF:1098-32048).

The author in a supply represents the clinician who is requesting or planning the supply.

13. **SHOULD** contain zero or one [0..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-31129).

This participant represents a device that is ordered, requested or intended for the patient.

14. **MAY** contain zero or one [0..1] **participant** (CONF:1098-32094) such that it

- a. **SHALL** contain exactly one [1..1] [Product Instance](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.37) (CONF:1098-32095).
- b. If the participant is Product Instance then the product **SHALL NOT** be Medication Information (V2) (2.16.840.1.113883.10.20.22.4.23.2) and the product **SHALL NOT** be Immunization Medication Information (V2) (2.16.840.1.113883.10.20.22.4.54.2) (CONF:1098-32096).

The following entryRelationship represents the priority that a patient or a provider places on the supply.

- 15. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31110) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31111).
 - b. **SHALL** contain exactly one [1..1] [Priority Preference](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-31112).

The following entryRelationship represents the indication for the supply.

- 16. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32054) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32055).
 - b. **SHALL** contain exactly one [1..1] [Indication \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-32056).

The following entryRelationship captures any instructions associated with the planned supply.

- 17. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32057) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="SUBJ" Has Subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32058).
 - b. **SHALL** contain exactly one [1..1] [Instruction \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-32059).

The following entryRelationship represents the insurance coverage the patient may have for the supply.

- 18. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32060) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32061).
 - b. **SHALL** contain exactly one [1..1] [Planned Coverage](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.129) (CONF:1098-32062).

Figure 98: Planned Supply (V2) Example

```
<supply moodCode="INT" classCode="SPLY">
  <templateId root="2.16.840.1.113883.10.20.22.4.43" extension="2014-06-09" />
  <!-- Planned Supply (V2) -->
  <id root="9a6d1bac-17d3-4195-89c4-1121bc809b5d" />
  <statusCode code="active" />
  <!-- The effectiveTime in a planned supply represents
the time that the supply should occur. -->
  <effectiveTime value="20130615" />
  <repeatNumber value="1" />
  <quantity value="3" />
  <!-- This product represents medication that is ordered,
requested or intended for the patient. -->
  <product>
    <manufacturedProduct classCode="MANU">
      <!-- Medication Information (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.23" extension="2014-06-09" />
      <id root="2a620155-9d11-439e-92b3-5d9815ff4ee8" />
      <manufacturedMaterial>
        <code code="573621" codeSystem="2.16.840.1.113883.6.88"
displayName="Proventil 0.09 MG/ACTUAT inhalant solution">
          <originalText>
            <reference value="#MedSec_1" />
          </originalText>
          <translation code="573621" displayName="Proventil 0.09 MG/ACTUAT
inhalant solution" codeSystem="2.16.840.1.113883.6.88" codeSystemName="RxNorm" />
        </code>
      </manufacturedMaterial>
      <manufacturerOrganization>
        <name>Medication Factory Inc.</name>
      </manufacturerOrganization>
    </manufacturedProduct>
  </product>
  <!-- The clinician who is expected to perform the supply
could be identified using supply/performer. -->
  <performer>
    ...

  </performer>
  <!-- The author in a supply represents the clinician
who is requesting or planning the supply. -->
  <author typeCode="AUT">
    ...

  </author>
  <entryRelationship typeCode="REFR">
    <!-- Patient Priority Preference -->
    ...

  </entryRelationship>
  <entryRelationship typeCode="REFR">
    <!-- Provider Priority Preference -->
    ...

  </entryRelationship>
  <entryRelationship typeCode="RSON">
```

```

        <!-- Indication (V2) -->
        ...

    </entryRelationship>
    <entryRelationship typeCode="SUBJ">
        <!-- Instruction (V2) -->
        ...

    </entryRelationship>
    <entryRelationship typeCode="COMP">
        <!-- Planned Coverage -->
        ...

    </entryRelationship>
</supply>

```

4.42.1 Device Order (V2)

```
[supply: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.9:2014-12-01
(open)]
```

Table 214: Device Order (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Device, Order.

This datatype represents an order for equipment designed to treat, monitor, or diagnose a patient's condition.

The moodCode is constrained to “RQO”, an author is required to represent the ordering clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.

Table 215: Device Order (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
supply (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.9:2014-12-01)					
@classCode	1..1	SHALL		1140-27723	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SPLY
@moodCode	1..1	SHALL		1140-12343	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
templateId	1..1	SHALL		1140-12344	
@root	1..1	SHALL		1140-12345	2.16.840.1.113883.10.20.24.3.9
@extension	1..1	SHALL		1140-27091	2014-12-01
author	1..1	SHALL		1140-27721	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	1..1	SHALL		1140-12349	
@typeCode	1..1	SHALL		1140-12350	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = DEV
participantRole	1..1	SHALL		1140-12351	
@classCode	1..1	SHALL		1140-12352	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingDevice	1..1	SHALL		1140-12353	
@classCode	1..1	SHALL		1140-12354	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = DEV
code	1..1	SHALL		1140-12355	
@sdtc:valueSet	1..1	SHALL		1140-27586	
entryRelationship	0..1	MAY		1140-12356	
@typeCode	1..1	SHALL		1140-12359	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-12360	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-12357	
@typeCode	1..1	SHALL		1140-12361	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-	Patient Preference (V2) (identifier:

				27195	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
entryRelationship	0..1	MAY		1140-12358	
@nullFlavor	1..1	SHALL		1140-12363	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27196	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01

1. Conforms to [Planned Supply \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09).
 2. **SHALL** contain exactly one [1..1] **@classCode**="SPLY" Supply (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27723).
 3. **SHALL** contain exactly one [1..1] **@moodCode**="RQO" Request, which **SHALL** be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12343).
 4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12344) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.9" (CONF:1140-12345).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27091).
- author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed.
5. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27721).
 6. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-12349) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="DEV" device, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12350).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-12351).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="MANU" manufactured product, which **SHALL** be selected from CodeSystem RoleClass (urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12352).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **playingDevice** (CONF:1140-12353).
 1. This playingDevice **SHALL** contain exactly one [1..1] **@classCode**="DEV" device, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12354).
 2. This playingDevice **SHALL** contain exactly one [1..1] **code** (CONF:1140-12355).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27586).
 7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12356) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12359).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-12360).
- 8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12357) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12361).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27195).
- 9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12358) such that it
 - a. **SHALL** contain exactly one [1..1] @nullFlavor="RSON" has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12363).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27196).

Figure 99: Device Order (V2) Example

```
<supply classCode="SPLY" moodCode="RQO">
  <!-- Conforms to C-CDA R2 Planned Supply (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.43" extension="2014-06-09" />
  <!-- Device Order (V2) TemplateId -->
  <templateId root="2.16.840.1.113883.10.20.24.3.9" extension="2014-12-01" />
  <id root="6a8d037d-fl44-4071-9d1f-8a92a11dedc6" />
  <statusCode code="active" />
  <effectiveTime xsi:type="IVL_TS">
    <low value="20141014" />
    <high value="20141014" />
  </effectiveTime>
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201410101030" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201410101034" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="11111111" />
    </assignedAuthor>
  </author>
  <participant typeCode="DEV">
    <participantRole classCode="MANU">
      <playingDevice classCode="DEV">
        <!-- Device -->
        <code code="401608003" codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED-CT"
          displayName="Suprapubic catheter (physical object)"
          sdct:valueSet="{QDMElementValueSetOID}" />
      </playingDevice>
    </participantRole>
  </participant>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</supply>
```

```
</entryRelationship>
</supply>
```

4.42.2 Device Recommended (V2)

```
[supply: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.10:2014-12-01
(open) ]
```

Table 216: Device Recommended (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Author Participation Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Device, Recommended.

This datatype represents a recommendation for equipment designed to treat, monitor, or diagnose a patient's condition.

The moodCode is constrained to “INT”, an author is required to represent the recommending clinician and an author time/date stamp is required.

QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.

Table 217: Device Recommended (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
supply (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.10:2014-12-01)					
@classCode	1..1	SHALL		1140-27722	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SPLY
@moodCode	1..1	SHALL		1140-12368	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = INT
templateId	1..1	SHALL		1140-12369	
@root	1..1	SHALL		1140-12370	2.16.840.1.113883.10.20.24.3.10
@extension	1..1	SHALL		1140-27094	2014-12-01
author	1..1	SHALL		1140-27719	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	1..1	SHALL		1140-12374	
@typeCode	1..1	SHALL		1140-12375	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = DEV
participantRole	1..1	SHALL		1140-12376	
@classCode	1..1	SHALL		1140-12377	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingDevice	1..1	SHALL		1140-12378	
@classCode	1..1	SHALL		1140-12379	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = DEV
code	1..1	SHALL		1140-12380	
@sdtc:valueSet	1..1	SHALL		1140-27587	
entryRelationship	0..1	MAY		1140-12381	
@typeCode	1..1	SHALL		1140-12382	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27093	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-12384	
@typeCode	1..1	SHALL		1140-12385	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-	Patient Preference (V2) (identifier:

				27193	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
entryRelationship	0..1	MAY		1140-12387	
@nullFlavor	1..1	SHALL		1140-12388	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27194	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01

1. Conforms to [Planned Supply \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09).
 2. **SHALL** contain exactly one [1..1] **@classCode="SPLY"** Supply (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27722).
 3. **SHALL** contain exactly one [1..1] **@moodCode="INT"** Intent, which **SHALL** be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12368).
 4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12369) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.10"** (CONF:1140-12370).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27094).
- author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed.
5. **SHALL** contain exactly one [1..1] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1140-27719).
 6. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-12374) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="DEV"** device, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12375).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-12376).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode="MANU"** manufactured product, which **SHALL** be selected from CodeSystem RoleClass (urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12377).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **playingDevice** (CONF:1140-12378).
 1. This playingDevice **SHALL** contain exactly one [1..1] **@classCode="DEV"** device, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12379).
 2. This playingDevice **SHALL** contain exactly one [1..1] **code** (CONF:1140-12380).
 - a. This code **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27587).
 7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12381) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12382).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27093).
- 8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12384) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12385).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27193).
- 9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12387) such that it
 - a. **SHALL** contain exactly one [1..1] @nullFlavor="RSON" has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12388).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27194).

Figure 100: Device Recommended (V2) Example

```
<supply classCode="SPLY" moodCode="INT">
  <!-- C-CDA R2 : Planned Supply (V2) templateId -->
  <templateId root="2.16.840.1.113883.10.20.22.4.43" extension="2014-06-09" />
  <!-- Device Recommended (V2) TemplateId -->
  <templateId root="2.16.840.1.113883.10.20.24.3.10" extension="2014-12-01" />
  <id root="6a8d037d-fl44-4071-9d1f-8a92a11dedc6" />
  <statusCode code="active" />
  <effectiveTime xsi:type="IVL_TS">
    <low value="20141014" />
    <high value="20141014" />
  </effectiveTime>
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201410101030" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201410101034" />
    </time>
    <assignedAuthor>
      <id root="2.16.840.1.113883.4.6" extension="11111111" />
    </assignedAuthor>
  </author>
  <participant typeCode="DEV">
    <participantRole classCode="MANU">
      <playingDevice classCode="DEV">
        <!-- Device -->
        <code code="401608003" codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED-CT"
          displayName="Suprapubic catheter (physical object)"
          sdct:valueSet="{QDMElementValueSetOID}" />
      </playingDevice>
    </participantRole>
  </participant>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</supply>
```

```

    </entryRelationship>
  </supply>

```

4.42.3 Medication Supply Request (V2)

```

[supply: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.99:2015-04-05
(open) ]

```

Table 218: Medication Supply Request (V2) Contexts

Contained By:	Contains:
Medication Order (V2) (optional)	

This template represents a request to a pharmacy to supply a medication. An effectiveTime is required.

Table 219: Medication Supply Request (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
supply (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.99:2015-04-05)					
@classCode	1..1	SHALL		1140-28373	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = SPLY
@moodCode	1..1	SHALL		1140-13820	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = RQO
templateId	1..1	SHALL		1140-13821	
@root	1..1	SHALL		1140-13822	2.16.840.1.113883.10.20.24.3.99
@extension	1..1	SHALL		1140-28374	2014-12-09
effectiveTime	1..1	SHALL	IVL_TS	1140-13829	
independentInd	0..1	MAY		1140-13831	

1. Conforms to [Planned Supply \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09).
2. **SHALL** contain exactly one [1..1] @classCode="SPLY" Supply (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28373).
3. **SHALL** contain exactly one [1..1] @moodCode="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13820).
4. **SHALL** contain exactly one [1..1] templateId (CONF:1140-13821) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.99" (CONF:1140-13822).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-09" (CONF:1140-28374).

5. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-13829).
6. **MAY** contain zero or one [0..1] **independentInd** (CONF:1140-13831).

Figure 101: Medication Supply Request (V2)

```
<supply classCode="SPLY" moodCode="RQO">
  <!-- Medication Supply Request (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.99"
    extension="2014-12-01"/>
  <!-- Conforms to C-CDA R2 Planned Supply (V2) template-->
  <templateId root="2.16.840.1.113883.10.20.22.4.43"
    extension="2014-06-09" />
  <id root="50ed595a-dfb6-49f0-8b19-1901b5d01c1a"/>
  <statusCode code="active"/>
  <effectiveTime xsi:type="IVL_TS">
    <!-- Attribute: start datetime -->
    <low value="20120329140000+0500"/>
    <!-- Attribute: stop datetime -->
    <high value="20120429140000+0500"/>
  </effectiveTime>
  <!-- Attribute: refills -->
  <repeatNumber value="4"/>
  <!-- Signals that the Supply cannot stand alone,
    without its containing Substance Administration -->
  <independentInd value="false"/>
  <!-- Attribute: number -->
  <quantity value="150"/>
  <product>
    <manufacturedProduct classCode="MANU">
      <!-- Conforms to C-CDA R2 Medication Information (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.22.4.23"
        extension="2014-06-09" />
      <id root="37bfe02a-3e97-4bd6-9197-bbd0ed0de79e" />
      <manufacturedMaterial>
        <code code="329498"
          codeSystem="2.16.840.1.113883.6.88"
          displayName="Albuterol 0.09 MG/ACTUAT inhalant solution"
          sdtc:valueSet="{ $QDMElementValueSetOID }"/>
      </manufacturedMaterial>
      <manufacturerOrganization>
        <name>Medication Factory Inc.</name>
      </manufacturerOrganization>
    </manufacturedProduct>
  </product>
</supply>
```

4.43 Precondition for Substance Administration (V2)

[criterion: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.25:2014-06-09 (open)]

Table 220: Precondition for Substance Administration (V2) Contexts

Contained By:	Contains:
Medication Activity (V2) (optional) Planned Medication Activity (V2) (optional)	

A criterion for administration can be used to record that the medication is to be administered only when the associated criteria are met.

Table 221: Precondition for Substance Administration (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
criterion (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.25:2014-06-09)					
templateId	1..1	SHALL		1098-7372	
@root	1..1	SHALL		1098-10517	2.16.840.1.113883.10.20.22.4.25
@extension	1..1	SHALL		1098-32603	2014-06-09
code	1..1	SHALL	CD	1098-32396	
@code	1..1	SHALL		1098-32397	ASSERTION
@codeSystem	1..1	SHALL		1098-32398	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
value	1..1	SHALL	CD	1098-7369	urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 (Problem)

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7372) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.25" (CONF:1098-10517).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32603).
2. **SHALL** contain exactly one [1..1] **code** with **@xsi:type**="CD" (CONF:1098-32396).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="ASSERTION" Assertion (CONF:1098-32397).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1098-32398).
3. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD", where the code **SHALL** be selected from ValueSet [Problem](#) urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 **DYNAMIC** (CONF:1098-7369).

Figure 102: Precondition for Substance Administration (V2) Example

```
<criterion>
  <templateId root="2.16.840.1.113883.10.20.22.4.25"
    extension="2014-06-09" />
  <code code="ASSERTION"
    codeSystem="2.16.840.1.113883.5.4" />
  <value xsi:type="CD"
    code="56018004"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Wheezing" />
</criterion>
```

4.44 Priority Preference

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.143 (open)]

Table 222: Priority Preference Contexts

Contained By:	Contains:
Problem Observation (V2) (optional) Problem Concern Act (V2) (optional) Goal Observation (optional) Planned Act (V2) (optional) Planned Encounter (V2) (optional) Planned Procedure (V2) (optional) Planned Observation (V2) (optional) Planned Supply (V2) (optional) Planned Medication Activity (V2) (optional)	Author Participation

This template represents priority preferences chosen by a patient or a care provider. Priority preferences are choices made by care providers or patients or both relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals), the sharing and disclosure of health information, and the prioritization of concerns and problems.

Table 223: Priority Preference Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143)					
@classCode	1..1	SHALL		1098-30949	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-30950	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-30951	
@root	1..1	SHALL		1098-30952	2.16.840.1.113883.10.20.22.4.143
id	1..*	SHALL		1098-30953	
code	1..1	SHALL		1098-30954	
@code	1..1	SHALL		1098-30955	225773000
@codeSystem	1..1	SHALL		1098-30956	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
effectiveTime	0..1	SHOULD		1098-32327	
value	1..1	SHALL	CD	1098-30957	urn:oid:2.16.840.1.113883.11.20.9.60 (Priority Level)
author	0..*	SHOULD		1098-30958	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-30949).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-30950).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-30951) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.143" (CONF:1098-30952).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-30953).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-30954).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="225773000" Preference (CONF:1098-30955).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1098-30956).
6. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-32327).

7. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD", where the code **SHALL** be selected from ValueSet [Priority Level](#) urn:oid:2.16.840.1.113883.11.20.9.60 **STATIC** 2014-06-11 (CONF:1098-30957).
8. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-30958).

Table 224: Priority Level

Value Set: Priority Level urn:oid:2.16.840.1.113883.11.20.9.60 A value set of SNOMED-CT that contains concepts representing priority. Value Set Source: https://vsac.nlm.nih.gov			
Code	Code System	Code System OID	Print Name
394849002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	High priority
394848005	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Normal priority
441808003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Delayed priority

Figure 103: Priority Preference Example

```

<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.143" />
  <id root="7d66f448-ba82-4291-a9da-9e5db5e58803" />
  <code code="225773000"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="preference" />
  <value xsi:type="CD"
    code="394849002"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED"
    displayName="High priority" />
  <!--
    Author Participation Template
    In this case, the author is the same as a participant already described in the
    header.
    However, the author could be a the record target (patient), a different provider -
    someone else in the header, or a new provider not elsewhere specified.
  -->
  <author>
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time value="20130801" />
    <assignedAuthor>
      <!-- This id points back to a participant in the header -->
      <id root="20cf14fb-b65c-4c8c-a54d-b0cca834c18c" />
    </assignedAuthor>
  </author>
</observation>

```

4.45 Problem Concern Act (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09 (open)]

Table 225: Problem Concern Act (V2) Contexts

Contained By:	Contains:
	Author Participation Priority Preference Problem Observation (V2)

This template reflects an ongoing concern on behalf of the provider that placed the concern on a patient's problem list. So long as the underlying condition is of concern to the provider (i.e., as long as the condition, whether active or resolved, is of ongoing concern and interest to the provider), the statusCode is "active". Only when the underlying condition is no longer of concern is the statusCode set to "completed". The effectiveTime reflects the time that the underlying condition was felt to be a concern; it may or may not correspond to the effectiveTime of the condition (e.g., even five years later, the clinician may remain concerned about a prior heart attack).

The statusCode of the Problem Concern Act is the definitive indication of the status of the concern, whereas the effectiveTime of the nested Problem Observation is the definitive indication of whether or not the underlying condition is resolved.

The effectiveTime/low of the Problem Concern Act asserts when the concern became active. This equates to the time the concern was authored in the patient's chart. The effectiveTime/high asserts when the concern was completed (e.g., when the clinician deemed there is no longer any need to track the underlying condition).

A Problem Concern Act can contain many Problem Observations (templateId 2.16.840.1.113883.10.20.22.4.4.2). Each Problem Observation is a discrete observation of a condition, and therefore will have a statusCode of "completed". The many Problem Observations nested under a Problem Concern Act reflect the change in the clinical understanding of a condition over time. For instance, a Concern may initially contain a Problem Observation of "chest pain":

- Problem Concern 1
 - Problem Observation: Chest Pain

Later, a new Problem Observation of "esophagitis" will be added, reflecting a better understanding of the nature of the chest pain. The later problem observation will have a more recent author time stamp.

- Problem Concern 1
 - Problem Observation (author/time Jan 3, 2012): Chest Pain
 - Problem Observation (author/time Jan 6, 2012): Esophagitis

Many systems display the nested Problem Observation with the most recent author time stamp, and provide a mechanism for viewing prior observations.

Table 226: Problem Concern Act (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09)					
@classCode	1..1	SHALL		1098-9024	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-9025	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-16772	
@root	1..1	SHALL		1098-16773	2.16.840.1.113883.10.20.22.4.3
@extension	1..1	SHALL		1098-32509	2014-06-09
id	1..*	SHALL		1098-9026	
code	1..1	SHALL		1098-9027	
@code	1..1	SHALL		1098-19184	CONC
@codeSystem	1..1	SHALL		1098-32168	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = 2.16.840.1.113883.5.6
statusCode	1..1	SHALL		1098-9029	
@code	1..1	SHALL		1098-31525	urn:oid:2.16.840.1.113883.11.20.9.19 (ProblemAct statusCode)
effectiveTime	1..1	SHALL		1098-9030	
low	1..1	SHALL		1098-9032	
high	0..1	MAY		1098-9033	
author	0..*	SHOULD		1098-31146	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	1..*	SHALL		1098-9034	
@typeCode	1..1	SHALL		1098-9035	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1098-15980	Problem Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)
entryRelationship	0..*	MAY		1098-31638	

@typeCode	1..1	SHALL		1098-31639	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-31640	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143

1. **SHALL** contain exactly one [1..1] @classCode="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-9024).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-9025).
3. **SHALL** contain exactly one [1..1] templateId (CONF:1098-16772) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.3" (CONF:1098-16773).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-06-09" (CONF:1098-32509).
4. **SHALL** contain at least one [1..*] id (CONF:1098-9026).
5. **SHALL** contain exactly one [1..1] code (CONF:1098-9027).
 - a. This code **SHALL** contain exactly one [1..1] @code="CONC" Concern (CONF:1098-19184).
 - b. This code **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.113883.5.6" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-32168).
6. **SHALL** contain exactly one [1..1] statusCode (CONF:1098-9029).

The statusCode of the Problem Concern Act is the definitive indication of the status of the concern, whereas the effectiveTime of the nested Problem Observation is the definitive indication of whether or not the underlying condition is resolved.

- a. This statusCode **SHALL** contain exactly one [1..1] @code, which **SHALL** be selected from ValueSet [ProblemAct statusCode](#) urn:oid:2.16.840.1.113883.11.20.9.19 **STATIC** 2011-09-10 (CONF:1098-31525).
7. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1098-9030).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1098-9032).
Note: The effectiveTime/low asserts when the concern became active. This equates to the time the concern was authored in the patient's chart.
 - b. This effectiveTime **MAY** contain zero or one [0..1] high (CONF:1098-9033).
Note: The effectiveTime/high asserts when the concern was completed (e.g., when the clinician deemed there is no longer any need to track the underlying condition).
8. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-31146).
9. **SHALL** contain at least one [1..*] entryRelationship (CONF:1098-9034) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="SUBJ" Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-9035).

- b. **SHALL** contain exactly one [1..1] [Problem Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09) (CONF:1098-15980).

The following entryRelationship represents the importance of the concern to a provider.

10. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31638) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31639).
- b. **SHALL** contain exactly one [1..1] [Priority Preference](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-31640).

Table 227: ProblemAct statusCode

Value Set: ProblemAct statusCode urn:oid:2.16.840.1.113883.11.20.9.19 A ValueSet of HL7 actStatus codes for use on the concern act Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
completed	ActStatus	urn:oid:2.16.840.1.113883.5.14	Completed
aborted	ActStatus	urn:oid:2.16.840.1.113883.5.14	Aborted
active	ActStatus	urn:oid:2.16.840.1.113883.5.14	Active
suspended	ActStatus	urn:oid:2.16.840.1.113883.5.14	Suspended

Figure 104: Problem Concern Act (V2) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- ** Problem Concern Act (V2) ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.3"
    extension="2014-06-09" />
  <id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
  <code code="CONC" codeSystem="2.16.840.1.113883.5.6" displayName="Concern" />
  <!-- The statusCode represents the need to continue tracking the problem -->
  <!-- This is of ongoing concern to the provider -->
  <statusCode code="active" />
  <effectiveTime>
    <!-- The low value represents when the problem was first recorded in the patient's
chart -->
    <!-- Concern was documented on July 6, 2013 -->
    <low value="201307061145-0800" />
  </effectiveTime>
  <author typeCode="AUT">
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <!-- Same as Concern effectiveTime/low -->
    <time value="201307061145-0800" />
    <assignedAuthor>
      <id extension="555555555" root="2.16.840.1.113883.4.6" />
      <code code="207QA0505X" displayName="Adult Medicine"
codeSystem="2.16.840.1.113883.6.101"
      codeSystemName="Healthcare Provider Taxonomy (HIPAA)" />
    </assignedAuthor>
  </author>
  <entryRelationship typeCode="SUBJ">
    <observation classCode="OBS" moodCode="EVN">
      <!-- ** Problem Observation (V2) ** -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
      <id root="ab1791b0-5c71-11db-b0de-0800200c9a66" />
      <code code="75323-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="Condition" />
      <!-- The statusCode reflects the status of the observation itself -->
      <statusCode code="completed" />
      <effectiveTime>
        <!-- The low value reflects the date of onset -->
        <!-- Based on patient symptoms, presumed onset is July 3, 2013 -->
        <low value="20130703" />
        <!-- The high value reflects when the problem was known to be resolved -->
        <!-- Based on signs and symptoms, appears to be resolved on Aug 14, 2013 -->
        <high value="20080814" />
      </effectiveTime>
      <value xsi:type="CD"
        code="233604007"
        codeSystem="2.16.840.1.113883.6.96"
        displayName="Pneumonia" />
      <author typeCode="AUT">
        <templateId root="2.16.840.1.113883.10.20.22.4.119" />
        <time value="200808141030-0800" />
        <assignedAuthor>
          <id extension="555555555" root="2.16.840.1.113883.4.6" />
          <code code="207QA0505X"
            displayName="Adult Medicine"
            codeSystem="2.16.840.1.113883.6.101"
          />
        </assignedAuthor>
      </author>
    </observation>
  </entryRelationship>
</act>
```

```

        codeSystemName="Healthcare Provider Taxonomy (HIPAA) " />
    </assignedAuthor>
</author>
</observation>
</entryRelationship>
</act>

```

4.45.1 Diagnosis Active Concern Act

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.121:2014-12-01
(open)]

Table 228: Diagnosis Active Concern Act Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Diagnosis Active (V2)

This template, along with its contained template Diagnosis Active, represents the QDM datatype: Diagnosis, Active.

An active diagnosis is a problem, diagnosis or condition that is currently monitored or tracked or is a factor that must be considered as part of the treatment plan in progress. The statusCode is constrained to "active" and effectiveTime/low is required.

QDM Attribute: Start Datetime is represented by effectiveTime/low and should be equivalent to author/time/low in the contained Diagnosis Active template.

Table 229: Diagnosis Active Concern Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.121:2014-12-01)					
@classCode	1..1	SHALL		1140-28148	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-28149	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-28143	
@root	1..1	SHALL		1140-28146	2.16.840.1.113883.10.20.24.3.121
@extension	1..1	SHALL		1140-28147	2014-12-01
statusCode	1..1	SHALL		1140-28144	
@code	1..1	SHALL		1140-28150	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	1..1	SHALL		1140-28210	
low	1..1	SHALL		1140-28211	
entryRelationship	1..1	SHALL		1140-28142	
@typeCode	1..1	SHALL		1140-28151	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1140-28145	Diagnosis Active (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.11:2014-12-01)

1. Conforms to [Problem Concern Act \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28148).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28149).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-28143) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.121" (CONF:1140-28146).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-28147).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-28144).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="active" Active (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-28150).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-28210).

- a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-28211).
7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-28142) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28151).
 - b. **SHALL** contain exactly one [1..1] **Diagnosis Active (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.11:2014-12-01) (CONF:1140-28145).

Figure 105: Diagnosis Active Concern Act Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Conforms to C-CDA Problem Concern Act (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2014-06-09" />
  <!-- Diagnosis Active Concern Act -->
  <templateId root="2.16.840.1.113883.10.20.24.3.121" extension="2014-12-01" />
  <id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
  <code code="CONC" codeSystem="2.16.840.1.113883.5.6" displayName="Concern" />
  <!-- The statusCode represents whether this is an active (active),
        inactive (suspended) or resolved (completed) diagnosis -->
  <statusCode code="active" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime
          (equivalent to author/time/low in the contained observation) -->
    <low value="201204081130" />
  </effectiveTime>
  <entryRelationship typeCode="SUBJ">
    <!--Diagnosis active-->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA Problem Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4"
        extension="2014-06-09" />
      <!-- Diagnosis Active (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.11"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```

4.45.2 Diagnosis Inactive Concern Act

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.123:2014-12-01
(open)]

Table 230: Diagnosis Inactive Concern Act Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Diagnosis Inactive (V2)

This template, along with its contained template Diagnosis Inactive, represents the QDM datatype: Diagnosis, Inactive.

An inactive diagnosis is a diagnosis that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future (e.g., a cancer diagnosis in remission). The statusCode is constrained to "suspended" and both effectiveTime/low and effectiveTime/high are required.

QDM Attribute: Start Datetime is represented by effectiveTime/low and should be equivalent to author/time/low in the contained Diagnosis Inactive template. QDM Attribute: Stop Datetime is represented by effectiveTime/high and should be equivalent to author/time/high in the contained Diagnosis Inactive template.

Table 231: Diagnosis Inactive Concern Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.123:2014-12-01)					
@classCode	1..1	SHALL		1140-28172	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-28173	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-28165	
@root	1..1	SHALL		1140-28169	2.16.840.1.113883.10.20.24.3.123
@extension	1..1	SHALL		1140-28170	2014-12-01
statusCode	1..1	SHALL		1140-28166	
@code	1..1	SHALL		1140-28171	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = suspended
effectiveTime	1..1	SHALL		1140-28198	
low	1..1	SHALL		1140-28199	
high	1..1	SHALL		1140-28200	
entryRelationship	1..1	SHALL		1140-28164	
@typeCode	1..1	SHALL		1140-28168	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1140-28167	Diagnosis Inactive (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.13:2014-12-01)

1. Conforms to [Problem Concern Act \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09).

2. **SHALL** contain exactly one [1..1] **@classCode="ACT"** Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28172).
3. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28173).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-28165) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.123"** (CONF:1140-28169).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-28170).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-28166).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code="suspended"** Suspended (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-28171).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-28198).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-28199).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] **high** (CONF:1140-28200).
7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-28164) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28168).
 - b. **SHALL** contain exactly one [1..1] [Diagnosis Inactive \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.13:2014-12-01) (CONF:1140-28167).

Figure 106: Diagnosis Inactive Concern Act Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Confirms to C-CDA Problem Concern Act (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2014-06-09" />
  <!-- Diagnosis Inactive Concern Act -->
  <templateId root="2.16.840.1.113883.10.20.24.3.123" extension="2014-12-01" />
  <id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
  <code code="CONC" codeSystem="2.16.840.1.113883.5.6" displayName="Concern" />
  <!-- The statusCode represents whether this is an active (active),
        inactive (suspended) or resolved (completed) diagnosis -->
  <statusCode code="suspended" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime
          (equivalent to author/time/low in the contained observation) -->
    <low value="201204081130" />
    <!-- QDM Attribute: Stop Datetime
          (equivalent to author/time/high in the contained observation)-->
    <high value="201204081135" />
  </effectiveTime>
  <entryRelationship typeCode="SUBJ">
    <!--Diagnosis inactive-->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Confirms to C-CDA Problem Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4"
        extension="2014-06-09" />
      <!-- Diagnosis Inactive (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.13"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```

4.45.3 Diagnosis Resolved Concern Act

```
[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.125:2014-12-01
(open)]
```

Table 232: Diagnosis Resolved Concern Act Contexts

Contained By:	Contains:
Patient Data Section QDM [V2] (optional)	Diagnosis Resolved [V2]

This template, along with its contained template Diagnosis Resolved, represents the QDM datatype: Diagnosis, Resolved.

A resolved diagnosis is a diagnosis that no longer requires treatment and, by its nature is unlikely to recur. The statusCode is constrained to "completed" and both effectiveTime/low and effectiveTime/high are required.

QDM Attribute: Start Datetime is represented by effectiveTime/low and should be equivalent to author/time/low in the contained Diagnosis Resolved template. QDM Attribute: Stop Datetime is represented by effectiveTime/high and should be equivalent to author/time/high in the contained Diagnosis Resolved template.

Table 233: Diagnosis Resolved Concern Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.125:2014-12-01)					
@classCode	1..1	SHALL		1140-28182	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-28183	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-28175	
@root	1..1	SHALL		1140-28179	2.16.840.1.113883.10.20.24.3.125
@extension	1..1	SHALL		1140-28180	2014-12-01
statusCode	1..1	SHALL		1140-28176	
@code	1..1	SHALL		1140-28181	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-28201	
low	1..1	SHALL		1140-28202	
high	1..1	SHALL		1140-28203	
entryRelationship	1..1	SHALL		1140-28174	
@typeCode	1..1	SHALL		1140-28178	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1140-28177	Diagnosis Resolved (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.14:2014-12-01)

1. Conforms to [Problem Concern Act \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28182).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28183).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-28175) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.125" (CONF:1140-28179).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-28180).
- 5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-28176).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-28181).
- 6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-28201).
 - a. This **effectiveTime** **SHALL** contain exactly one [1..1] **low** (CONF:1140-28202).
 - b. This **effectiveTime** **SHALL** contain exactly one [1..1] **high** (CONF:1140-28203).
- 7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-28174) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28178).
 - b. **SHALL** contain exactly one [1..1] Diagnosis Resolved (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.14:2014-12-01) (CONF:1140-28177).

Figure 107: Diagnosis Resolved Concern Act Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Conforms to C-CDA Problem Concern Act (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.3"
    extension="2014-06-09" />
  <!-- Diagnosis Resolved Concern Act -->
  <templateId root="2.16.840.1.113883.10.20.24.3.125"
    extension="2014-12-01" />
  <id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
  <code code="CONC" codeSystem="2.16.840.1.113883.5.6"
    displayName="Concern" />
  <!-- The statusCode represents whether this is an active (active),
        inactive (suspended) or resolved (completed) diagnosis -->
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime
          (equivalent to author/time/low in the contained observation) -->
    <low value="201204081130" />
    <!-- QDM Attribute: Stop Datetime
          (equivalent to author/time/high in the contained observation) -->
    <high value="201204081135" />
  </effectiveTime>
  <entryRelationship typeCode="SUBJ">
    <!--Diagnosis resolved-->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA Problem Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4"
        extension="2014-06-09" />
      <!-- Diagnosis Resolved (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.14"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```

4.45.4 Symptom Active Concern Act

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.120:2014-12-01
(open)]

Table 234: Symptom Active Concern Act Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Symptom Active (V2)

This template, along with its contained template Symptom Active, represents the QDM datatype: Symptom, Active.

An active symptom is a patient's reported perception of departure from normal functioning that is present at the time indicated. The statusCode is constrained to "active" and effectiveTime/low is required.

QDM Attribute: Start Datetime is represented by effectiveTime/low and should be equivalent to author/time/low in the contained Symptom Active template. QDM Attribute: Stop Datetime is represented by effectiveTime/high and should be equivalent to author/time/high in the contained Symptom Active template.

Table 235: Symptom Active Concern Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.120:2014-12-01)					
@classCode	1..1	SHALL		1140-28120	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-28121	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-28119	
@root	1..1	SHALL		1140-28122	2.16.840.1.113883.10.20.24.3.120
@extension	1..1	SHALL		1140-28123	2014-12-01
statusCode	1..1	SHALL		1140-28124	
@code	1..1	SHALL		1140-28125	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = active
effectiveTime	1..1	SHALL		1140-28212	
low	1..1	SHALL		1140-28213	
entryRelationship	1..1	SHALL		1140-28126	
@typeCode	1..1	SHALL		1140-28127	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1140-28128	Symptom Active (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.76:2014-12-01)

1. Conforms to [Problem Concern Act \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09).
2. **SHALL** contain exactly one [1..1] @classCode="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28120).
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28121).

4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-28119) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.120" (CONF:1140-28122).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-28123).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-28124).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code**="active" Active (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-28125).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-28212).
 - a. This **effectiveTime** **SHALL** contain exactly one [1..1] **low** (CONF:1140-28213).
7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-28126) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28127).
 - b. **SHALL** contain exactly one [1..1] Symptom Active (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.76:2014-12-01) (CONF:1140-28128).

Figure 108: Symptom Active Concern Act Example

```
<entry>
  <act classCode="ACT" moodCode="EVN">
    <!-- Conforms to Problem Concern Act (V2) -->
    <templateId root="2.16.840.1.113883.10.20.22.4.3"
      extension="2014-06-09" />
    <!-- Symptom Active Concern Act -->
    <templateId root="2.16.840.1.113883.10.20.24.3.120"
      extension="2014-12-01" />
    <id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
    <code code="CONC"
      codeSystem="2.16.840.1.113883.5.6"
      displayName="Concern" />
    <!-- The statusCode represents whether this is an active (active),
      inactive (suspended) or resolved (completed) symptom -->
    <statusCode code="active" />
    <effectiveTime>
      <!-- QDM Attribute: Start Datetime (equivalent to author/time/low
        in the contained observation) -->
      <low value="201204081130" />
    </effectiveTime>
    <entryRelationship typeCode="SUBJ">
      <observation classCode="OBS" moodCode="EVN">
        <!-- Conforms to C-CDA R2 Problem Observation (V2) template -->
        <templateId root="2.16.840.1.113883.10.20.22.4.4"
          extension="2014-06-09" />
        <!-- Symptom Active (V2) template -->
        <templateId root="2.16.840.1.113883.10.20.24.3.76"
          extension="2014-12-01" />
        ...
      </observation>
    </entryRelationship>
  </act>
</entry>
```

4.45.5 Symptom Assessed Concern Act

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.127:2014-12-01
(open)]

Table 236: Symptom Assessed Concern Act Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Symptom Assessed (V2)

This template, along with its contained template Symptom Assessed, represents the QDM datatype: Symptom, Assessed.

This datatype represents a patient's reported perception of departure from normal functioning. This is a symptom that has been evaluated. A statusCode and effectiveTime/low are required, effectiveTime/high may be present depending on the status of the symptom.

QDM Attribute: Start Datetime is represented by effectiveTime/low and should be equivalent to author/time/low in the contained Symptom Assessed template. QDM Attribute: Stop Datetime is represented by effectiveTime/high and should be equivalent to author/time/high in the contained Symptom Assessed template.

Table 237: Symptom Assessed Concern Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.127:2014-12-01)					
@classCode	1..1	SHALL		1140-28398	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-28399	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-28392	
@root	1..1	SHALL		1140-28396	2.16.840.1.113883.10.20.24.3.127
@extension	1..1	SHALL		1140-28397	2014-12-01
statusCode	1..1	SHALL		1140-28393	
effectiveTime	1..1	SHALL		1140-28394	
low	1..1	SHALL		1140-28402	
high	0..1	MAY		1140-28403	
entryRelationship	1..1	SHALL		1140-28391	
@typeCode	1..1	SHALL		1140-28401	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1140-28395	Symptom Assessed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.77:2014-12-01)

1. Conforms to [Problem Concern Act \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28398).

3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28399).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-28392) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.127" (CONF:1140-28396).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-28397).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-28393).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-28394).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-28402).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-28403).
7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-28391) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="SUBJ" Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28401).
 - b. **SHALL** contain exactly one [1..1] Symptom Assessed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.77:2014-12-01) (CONF:1140-28395).

Figure 109: Symptom Assessed Concern Act Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Conforms to C-CDA Problem Concern Act (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.3" extension="2014-06-09" />
  <!-- Symptom Assessed Concern Act -->
  <templateId root="2.16.840.1.113883.10.20.24.3.127" extension="2014-12-01" />
  <id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
  <code code="CONC" codeSystem="2.16.840.1.113883.5.6" displayName="Concern" />
  <!-- The statusCode represents whether this is an active (active), inactive (suspended)
or resolved (completed) symptom -->
  <statusCode code="active" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime (equivalent to author/time/low in the contained
observation) -->
    <low value="201204081130" />
  </effectiveTime>
  <entryRelationship typeCode="SUBJ">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Problem Observation (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
      <!-- Symptom Assessed (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.77" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>
```

4.45.6 Symptom Inactive Concern Act

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.122:2014-12-01
(open)]

Table 238: Symptom Inactive Concern Act Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Symptom Inactive (V2)

This template, along with its contained template Symptom Inactive, represents the QDM datatype: Symptom, Inactive.

An inactive symptom is a symptom that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future. The statusCode is constrained to "suspended" and both effectiveTime/low and effectiveTime/high are required.

QDM Attribute: Start Datetime is represented by effectiveTime/low and should be equivalent to author/time/low in the contained Symptom Inactive template. QDM Attribute: Stop Datetime is represented by effectiveTime/high and should be equivalent to author/time/high in the contained Symptom Inactive template.

Table 239: Symptom Inactive Concern Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.122:2014-12-01)					
@classCode	1..1	SHALL		1140-28160	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-28161	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-28155	
@root	1..1	SHALL		1140-28158	2.16.840.1.113883.10.20.24.3.122
@extension	1..1	SHALL		1140-28159	2014-12-01
statusCode	1..1	SHALL		1140-28156	
@code	1..1	SHALL		1140-28162	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = suspended
effectiveTime	1..1	SHALL		1140-28204	
low	1..1	SHALL		1140-28205	
high	1..1	SHALL		1140-28206	
entryRelationship	1..1	SHALL		1140-28154	
@typeCode	1..1	SHALL		1140-28163	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1140-28157	Symptom Inactive (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.78:2014-12-01)

1. Conforms to [Problem Concern Act \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28160).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28161).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-28155) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.122" (CONF:1140-28158).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-28159).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-28156).

- a. This statusCode **SHALL** contain exactly one [1..1] @code="suspended" Suspended (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-28162).
6. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1140-28204).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1140-28205).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] high (CONF:1140-28206).
7. **SHALL** contain exactly one [1..1] entryRelationship (CONF:1140-28154) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="SUBJ" Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28163).
 - b. **SHALL** contain exactly one [1..1] Symptom Inactive (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.78:2014-12-01) (CONF:1140-28157).

Figure 110: Symptom Inactive Concern Act Example

```

<act classCode="ACT" moodCode="EVN">
  <!-- Conforms to C-CDA Problem Concern Act (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.3"
    extension="2014-06-09" />
  <!-- Symptom Inactive Concern Act -->
  <templateId root="2.16.840.1.113883.10.20.24.3.122"
    extension="2014-12-01" />
  <id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
  <code code="CONC" codeSystem="2.16.840.1.113883.5.6"
    displayName="Concern" />
  <!-- The statusCode represents whether this is an active (active),
        inactive (suspended) or resolved (completed) symptom -->
  <statusCode code="suspended" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime
        (equivalent to author/time/low in the contained observation) -->
    <low value="201204081130" />
    <!-- QDM Attribute: Stop Datetime
        (equivalent to author/time/high in the contained observation) -->
    <high value="201204081135" />
  </effectiveTime>
  <entryRelationship typeCode="SUBJ">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Problem Observation (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4"
        extension="2014-06-09" />
      <!-- Symptom Inactive (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.78"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</act>

```

4.45.7 Symptom Resolved Concern Act

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.124:2014-12-01
(open)]

Table 240: Symptom Resolved Concern Act Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Symptom Resolved (V2)

This template, along with its contained template Symptom Resolved, represents the QDM datatype: Symptom, Resolved.

A resolved symptom is a symptom that has been present in the past and is currently not expected to recur. The statusCode is constrained to "completed" and both effectiveTime/low and effectiveTime/high are required.

QDM Attribute: Start Datetime is represented by effectiveTime/low and should be equivalent to author/time/low in the contained Symptom Resolved template. QDM Attribute: Stop Datetime is represented by effectiveTime/high and should be equivalent to author/time/high in the contained Symptom Resolved template.

Table 241: Symptom Resolved Concern Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.124:2014-12-01)					
@classCode	1..1	SHALL		1140-28192	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-28193	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-28185	
@root	1..1	SHALL		1140-28189	2.16.840.1.113883.10.20.24.3.124
@extension	1..1	SHALL		1140-28190	2014-12-01
statusCode	1..1	SHALL		1140-28186	
@code	1..1	SHALL		1140-28191	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-28207	
low	1..1	SHALL		1140-28208	
high	1..1	SHALL		1140-28209	
entryRelationship	1..1	SHALL		1140-28184	
@typeCode	1..1	SHALL		1140-28188	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
observation	1..1	SHALL		1140-28187	Symptom Resolved (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.79:2014-12-01)

1. Conforms to [Problem Concern Act \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28192).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28193).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-28185) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.124" (CONF:1140-28189).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-28190).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-28186).

- a. This statusCode **SHALL** contain exactly one [1..1] @code="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-28191).
6. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1140-28207).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1140-28208).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] high (CONF:1140-28209).
7. **SHALL** contain exactly one [1..1] entryRelationship (CONF:1140-28184) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="SUBJ" Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28188).
 - b. **SHALL** contain exactly one [1..1] Symptom Resolved (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.79:2014-12-01) (CONF:1140-28187).

Figure 111: Symptom Resolved Concern Act Example

```

<act classCode="ACT" moodCode="EVN">
  <!-- Conforms to C-CDA Problem Concern Act (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.3"
    extension="2014-06-09" />
  <!-- Symptom Resolved Concern Act -->
  <templateId root="2.16.840.1.113883.10.20.24.3.124"
    extension="2014-12-01" />
  <id root="ec8a6ff8-ed4b-4f7e-82c3-e98e58b45de7" />
  <code code="CONC" codeSystem="2.16.840.1.113883.5.6"
    displayName="Concern" />
  <!-- The statusCode represents whether this is an active (active),
        inactive (suspended) or resolved (completed) symptom -->
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime
        (equivalent to author/time/low in the contained observation) -->
    <low value="201204081130" />
    <!-- QDM Attribute: Stop Datetime
        (equivalent to author/time/high in the contained observation) -->
    <high value="201204081135" />
  </effectiveTime>
  <entryRelationship typeCode="SUBJ">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Problem Observation (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4"
        extension="2014-06-09" />
      <!-- Symptom Resolved (V2) template -->
      <templateId root="2.16.840.1.113883.10.20.24.3.79"
        extension="2014-12-01" />

      ...

    </observation>
  </entryRelationship>
</act>

```

4.46 Problem Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09
(open)]

Table 242: Problem Observation (V2) Contexts

Contained By:	Contains:
Problem Concern Act (V2) (required) Deceased Observation (V2) (optional) Encounter Diagnosis (V2) (required)	Age Observation Author Participation Priority Preference Problem Status (DEPRECATED) Prognosis Observation

This template reflects a discrete observation about a patient's problem. Because it is a discrete observation, it will have a statusCode of "completed". The effectiveTime, also referred to as the “biologically relevant time” is the time at which the observation holds for the patient. For a provider seeing a patient in the clinic today, observing a history of heart attack that occurred five years ago, the effectiveTime is five years ago.

The effectiveTime of the Problem Observation is the definitive indication of whether or not the underlying condition is resolved. If the problem is known to be resolved, then an effectiveTime/high would be present. If the date of resolution is not known, then effectiveTime/high will be present with a nullFlavor of "UNK".

Table 243: Problem Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)					
@classCode	1..1	SHALL		1098-9041	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-9042	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1098-10139	
templateId	1..1	SHALL		1098-14926	
@root	1..1	SHALL		1098-14927	2.16.840.1.113883.10.20.22.4.4
@extension	1..1	SHALL		1098-32508	2014-06-09
id	1..*	SHALL		1098-9043	
code	1..1	SHALL		1098-9045	urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 (Problem Type)
statusCode	1..1	SHALL		1098-9049	
@code	1..1	SHALL		1098-19112	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1098-9050	
low	1..1	SHALL		1098-15603	
high	0..1	MAY		1098-15604	
value	1..1	SHALL	CD	1098-9058	urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 (Problem)
qualifier	0..*	MAY		1098-31870	
translation	0..*	MAY		1098-16749	
@code	0..1	MAY		1098-16750	urn:oid:2.16.840.1.113883.6.90 (ICD10CM)
@code	0..1	MAY		1098-31871	
author	0..*	SHOULD		1098-31147	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
entryRelationship	0..1	MAY		1098-9059	
@typeCode	1..1	SHALL		1098-9060	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) =

					SUBJ
@inversionInd	1..1	SHALL		1098-9069	true
observation	1..1	SHALL		1098-15590	Age Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.31)
entryRelationship	0..1	MAY		1098-29951	
@typeCode	1..1	SHALL		1098-31531	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-29952	Prognosis Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.113)
entryRelationship	0..*	MAY		1098-31063	
@typeCode	1..1	SHALL		1098-31532	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-31064	Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143)
entryRelationship	0..1	MAY		1098-9063	
@typeCode	1..1	SHALL		1098-9068	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1098-15591	Problem Status (DEPRECATED) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.6:2014-06-09)

1. **SHALL** contain exactly one [1..1] @**classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-9041).
2. **SHALL** contain exactly one [1..1] @**moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-9042).

The negationInd is used to indicate the absence of the condition in observation/value. A negationInd of "true" coupled with an observation/value of SNOMED code 64572001 "Disease (disorder)" indicates that the patient has no known conditions.

3. **MAY** contain zero or one [0..1] @**negationInd** (CONF:1098-10139).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-14926) such that it
 - a. **SHALL** contain exactly one [1..1] @**root**="2.16.840.1.113883.10.20.22.4.4" (CONF:1098-14927).
 - b. **SHALL** contain exactly one [1..1] @**extension**="2014-06-09" (CONF:1098-32508).
5. **SHALL** contain at least one [1..*] **id** (CONF:1098-9043).

6. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from ValueSet [Problem Type](#) urn:oid:2.16.840.1.113883.3.88.12.3221.7.2 **STATIC** 2014-09-02 (CONF:1098-9045).
7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-9049).
 - a. This **statusCode** **SHALL** contain exactly one [1..1] **@code="completed"** Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19112).

If the problem is known to be resolved, but the date of resolution is not known, then the high element **SHALL** be present, and the nullFlavor attribute **SHALL** be set to 'UNK'. Therefore, the existence of an high element within a problem does indicate that the problem has been resolved.

8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-9050).

The effectiveTime/low (a.k.a. "onset date") asserts when the condition became biologically active.

- a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1098-15603).

The effectiveTime/high (a.k.a. "resolution date") asserts when the condition became biologically resolved.

- b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1098-15604).

9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"**, where the code **SHOULD** be selected from ValueSet [Problem](#) urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 **DYNAMIC** (CONF:1098-9058).

The observation/value and all the qualifiers together (often referred to as a post-coordinated expression) make up one concept. Qualifiers constrain the meaning of the primary code, and cannot negate it or change its meaning. Qualifiers can only be used according to well-defined rules of post-coordination and only if the underlying code system defines the use of such qualifiers or if there is a third code system that specifies how other code systems may be combined.

For example, SNOMED CT allows constructing concepts as a combination of multiple codes. SNOMED CT defines a concept "pneumonia (disorder)" (233604007) an attribute "finding site" (363698007) and another concept "left lower lobe of lung (body structure)" (41224006). SNOMED CT allows one to combine these codes in a code phrase, as shown in the sample XML.

- a. This value **MAY** contain zero or more [0..*] **qualifier** (CONF:1098-31870).
 - b. This value **MAY** contain zero or more [0..*] **translation** (CONF:1098-16749) such that it
 - i. **MAY** contain zero or one [0..1] **@code** (CodeSystem: ICD10CM urn:oid:2.16.840.1.113883.6.90 **STATIC**) (CONF:1098-16750).

A negationInd of "true" coupled with an observation/value/@code of SNOMED code 64572001 "Disease (disorder)" indicates that the patient has no known conditions.

- c. This value **MAY** contain zero or one [0..1] **@code** (CONF:1098-31871).

10. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-31147).

11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-9059) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-9060).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** True (CONF:1098-9069).
 - c. **SHALL** contain exactly one [1..1] Age Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.31) (CONF:1098-15590).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-29951) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31531).
 - b. **SHALL** contain exactly one [1..1] Prognosis Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.113) (CONF:1098-29952).
13. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-31063) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-31532).
 - b. **SHALL** contain exactly one [1..1] Priority Preference (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.143) (CONF:1098-31064).
14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-9063) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-9068).
 - b. **SHALL** contain exactly one [1..1] Problem Status (DEPRECATED) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.6:2014-06-09) (CONF:1098-15591).

Figure 112: Problem Observation (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- ** Problem Observation (V2) ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
  <id root="ab1791b0-5c71-11db-b0de-0800200c9a66" />
  <code code="75323-6"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Condition" />
  <!-- The statusCode reflects the status of the observation itself -->
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset -->
    <!-- Based on patient symptoms, presumed onset is July 3, 2013 -->
    <low value="20130703" />
    <!-- The high value reflects when the problem was known to be resolved -->
    <!-- Based on signs and symptoms, appears to be resolved on Aug 14, 2013 -->
    <high value="20080814" />
  </effectiveTime>
  <value xsi:type="CD"
    code="233604007"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Pneumonia" />
  <author typeCode="AUT">
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time value="200808141030-0800" />
    <assignedAuthor>
      <id extension="555555555" root="2.16.840.1.113883.4.6" />
      <code code="207QA0505X"
        displayName="Adult Medicine"
        codeSystem="2.16.840.1.113883.6.101"
        codeSystemName="Healthcare Provider Taxonomy (HIPAA)" />
    </assignedAuthor>
  </author>
</observation>
```


Figure 113: No Known Problems Example

```
<observation classCode="OBS" moodCode="EVN" negationInd="true">
  <!-- Model of Meaning for No Problems -->
  <!-- This is more consistent with how we did no known allergies. -->
  <!-- The use of negationInd corresponds with the newer Observation.ValueNegationInd -->
  <!-- The negationInd = true negates the value element. -->
  <!-- problem observation template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4"
    extension="2014-06-09" />
  <id root="4adc1021-7b14-11db-9fe1-0800200c9a67" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <text>
    <reference value="#problems1" />
  </text>
  <statusCode code="completed" />
  <effectiveTime>
    <low value="20130607160506" />
  </effectiveTime>
  <!-- The time when this was biologically relevant, i.e., true for the patient. -->
  <!-- As a minimum time interval over which this is true, populate the effectiveTime/low
with the current time. -->
  <!-- It would be equally valid to have a longer range of time over which this statement
was represented as being true. -->
  <!-- As a maximum, you would never indicate an effectiveTime/high that was greater than
the current point in time. -->
  <!-- This idea assumes that the value element could come from the Problem value set, or--
>
  <!-- when negationInd was true, is could also come from the ProblemType value set (and
code would be ASSERTION). -->
  <value xsi:type="CD" code="55607006" displayName="Problem"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT">
    <originalText>
      <reference value="#problemType1" />
    </originalText>
  </value>
</observation>
```

Figure 114: Resolved Problem and Resolved Concern Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- ** Problem concern act (V2) ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.3"
    extension="2014-06-09" />
  <id root="b5159d48-04aa-4927-b355-00d1dcb7158c" />
  <code code="CONC" codeSystem="2.16.840.1.113883.5.6" displayName="Concern" />
  <!-- The statusCode represents the need to continue tracking the problem -->
  <!-- This is no longer of ongoing concern to the provider -->
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value represents when the problem was first recorded in the patient's
  chart -->
    <!-- Concern was documented on Mar 10, 1998 -->
    <low value="199803101030-0800" />
    <!-- The high value reflects when there was no longer a need to track the problem -->
    <!-- Concern was closed on May 4, 1998 -->
    <high value="199805041145-0800" />
  </effectiveTime>
  <author typeCode="AUT">
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <!-- Same as Concern effectiveTime/low -->
    <time value="199803161030-0800" />
    <assignedAuthor>
      <id extension="555555555" root="2.16.840.1.113883.4.6" />
      <code code="207QA0505X"
        displayName="Adult Medicine"
        codeSystem="2.16.840.1.113883.6.101"
        codeSystemName="Healthcare Provider Taxonomy (HIPAA)" />
    </assignedAuthor>
  </author>
  <entryRelationship typeCode="SUBJ">
    <observation classCode="OBS" moodCode="EVN">
      <!-- ** Problem observation (V2) ** -->
      <templateId root="2.16.840.1.113883.10.20.22.4.4"
        extension="2014-06-09" />
      <id root="10506b4d-c30a-4220-8bec-97bff9568fd1" />
      <code code="75323-6"
        codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC"
        displayName="Condition" />
      <!-- The statusCode reflects the status of the observation itself -->
      <statusCode code="completed" />
      <effectiveTime>
        <!-- The low value reflects the date of onset -->
        <!-- Based on patient symptoms, presumed onset is Mar 10, 1998 -->
        <low value="19980310" />
        <!-- The high value reflects when the problem was known to be resolved -->
        <high value="19980316" />
      </effectiveTime>
      <value xsi:type="CD"
        code="233604007"
        codeSystem="2.16.840.1.113883.6.96"
        displayName="Pneumonia">
        <qualifier>
          <name code="363698007" displayName="Finding site" />
        </qualifier>
      </value>
    </observation>
  </entryRelationship>
</act>
```

```
        <value code="41224006" displayName="Left lower lobe of lung" />
      </qualifier>
    </value>
    <author typeCode="AUT">
      <templateId root="2.16.840.1.113883.10.20.22.4.119" />
      <time value="199803161030-0800" />
      <assignedAuthor>
        <id extension="555555555" root="2.16.840.1.113883.4.6" />
        <code code="207QA0505X"
          displayName="Adult Medicine"
          codeSystem="2.16.840.1.113883.6.101"
          codeSystemName="Healthcare Provider Taxonomy (HIPAA)" />
      </assignedAuthor>
    </author>
  </observation>
</entryRelationship>
</act>
```

Figure 115: Problem with Qualifiers Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- ** Problem observation (V2) ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4"
    extension="2014-06-09" />
  <id root="10506b4d-c30a-4220-8bec-97bff9568fd1" />
  <code code="75323-6"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Condition" />
  <!-- The statusCode reflects the status of the observation itself -->
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset -->
    <!-- Based on patient symptoms, presumed onset is Mar 10, 1998 -->
    <low value="19980310" />
    <!-- The high value reflects when the problem was known to be resolved -->
    <high value="19980316" />
  </effectiveTime>
  <value xsi:type="CD"
    code="233604007"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Pneumonia">
    <qualifier>
      <name code="363698007" displayName="Finding site" />
      <value code="41224006" displayName="Left lower lobe of lung" />
    </qualifier>
  </value>
  <author typeCode="AUT">
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time value="199803161030-0800" />
    <assignedAuthor>
      <id extension="555555555" root="2.16.840.1.113883.4.6" />
      <code code="207QA0505X"
        displayName="Adult Medicine"
        codeSystem="2.16.840.1.113883.6.101"
        codeSystemName="Healthcare Provider Taxonomy (HIPAA)" />
    </assignedAuthor>
  </author>
</observation>
```

4.46.1 Diagnosis Active (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.11:2014-12-01
(open)]

Table 244: Diagnosis Active (V2) Contexts

Contained By:	Contains:
Diagnosis Active Concern Act (required)	Patient Preference (V2) Provider Preference (V2) Reason (V2) Severity Observation (V2)

This template, along with its containing template Diagnosis Active Concern Act, represents the QDM datatype: Diagnosis, Active.

An active diagnosis is a problem, diagnosis or condition that is currently monitored or tracked or is a factor that must be considered as part of the treatment plan in progress. The Observation/Code is constrained to "Diagnosis" and an effectiveTime/low is required.

QDM Attribute: Start Datetime is the time the active diagnosis is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Diagnosis Active Concern Act template. QDM Attribute: Stop Datetime is the time the diagnosis is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Diagnosis Active Concern Act template. The observation/effectiveTime/low represents the onset date.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 245: Diagnosis Active (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.11:2014-12-01)					
@classCode	1..1	SHALL		1140-12012	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-27395	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28056	
templateId	1..1	SHALL		1140-11972	
@root	1..1	SHALL		1140-11973	2.16.840.1.113883.10.20.24.3.11
@extension	1..1	SHALL		1140-27096	2014-12-01
code	1..1	SHALL		1140-11980	
@code	1..1	SHALL		1140-11995	29308-4
@codeSystem	1..1	SHALL		1140-27116	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
effectiveTime	1..1	SHALL		1140-11983	
low	1..1	SHALL		1140-11984	
priorityCode	0..1	MAY		1140-14547	
value	1..1	SHALL	CD	1140-12008	
@sdtc:valueSet	1..1	SHALL		1140-27588	
qualifier	0..*	MAY		1140-12009	
name	1..1	SHALL		1140-12010	
value	1..1	SHALL		1140-12011	
targetSiteCode	0..1	MAY		1140-27590	
translation	0..*	MAY		1140-27591	
entryRelationship	0..1	MAY		1140-11986	
@typeCode	1..1	SHALL		1140-11987	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON

observation	1..1	SHALL		1140-27191	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11989	
@typeCode	1..1	SHALL		1140-11990	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27192	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-11992	
@typeCode	1..1	SHALL		1140-11993	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-11994	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-11996	
@typeCode	1..1	SHALL		1140-11997	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-11998	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.8:2014-06-09)

1. Conforms to [Problem Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12012).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27395).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28056).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11972) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.11" (CONF:1140-11973).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27096).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-11980).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="29308-4" diagnosis (CONF:1140-11995).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27116).

7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-11983).
 - a. This **effectiveTime** **SHALL** contain exactly one [1..1] **low** (CONF:1140-11984).
8. **MAY** contain zero or one [0..1] **priorityCode** (CONF:1140-14547).
9. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD" (CONF:1140-12008).
 - a. This **value** **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27588).
 - b. This **value** **MAY** contain zero or more [0..*] **qualifier** (CONF:1140-12009).
 - i. The **qualifier**, if present, **SHALL** contain exactly one [1..1] **name** (CONF:1140-12010).
 - ii. The **qualifier**, if present, **SHALL** contain exactly one [1..1] **value** (CONF:1140-12011).

If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code.

10. **MAY** contain zero or one [0..1] **targetSiteCode** (CONF:1140-27590).
 - a. The **targetSiteCode**, if present, **MAY** contain zero or more [0..*] **translation** (CONF:1140-27591).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11986) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11987).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27191).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11989) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11990).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27192).
13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11992) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11993).
 - b. **SHALL** contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-11994).
14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11996) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11997).
 - b. **SHALL** contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-11998).

15. This template **SHALL** be contained by a Diagnosis Active Concern Act (CONF:1140-28233).

Figure 116: Diagnosis Active (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA Problem Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
  <!-- Diagnosis Active (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.11" extension="2014-12-01" />
  <id root="e5d9e01e-d778-40ba-9bd0-351d0222b26c" />
  <code code="29308-4" displayName="diagnosis"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- Onset date -->
    <low value="20110101090000+0500" />
  </effectiveTime>
  <!-- QDM Attribute: Ordinality -->
  <!-- The following code may not be correct and may change in the future (if
    the relevant eMeasure is changed -->
  <priorityCode code="63161005" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" displayName="Principal" />
  <!-- Diagnosis -->
  <value xsi:type="CD" code="25907005" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" displayName="Diabetic gangrene (disorder)"
    sdct:valueSet="{ $QDMElementValueSetOID }">
    <!-- QDM Attribute: Laterality -->
    <qualifier>
      <name code="182353008" codeSystem="2.16.840.1.113883.6.96"
        displayName="Side" />
      <value xsi:type="CD" code="2.16.840.1.113883.3.67.1.101.1.8902"
        displayName="right" />
    </qualifier>
  </value>
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime
        (equivalent to effectiveTime/low in the containing act) -->
      <low value="201204081130" />
    </time>
    ...
  </author>
  <!-- QDM Attribute Anatomical Location Site -->
  <targetSiteCode code="56459004" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="foot"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
```

```

        <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
        ...

    </observation>
</entryRelationship>
<!-- QDM Attribute: Reason -->
<entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
    ...

    </observation>
</entryRelationship>
<!-- QDM Attribute: Severity -->
<entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.22.4.8"
            extension="2014-06-09" />
    ...

    </observation>
</entryRelationship>
</observation>

```

4.46.2 Diagnosis Inactive (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.13:2014-12-01 (open)]

Table 246: Diagnosis Inactive (V2) Contexts

Contained By:	Contains:
Diagnosis Inactive Concern Act (required)	Patient Preference (V2) Provider Preference (V2) Severity Observation (V2)

This template, along with its containing template Diagnosis Inactive Concern Act, represents the QDM datatype: Diagnosis, Inactive.

An inactive diagnosis is a diagnosis that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future (e.g., a cancer diagnosis in remission). The Observation/Code is constrained to "Diagnosis" and both effectiveTime/low and effectiveTime/high are required.

QDM Attribute: Start Datetime is the time the active diagnosis is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Diagnosis Inactive Concern Act template. QDM Attribute: Stop Datetime is the time the diagnosis is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Diagnosis Inactive Concern Act template. The observation/effectiveTime represents the period of time from onset date (low) until the inactive or resolved date (high).

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 247: Diagnosis Inactive (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.13:2014-12-01)					
@classCode	1..1	SHALL		1140-12047	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-27403	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28058	
templateId	1..1	SHALL		1140-12016	
@root	1..1	SHALL		1140-12017	2.16.840.1.113883.10.20.24.3.13
@extension	1..1	SHALL		1140-27100	2014-12-01
code	1..1	SHALL		1140-12024	
@code	1..1	SHALL		1140-12025	29308-4
@codeSystem	1..1	SHALL		1140-28133	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
effectiveTime	1..1	SHALL		1140-12028	
low	1..1	SHALL		1140-12029	
high	1..1	SHALL		1140-12030	
priorityCode	0..1	MAY		1140-14549	
value	1..1	SHALL	CD	1140-27611	
@sdct:valueSet	1..1	SHALL		1140-27612	
targetSiteCode	0..*	MAY		1140-28377	
translation	0..*	MAY		1140-28378	
entryRelationship	0..1	MAY		1140-12031	
@typeCode	1..1	SHALL		1140-12032	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27189	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-	

				12034	
@typeCode	1..1	SHALL		1140-12035	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27190	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
entryRelationship	0..1	MAY		1140-12040	
@typeCode	1..1	SHALL		1140-12041	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27099	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09

1. Conforms to [Problem Observation \(V2\)](#) template (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09).
 2. **SHALL** contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass
urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12047).
 3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood
urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27403).
 4. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28058).
 5. **SHALL** contain exactly one [1..1] templateId (CONF:1140-12016) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.13" (CONF:1140-12017).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27100).
 6. **SHALL** contain exactly one [1..1] code (CONF:1140-12024).
 - a. This code **SHALL** contain exactly one [1..1] @code="29308-4" diagnosis (CONF:1140-12025).
 - b. This code **SHALL** contain exactly one [1..1]
@codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC
urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28133).
 7. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1140-12028).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1140-12029).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] high (CONF:1140-12030).
 8. **MAY** contain zero or one [0..1] priorityCode (CONF:1140-14549).
 9. **SHALL** contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27611).
 - a. This value **SHALL** contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27612).
- If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code.
10. **MAY** contain zero or more [0..*] targetSiteCode (CONF:1140-28377).

- a. The targetSiteCode, if present, **MAY** contain zero or more [0..*] **translation** (CONF:1140-28378).
- 11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12031) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12032).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27189).
- 12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12034) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12035).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27190).
- 13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12040) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12041).
 - b. **SHALL** contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27099).
- 14. This template **SHALL** be contained by a Diagnosis Inactive Concern Act (CONF:1140-28234).

Figure 117: Diagnosis Inactive (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA Problem Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
  <!-- Diagnosis Inactive (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.13" extension="2014-12-01" />
  <id root="e5d9e01e-d778-40ba-9bd0-351d0222b26c" />
  <code code="29308-4" displayName="diagnosis"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- Onset date -->
    <low value="19950101" />
    <!-- Resolution date -->
    <high value="20140101" />
  </effectiveTime>
  <!-- QDM Attribute: Ordinality -->
  <!-- The following code may not be correct and may change in the future (if
        the relevant eMeasure is changed -->
  <priorityCode code="63161005" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" displayName="Principal" />
  <!-- Diagnosis -->
  <value xsi:type="CD" code="25907005" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" displayName="Diabetic gangrene (disorder)"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- QDM Attribute Anatomical Location Site -->
  <targetSiteCode code="56459004" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="foot"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime
            (equivalent to effectiveTime/low in the containing act) -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime
            (equivalent to effectiveTime/high in the containing act) -->
      <high value="201204081135" />
    </time>
    ...
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  ...
</observation>
```



```

        </observation>
    </entryRelationship>
    <!-- QDM Attribute: Severity -->
    <entryRelationship typeCode="REFR">
        <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.22.4.8" extension="2014-06-09" />
            ...

        </observation>
    </entryRelationship>
</observation>

```

4.46.3 Diagnosis Resolved (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.14:2014-12-01 (open)]

Table 248: Diagnosis Resolved (V2) Contexts

Contained By:	Contains:
Diagnosis Resolved Concern Act (required)	Patient Preference (V2) Provider Preference (V2) Severity Observation (V2)

This template, along with its containing template Diagnosis Resolved Concern Act, represents the QDM datatype: Diagnosis, Resolved.

A resolved diagnosis is a diagnosis that no longer requires treatment and, by its nature is unlikely to recur. The Observation/Code is constrained to Diagnosis and effectiveTime/low and and effectiveTime/high are required.

QDM Attribute: Start Datetime is the time the active diagnosis is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Diagnosis Resolved Concern Act template. QDM Attribute: Stop Datetime is the time the diagnosis is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Diagnosis Resolved Concern Act template. The observation/effectiveTime represents the period of time from onset date (low) until the inactive or resolved date (high).

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 249: Diagnosis Resolved (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.14:2014-12-01)					
@classCode	1..1	SHALL		1140-12077	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-27399	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28059	
templateId	1..1	SHALL		1140-12051	
@root	1..1	SHALL		1140-12052	2.16.840.1.113883.10.20.24.3.14
@extension	1..1	SHALL		1140-27103	2014-12-01
code	1..1	SHALL		1140-12059	
@code	1..1	SHALL		1140-12060	29308-4
@codeSystem	1..1	SHALL		1140-28134	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
effectiveTime	1..1	SHALL		1140-12061	
low	1..1	SHALL		1140-12062	
high	1..1	SHALL		1140-12063	
priorityCode	0..1	MAY		1140-14550	
value	1..1	SHALL	CD	1140-27613	
@sdct:valueSet	1..1	SHALL		1140-27614	
targetSiteCode	0..*	MAY		1140-28375	
translation	0..*	MAY		1140-28376	
entryRelationship	0..1	MAY		1140-12064	
@typeCode	1..1	SHALL		1140-12065	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27187	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-	

				12067	
@typeCode	1..1	SHALL		1140-12068	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27188	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
entryRelationship	0..1	MAY		1140-12073	
@typeCode	1..1	SHALL		1140-12074	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27102	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09

1. Conforms to [Problem Observation \(V2\)](#) template (identifier:
urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09).
 2. **SHALL** contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass
urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12077).
 3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood
urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27399).
 4. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28059).
 5. **SHALL** contain exactly one [1..1] templateId (CONF:1140-12051) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.14" (CONF:1140-12052).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27103).
 6. **SHALL** contain exactly one [1..1] code (CONF:1140-12059).
 - a. This code **SHALL** contain exactly one [1..1] @code="29308-4" diagnosis (CONF:1140-12060).
 - b. This code **SHALL** contain exactly one [1..1]
@codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC
urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28134).
 7. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1140-12061).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1140-12062).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] high (CONF:1140-12063).
 8. **MAY** contain zero or one [0..1] priorityCode (CONF:1140-14550).
 9. **SHALL** contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27613).
 - a. This value **SHALL** contain exactly one [1..1] @sdct:valueSet (CONF:1140-27614).
- If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code.
10. **MAY** contain zero or more [0..*] targetSiteCode (CONF:1140-28375).

- a. The targetSiteCode, if present, **MAY** contain zero or more [0..*] **translation** (CONF:1140-28376).
- 11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12064) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12065).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27187).
- 12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12067) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12068).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27188).
- 13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12073) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12074).
 - b. **SHALL** contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27102).
- 14. This template **SHALL** be contained by a Diagnosis Resolved Concern Act (CONF:1140-28235).

Figure 118: Diagnosis Resolved (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA Problem Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
  <!-- Diagnosis Resolved (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.14" extension="2014-12-01" />
  <id root="e5d9e01e-d778-40ba-9bd0-351d0222b26c" />
  <code code="29308-4" displayName="diagnosis"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- Onset date -->
    <low value="19950101" />
    <!-- Resolution date -->
    <high value="20140101" />
  </effectiveTime>
  <!-- QDM Attribute: Ordinality -->
  <!-- The following code may not be correct and may change in the future (if
        the relevant eMeasure is changed -->
  <priorityCode code="63161005" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" displayName="Principal" />
  <!-- Diagnosis -->
  <value xsi:type="CD" code="25907005" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" displayName="Diabetic gangrene (disorder)"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- QDM Attribute Anatomical Location Site -->
  <targetSiteCode code="56459004" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="foot" sdct:valueSet="{ $QDMElementValueSetOID }"
  />

  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime
            (equivalent to effectiveTime/low in the containing act) -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime
            (equivalent to effectiveTime/high in the containing act)-->
      <high value="201204081135" />
    </time>
    ...
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  ...
</observation>
```

```

        </observation>
    </entryRelationship>
    <!-- QDM Attribute: Severity -->
    <entryRelationship typeCode="REFR">
        <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.22.4.8" extension="2014-06-09" />
            ...

        </observation>
    </entryRelationship>
</observation>

```

4.46.4 Symptom Active (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.76:2014-12-01 (open)]

Table 250: Symptom Active (V2) Contexts

Contained By:	Contains:
Symptom Active Concern Act (required)	Patient Preference (V2) Provider Preference (V2) Severity Observation (V2)

This template, along with its containing template Symptom Active Concern Act, represents the QDM datatype: Symptom, Active.

An active symptom is a patient's reported perception of departure from normal functioning that is present at the time indicated. The observation/code is constrained to "Symptom" and an effectiveTime/low is required.

QDM Attribute: Start Datetime is the time the active symptom is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Symptom Active Concern Act template. QDM Attribute: Stop Datetime is the time the symptom is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Symptom Active Concern Act template. The observation/effectiveTime/low represents the onset date.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 251: Symptom Active (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.76:2014-12-01)					
@classCode	1..1	SHALL		1140-12281	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-27381	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28113	
templateId	1..1	SHALL		1140-12254	
@root	1..1	SHALL		1140-12255	2.16.840.1.113883.10.20.24.3.76
@extension	1..1	SHALL		1140-27105	2014-12-01
code	1..1	SHALL		1140-12260	
@code	1..1	SHALL		1140-12261	75325-1
@codeSystem	1..1	SHALL		1140-27567	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
effectiveTime	1..1	SHALL		1140-12262	
low	1..1	SHALL		1140-12263	
priorityCode	0..1	MAY		1140-14555	
value	1..1	SHALL	CD	1140-27662	
@sdtc:valueSet	1..1	SHALL		1140-27663	
entryRelationship	0..1	MAY		1140-12265	
@typeCode	1..1	SHALL		1140-12266	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27185	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12268	
@typeCode	1..1	SHALL		1140-12269	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27186	Provider Preference (V2) (identifier:

					urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
entryRelationship	0..1	MAY		1140-12274	
@typeCode	1..1	SHALL		1140-12275	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27104	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09)

1. Conforms to [Problem Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12281).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27381).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28113).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12254) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.76" (CONF:1140-12255).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27105).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12260).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="75325-1" Symptom (CONF:1140-12261).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27567).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-12262).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-12263).
8. **MAY** contain zero or one [0..1] **priorityCode** (CONF:1140-14555).
9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-27662).
 - a. This value **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27663).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12265) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12266).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27185).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12268) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12269).

- b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27186).
- 12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12274) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12275).
 - b. **SHALL** contain exactly one [1..1] [Severity Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27104).
- 13. This template **SHALL** be contained by a Symptom Active Concern Act (CONF:1140-28236).

Figure 119: Symptom Active (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Problem Observation (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
  <!-- Symptom Active (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.76" extension="2014-12-01" />
  <id root="e5d9e01e-d778-40ba-9bd0-351d0222b299" />
  <code code="75325-1"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Symptom" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset -->
    <low value="201204081129" />
  </effectiveTime>
  <!-- QDM Attribute: Ordinality -->
  <priorityCode code="267036007" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" displayName="Principal" />
  <!-- Symptom -->
  <value xsi:type="CD"
    code="233604007"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Shortness of breath"
    sdtc:valueSet="{ $QDMElementValueSetOID }" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime (equivalent to effectiveTime/low
        in the containing act) -->
      <low value="201204081130" />
    </time>
    ...
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  ...
</observation>
```

```

</entryRelationship>
<!-- QDM Attribute: Severity -->
<entryRelationship typeCode="REFR">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.4.8"
      extension="2014-06-09" />
    ...

  </observation>
</entryRelationship>
</observation>

```

4.46.5 Symptom Assessed (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.77:2014-12-01 (open)]

Table 252: Symptom Assessed (V2) Contexts

Contained By:	Contains:
Symptom Assessed Concern Act (required)	Patient Preference (V2) Provider Preference (V2) Severity Observation (V2)

This template, along with its containing template Symptom Assessed Concern Act, represents the QDM datatype: Symptom, Assessed.

This datatype represents a patient's reported perception of departure from normal functioning. This is a symptom that has been evaluated. A time/date stamp is required.

QDM Attribute: Start Datetime is the time the assessed symptom is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Symptom Assessed Concern Act template. QDM Attribute: Stop Datetime is the time the symptom is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Symptom Assessed Concern Act template. The observation/effectiveTime/low represents the onset date.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 253: Symptom Assessed (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.77:2014-12-01)					
@classCode	1..1	SHALL		1140-12898	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-27382	urn:oid:2.16.840.1.113883.5.100 1 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28114	
templateId	1..1	SHALL		1140-12877	
@root	1..1	SHALL		1140-12878	2.16.840.1.113883.10.20.24.3.77
@extension	1..1	SHALL		1140-27108	2014-12-01
code	1..1	SHALL		1140-13132	
@code	1..1	SHALL		1140-13133	75325-1
@codeSystem	1..1	SHALL		1140-27564	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
priorityCode	0..1	MAY		1140-14556	
value	1..1	SHALL	CD	1140-27609	
@sdtc:valueSet	1..1	SHALL		1140-27610	
entryRelationship	0..1	MAY		1140-12888	
@typeCode	1..1	SHALL		1140-12889	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27183	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12891	
@typeCode	1..1	SHALL		1140-12892	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27184	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-12894	

@typeCode	1..1	SHALL		1140-12895	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27107	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09)

1. Conforms to [Problem Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09).
2. **SHALL** contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12898).
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27382).
4. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28114).
5. **SHALL** contain exactly one [1..1] templateId (CONF:1140-12877) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.77" (CONF:1140-12878).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27108).
6. **SHALL** contain exactly one [1..1] code (CONF:1140-13132).
 - a. This code **SHALL** contain exactly one [1..1] @code="75325-1" Symptom (CONF:1140-13133).
 - b. This code **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27564).
7. **MAY** contain zero or one [0..1] priorityCode (CONF:1140-14556).
8. **SHALL** contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27609).
 - a. This value **SHALL** contain exactly one [1..1] @sdtec:valueset (CONF:1140-27610).
9. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12888) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12889).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27183).
10. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12891) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12892).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27184).
11. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12894) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12895).
 - b. **SHALL** contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27107).
12. This template **SHALL** be contained by a Symptom Assessed Concern Act (CONF:1140-28404).

Figure 120: Symptom Assessed (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Problem Observation (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
  <!-- Symptom Assessed (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.77" extension="2014-12-01" />
  <id root="e5d9e01e-d778-40ba-9bd0-351d0222b299" />
  <code code="75325-1"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Symptom" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset -->
    <low value="20130703" />
  </effectiveTime>
  <!-- QDM Attribute: Ordinality -->
  <priorityCode code="267036007" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" displayName="Principal" />
  <!-- Symptom -->
  <value xsi:type="CD"
    code="233604007"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Shortness of breath"
    sdtc:valueSet="{ $QDMElementValueSetOID }" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime -->
      <high value="201204081135" />
    </time>
    ...
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Severity -->
  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.8" extension="2014-06-09" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

```
</entryRelationship>
</observation>
```

4.46.6 Symptom Inactive (V2)

```
[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.78:2014-12-01
(open) ]
```

Table 254: Symptom Inactive (V2) Contexts

Contained By:	Contains:
Symptom Inactive Concern Act (required)	Patient Preference (V2) Provider Preference (V2) Severity Observation (V2)

This template, along with its containing template Symptom Inactive Concern Act, represents the QDM datatype: Symptom, Inactive.

An inactive symptom is a symptom that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future. A time/date stamp is required. The observation/code is constrained to "Symptom" and both effectiveTime/low and effectiveTime/high are required.

QDM Attribute: Start Datetime is the time the active symptom is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Symptom Inactive Concern Act template. QDM Attribute: Stop Datetime is the time the symptom is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Symptom Inactive Concern Act template. The observation/effectiveTime represents the period of time from onset date (low) until the inactive or resolved date (high).

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 255: Symptom Inactive (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.78:2014-12-01)					
@classCode	1..1	SHALL		1140-12309	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-27383	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28115	
templateId	1..1	SHALL		1140-12285	
@root	1..1	SHALL		1140-12286	2.16.840.1.113883.10.20.24.3.78
@extension	1..1	SHALL		1140-27113	2014-12-01
code	1..1	SHALL		1140-12291	
@code	1..1	SHALL		1140-12292	75325-1
@codeSystem	1..1	SHALL		1140-27565	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
effectiveTime	1..1	SHALL		1140-12293	
low	1..1	SHALL		1140-12294	
high	1..1	SHALL		1140-12295	
priorityCode	0..1	MAY		1140-14557	
value	1..1	SHALL	CD	1140-27664	
@sdct:valueSet	1..1	SHALL		1140-27665	
entryRelationship	0..1	MAY		1140-12296	
@typeCode	1..1	SHALL		1140-12297	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27181	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12299	
@typeCode	1..1	SHALL		1140-12300	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON

observation	1..1	SHALL		1140-27182	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
entryRelationship	0..1	MAY		1140-12305	
@typeCode	1..1	SHALL		1140-12306	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27112	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09

1. Conforms to [Problem Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode="OBS"** (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12309).
3. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27383).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28115).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12285) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.78"** (CONF:1140-12286).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-12-01"** (CONF:1140-27113).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12291).
 - a. This code **SHALL** contain exactly one [1..1] **@code="75325-1"** Symptom (CONF:1140-12292).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.6.1"** (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27565).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-12293).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-12294).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] **high** (CONF:1140-12295).
8. **MAY** contain zero or one [0..1] **priorityCode** (CONF:1140-14557).
9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"** (CONF:1140-27664).
 - a. This value **SHALL** contain exactly one [1..1] **@sdtec:valueset** (CONF:1140-27665).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12296) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12297).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27181).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12299) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12300).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27182).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12305) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12306).
 - b. **SHALL** contain exactly one [1..1] [Severity Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27112).
13. This template **SHALL** be contained by a Symptom Inactive Concern Act (CONF:1140-28237).

Figure 121: Symptom Inactive (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Problem Observation (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
  <!-- Symptom Inactive (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.78" extension="2014-12-01" />
  <id root="e5d9e01e-d778-40ba-9bd0-351d0222b299" />
  <code code="75325-1"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Symptom" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset -->
    <low value="20130703" />
    <!-- The high value reflects the date of inactivity or resolution -->
    <high value="20140703" />
  </effectiveTime>
  <!-- QDM Attribute: Ordinality -->
  <priorityCode code="267036007"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT"
    displayName="Principal" />
  <!-- Symptom -->
  <value xsi:type="CD" code="233604007"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Shortness of breath"
    sdtc:valueSet="{ $QDMElementValueSetOID }" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime
        (equivalent to effectiveTime/low in the containing act) -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime
        (equivalent to effectiveTime/high in the containing act) -->
      <high value="201204081135" />
    </time>
    ...
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

```

        </observation>
    </entryRelationship>
    <!-- QDM Attribute: Severity -->
    <entryRelationship typeCode="REFR">
        <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.22.4.8" extension="2014-06-09" />
            ...

        </observation>
    </entryRelationship>
</observation>

```

4.46.7 Symptom Resolved (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.79:2014-12-01
(open)]

Table 256: Symptom Resolved (V2) Contexts

Contained By:	Contains:
Symptom Resolved Concern Act (required)	Patient Preference (V2) Provider Preference (V2) Severity Observation (V2)

This template, along with its containing template Symptom Resolved Concern Act, represents the QDM datatype: Symptom, Resolved.

A resolved symptom is a symptom that has been present in the past and is currently not expected to recur. A time/date stamp is required. The observation/code is constrained to "Symptom" and effectiveTime/low and effectiveTime/high are required.

QDM Attribute: Start Datetime is the time the active symptom is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Symptom Resolved Concern Act template. QDM Attribute: Stop Datetime is the time the symptom is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Symptom Resolved Concern Act template. The observation/effectiveTime represents the period of time from onset date (low) until the inactive or resolved date (high).

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 257: Symptom Resolved (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.79:2014-12-01)					
@classCode	1..1	SHALL		1140-12338	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-27390	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28116	
templateId	1..1	SHALL		1140-12314	
@root	1..1	SHALL		1140-12315	2.16.840.1.113883.10.20.24.3.79
@extension	0..1	SHALL		1140-27391	2014-12-01
code	1..1	SHALL		1140-12320	
@code	1..1	SHALL		1140-12321	75325-1
@codeSystem	1..1	SHALL		1140-27566	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
effectiveTime	1..1	SHALL		1140-12322	
low	1..1	SHALL		1140-12323	
high	1..1	SHALL		1140-12324	
priorityCode	0..1	MAY		1140-14558	
value	1..1	SHALL	CD	1140-27666	
@sdct:valueSet	1..1	SHALL		1140-27667	
entryRelationship	0..1	MAY		1140-12325	
@typeCode	1..1	SHALL		1140-12326	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27180	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12328	
@typeCode	1..1	SHALL		1140-12329	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON

observation	1..1	SHALL		1140-12330	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
entryRelationship	0..1	MAY		1140-12334	
@typeCode	1..1	SHALL		1140-12335	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-12336	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09

1. Conforms to [Problem Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12338).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27390).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28116).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12314) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.79" (CONF:1140-12315).
 - b. **SHALL** contain zero or one [0..1] **@extension**="2014-12-01" (CONF:1140-27391).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12320).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="75325-1" Symptom (CONF:1140-12321).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27566).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-12322).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-12323).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] **high** (CONF:1140-12324).
8. **MAY** contain zero or one [0..1] **priorityCode** (CONF:1140-14558).
9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-27666).
 - a. This value **SHALL** contain exactly one [1..1] **@sdtec:valueset** (CONF:1140-27667).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12325) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12326).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27180).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12328) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12329).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-12330).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12334) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12335).
 - b. **SHALL** contain exactly one [1..1] [Severity Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-12336).
13. This template **SHALL** be contained by a Symptom Resolved Concern Act (CONF:1140-28238).

Figure 122: Symptom Resolved (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Problem Observation (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.22.4.4" extension="2014-06-09" />
  <!-- Symptom Resolved (V2) template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.79" extension="2014-12-01" />
  <id root="e5d9e01e-d778-40ba-9bd0-351d0222b299" />
  <code code="75325-1"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Symptom" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset -->
    <low value="20130703" />
    <!-- The high value reflects the date of resolution -->
    <high value="20140703" />
  </effectiveTime>
  <!-- QDM Attribute: Ordinality -->
  <priorityCode code="267036007" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" displayName="Principal" />
  <!-- Symptom -->
  <value xsi:type="CD" code="233604007" codeSystem="2.16.840.1.113883.6.96"
    displayName="Shortness of breath" sdtx:valueSet="{QDMElementValueSetOID}" />
  <author>
    <!-- C-CDA R2 Author Participation -->
    <templateId root="2.16.840.1.113883.10.20.22.4.119" />
    <time xsi:type="IVL_TS">
      <!-- QDM Attribute: Start Datetime
        (equivalent to effectiveTime/low in the containing act) -->
      <low value="201204081130" />
      <!-- QDM Attribute: Stop Datetime
        (equivalent to effectiveTime/high in the containing act) -->
      <high value="201204081135" />
    </time>
    ...
  </author>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Severity -->
  <entryRelationship typeCode="REFR">
```

```

        <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.22.4.8" extension="2014-06-09" />
            ...

        </observation>
    </entryRelationship>
</observation>

```

4.47 Problem Status (DEPRECATED) - Deprecated

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.6:2014-06-09
(open)]

Table 258: Problem Status (DEPRECATED) Contexts

Contained By:	Contains:
Problem Observation (V2) (optional)	

The Problem Status records whether the indicated problem is active, inactive, or resolved.

THIS TEMPLATE HAS BEEN DEPRECATED IN C-CDA R2 AND MAY BE DELETED FROM A FUTURE RELEASE OF THIS IMPLEMENTATION GUIDE. USE OF THIS TEMPLATE IS NOT RECOMMENDED.

Reason for deprecation: Per the explanation in Volume 1, Section 3.2 "Determining a Clinical Statement's Status", the status of a problem is determined based on attributes of the Problem Observation.

Table 259: Problem Status (DEPRECATED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.6:2014-06-09)					
@classCode	1..1	SHALL		1098-7357	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-7358	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-7359	
@root	1..1	SHALL		1098-10518	2.16.840.1.113883.10.20.22.4.6
@extension	1..1	SHALL		1098-32581	2014-06-09
code	1..1	SHALL		1098-19162	
@code	1..1	SHALL		1098-19163	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 33999-4
statusCode	1..1	SHALL		1098-7364	
@code	1..1	SHALL		1098-19113	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
value	1..1	SHALL	CD	1098-7365	urn:oid:2.16.840.1.113883.3.88.12.80.68 (Problem Status)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7357).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7358).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7359) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.6" (CONF:1098-10518).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32581).
4. **SHALL** contain exactly one [1..1] **code** (CONF:1098-19162).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="33999-4" Status (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1 **STATIC**) (CONF:1098-19163).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7364).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19113).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD", where the code **SHALL** be selected from ValueSet [Problem Status](#) urn:oid:2.16.840.1.113883.3.88.12.80.68 **DYNAMIC** (CONF:1098-7365).

4.48 Procedure Activity Act (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.12:2014-06-09 (open)]

Table 260: Procedure Activity Act (V2) Contexts

Contained By:	Contains:
	Author Participation Indication (V2) Instruction (V2) Medication Activity (V2) Service Delivery Location

This template represents any act that cannot be classified as an observation or procedure according to the HL7 RIM. Examples of these acts are a dressing change, teaching or feeding a patient, or providing comfort measures.

The common notion of "procedure" is broader than that specified by the HL7 Version 3 Reference Information Model (RIM). Procedure templates can be represented with various RIM classes: act (e.g., dressing change), observation (e.g., EEG), procedure (e.g., splenectomy).

Table 261: Procedure Activity Act (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.12:2014-06-09)					
@classCode	1..1	SHALL		1098-8289	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-8290	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-8291	
@root	1..1	SHALL		1098-10519	2.16.840.1.113883.10.20.22.4.12
@extension	1..1	SHALL		1098-32505	2014-06-09
id	1..*	SHALL		1098-8292	
code	1..1	SHALL		1098-8293	
originalText	0..1	SHOULD		1098-19186	
reference	0..1	MAY		1098-19187	
@value	0..1	MAY		1098-19188	
statusCode	1..1	SHALL		1098-8298	
@code	1..1	SHALL		1098-32364	urn:oid:2.16.840.1.113883.11.20.9.22 (ProcedureAct statusCode)
effectiveTime	1..1	SHALL		1098-8299	
priorityCode	0..1	MAY		1098-8300	urn:oid:2.16.840.1.113883.1.11.16866 (Act Priority)
performer	0..*	SHOULD		1098-8301	
assignedEntity	1..1	SHALL		1098-8302	
id	1..1	SHALL		1098-8303	
addr	1..1	SHALL		1098-8304	
telecom	1..*	SHALL		1098-8305	
representedOrganization	0..1	SHOULD		1098-8306	
id	0..*	SHOULD		1098-8307	

name	0..*	MAY		1098-8308	
telecom	1..*	SHALL		1098-8310	
addr	1..*	SHALL		1098-8309	
author	1..*	SHOULD		1098-32477	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	0..*	MAY		1098-8311	
@typeCode	1..1	SHALL		1098-8312	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
participantRole	1..1	SHALL		1098-15599	Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32)
entryRelationship	0..*	MAY		1098-8314	
@typeCode	1..1	SHALL		1098-8315	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
@inversionInd	1..1	SHALL		1098-8316	true
encounter	1..1	SHALL		1098-8317	
@classCode	1..1	SHALL		1098-8318	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		1098-8319	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
id	1..1	SHALL		1098-8320	
entryRelationship	0..1	MAY		1098-8322	
@typeCode	1..1	SHALL		1098-8323	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1098-8324	true
act	1..1	SHALL		1098-31396	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09)
entryRelationship	0..*	MAY		1098-8326	
@typeCode	1..1	SHALL		1098-8327	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON

observation	1..1	SHALL		1098-15601	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.19:2014-06-09)
entryRelationship	0..*	MAY		1098-8329	
@typeCode	1..1	SHALL		1098-8330	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
substanceAdministration	1..1	SHALL		1098-15602	Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.16:2014-06-09)

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8289).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-8290).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-8291) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.12" (CONF:1098-10519).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32505).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-8292).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-8293).
 - a. This code **SHOULD** contain zero or one [0..1] **originalText** (CONF:1098-19186).
 - i. The originalText, if present, **MAY** contain zero or one [0..1] **reference** (CONF:1098-19187).
 1. The reference, if present, **MAY** contain zero or one [0..1] **@value** (CONF:1098-19188).
 - a. This reference/**@value** **SHALL** begin with a '#' and **SHALL** point to its corresponding narrative (using the approach defined in CDA Release 2, section 4.3.5.1) (CONF:1098-19189).
 - b. This **@code** **SHOULD** be selected from LOINC (CodeSystem: 2.16.840.1.113883.6.1) or SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96), and **MAY** be selected from CPT-4 (CodeSystem: 2.16.840.1.113883.6.12) or ICD10 PCS (CodeSystem: 2.16.840.1.113883.6.4) or CDT-2 (Code System: 2.16.840.1.113883.6.13) (CONF:1098-19190).
 6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-8298).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [ProcedureAct statusCode](#) urn:oid:2.16.840.1.113883.11.20.9.22 **STATIC** 2014-04-23 (CONF:1098-32364).
 7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-8299).
 8. **MAY** contain zero or one [0..1] **priorityCode**, which **SHALL** be selected from ValueSet [Act Priority](#) urn:oid:2.16.840.1.113883.1.11.16866 **DYNAMIC** (CONF:1098-8300).

9. **SHOULD** contain zero or more [0..*] **performer** (CONF:1098-8301).
 - a. The performer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-8302).
 - i. This assignedEntity **SHALL** contain exactly one [1..1] **id** (CONF:1098-8303).
 - ii. This assignedEntity **SHALL** contain exactly one [1..1] **addr** (CONF:1098-8304).
 - iii. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:1098-8305).
 - iv. This assignedEntity **SHOULD** contain zero or one [0..1] **representedOrganization** (CONF:1098-8306).
 1. The representedOrganization, if present, **SHOULD** contain zero or more [0..*] **id** (CONF:1098-8307).
 2. The representedOrganization, if present, **MAY** contain zero or more [0..*] **name** (CONF:1098-8308).
 3. The representedOrganization, if present, **SHALL** contain at least one [1..*] **telecom** (CONF:1098-8310).
 4. The representedOrganization, if present, **SHALL** contain at least one [1..*] **addr** (CONF:1098-8309).
10. **SHOULD** contain at least one [1..*] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-32477).
11. **MAY** contain zero or more [0..*] **participant** (CONF:1098-8311) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="LOC"** Location (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8312).
 - b. **SHALL** contain exactly one [1..1] Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32) (CONF:1098-15599).
12. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-8314) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8315).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** true (CONF:1098-8316).
 - c. **SHALL** contain exactly one [1..1] **encounter** (CONF:1098-8317).
 - i. This encounter **SHALL** contain exactly one [1..1] **@classCode="ENC"** Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8318).
 - ii. This encounter **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-8319).
 - iii. This encounter **SHALL** contain exactly one [1..1] **id** (CONF:1098-8320).
 1. Set the encounter ID to the ID of an encounter in another section to signify they are the same encounter (CONF:1098-16849).
13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-8322) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="SUBJ" Has Subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8323).
 - b. **SHALL** contain exactly one [1..1] @inversionInd="true" true (CONF:1098-8324).
 - c. **SHALL** contain exactly one [1..1] Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-31396).
14. **MAY** contain zero or more [0..*] entryRelationship (CONF:1098-8326) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8327).
 - b. **SHALL** contain exactly one [1..1] Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-15601).
15. **MAY** contain zero or more [0..*] entryRelationship (CONF:1098-8329) such that it
- a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8330).
 - b. **SHALL** contain exactly one [1..1] Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09) (CONF:1098-15602).

Table 262: Act Priority

Value Set: Act Priority urn:oid:2.16.840.1.113883.1.11.16866			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.htm			
Code	Code System	Code System OID	Print Name
A	ActPriority	urn:oid:2.16.840.1.113883.5.7	ASAP
CR	ActPriority	urn:oid:2.16.840.1.113883.5.7	Callback results
CS	ActPriority	urn:oid:2.16.840.1.113883.5.7	Callback for scheduling
CSP	ActPriority	urn:oid:2.16.840.1.113883.5.7	Callback placer for scheduling
CSR	ActPriority	urn:oid:2.16.840.1.113883.5.7	Contact recipient for scheduling
EL	ActPriority	urn:oid:2.16.840.1.113883.5.7	Elective
EM	ActPriority	urn:oid:2.16.840.1.113883.5.7	Emergency
P	ActPriority	urn:oid:2.16.840.1.113883.5.7	Preoperative
PRN	ActPriority	urn:oid:2.16.840.1.113883.5.7	As needed
R	ActPriority	urn:oid:2.16.840.1.113883.5.7	Routine
...			

Table 263: ProcedureAct statusCode

Value Set: ProcedureAct statusCode urn:oid:2.16.840.1.113883.11.20.9.22			
Code System: ActStatus 2.16.840.1.113883.5.14			
A ValueSet of HL7 actStatus codes for use with a procedure activity			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
completed	ActStatus	urn:oid:2.16.840.1.113883.5.14	Completed
active	ActStatus	urn:oid:2.16.840.1.113883.5.14	Active
aborted	ActStatus	urn:oid:2.16.840.1.113883.5.14	Aborted
cancelled	ActStatus	urn:oid:2.16.840.1.113883.5.14	Cancelled

Figure 123: Procedure Activity Act Example

```

<act classCode="ACT" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.12" extension="2014-06-09" />
  <id root="1.2.3.4.5.6.7.8" extension="1234567" />
  <code code="274025005" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
displayName="Colonic polypectomy">
    <originalText>
      <reference value="#Proc1" />
    </originalText>
  </code>
  <statusCode code="completed" />
  <effectiveTime value="20110203" />
  <priorityCode code="CR" codeSystem="2.16.840.1.113883.5.7" codeSystemName="ActPriority"
displayName="Callback results" />
  <performer>
    <assignedEntity>
      <id root="2.16.840.1.113883.19" extension="1234" />
      <addr>
        <streetAddressLine>1001 Village Avenue</streetAddressLine>
        <city>Portland</city>
        <state>OR</state>
        <postalCode>99123</postalCode>
        <country>US</country>
      </addr>
      <telecom use="WP" value="tel: +1(555)-555-5000" />
      <representedOrganization>
        <id root="2.16.840.1.113883.19.5" />
        <name>Community Health and Hospitals</name>
        <telecom use="WP" value="tel:+1(555)-555-5000" />
        <addr>
          <streetAddressLine>1001 Village Avenue</streetAddressLine>
          <city>Portland</city>
          <state>OR</state>
          <postalCode>99123</postalCode>
          <country>US</country>
        </addr>
      </representedOrganization>
    </assignedEntity>
  </performer>
  <participant typeCode="LOC">
    <participantRole classCode="SDLOC">
      <templateId root="2.16.840.1.113883.10.20.22.4.32" />
      . . .
    </participantRole>
  </participant>
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.19" extension="2014-06-09" />
      . . .
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="SUBJ" inversionInd="true">
    <act classCode="ACT" moodCode="INT">
      <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
      . . .
    </act>
  </entryRelationship>
</act>

```

</entryRelationship>
</act>

4.48.1 Intervention Performed (V2)

[act: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01 (open)]

Table 264: Intervention Performed (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional) Intervention Adverse Event (V2) (required) Intervention Intolerance (V2) (required)	Patient Preference (V2) Provider Preference (V2) Reason (V2) Result (V2) Status

This template represents the QDM datatype: Intervention, Performed.

This template indicates that an intervention has been completed. An intervention is an influencing force or act to modify a given state of affairs. An intervention is any action carried out (by a healthcare provider or a consumer) to improve or maintain the health of a subject of care with the expectation of producing an outcome. MoodCode is constrained to "EVN".

QDM Attribute: Start Datetime is represented by effectiveTime/low and is the time the intervention begins. QDM Attribute: Stop Datetime is represented by effectiveTime/low and is the time the intervention ends.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 265: Intervention Performed (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01)					
@classCode	1..1	SHALL		1140-27354	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1140-13590	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28072	
templateId	1..1	SHALL		1140-13591	
@root	1..1	SHALL		1140-13592	2.16.840.1.113883.10.20.24.3.32
@extension	1..1	SHALL		1140-27144	
code	1..1	SHALL		1140-27633	
@sdct:valueSet	1..1	SHALL		1140-27634	
statusCode	1..1	SHALL		1140-27362	
@code	1..1	SHALL		1140-27363	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-13611	
low	1..1	SHALL		1140-13612	
high	0..1	MAY		1140-13613	
entryRelationship	0..1	MAY		1140-13598	
@typeCode	1..1	SHALL		1140-13599	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27168	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-13601	
@typeCode	1..1	SHALL		1140-13602	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27169	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

entryRelationship	0..1	MAY		1140-13604	
@typeCode	1..1	SHALL		1140-13605	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27143	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-27356	
@typeCode	1..1	SHALL		1140-27357	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27358	Result (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01)
entryRelationship	0..1	MAY		1140-27359	
@typeCode	1..1	SHALL		1140-27360	REFR
observation	1..1	SHALL		1140-27361	Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93)

1. Conforms to [Procedure Activity Act \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.12:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27354).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13590).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28072).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13591) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.32" (CONF:1140-13592).
 - b. **SHALL** contain exactly one [1..1] **@extension** (CONF:1140-27144).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27633).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27634).
7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-27362).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-27363).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-13611).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-13612).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-13613).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13598) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13599).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27168).
- 10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13601) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13602).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27169).
- 11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13604) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13605).
 - b. **SHALL** contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27143).
- 12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27356) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27357).
 - b. **SHALL** contain exactly one [1..1] Result (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01) (CONF:1140-27358).
- 13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27359) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CONF:1140-27360).
 - b. **SHALL** contain exactly one [1..1] Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:1140-27361).

Figure 124: Intervention Performed (V2) Example

```
<act classCode="ACT" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Procedure Activity Act (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.12"
    extension="2014-06-09"/>

  <!-- Intervention Performed (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.32"
    extension="2014-12-01"/>
  <id root="db734647-fc99-424c-a864-7e3cda82e703"/>
  <code code="419553002"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CD"
    displayName="diet education"
    sdct:valueSet="{ $QDMElementValueSetOID }"/>
  <statusCode code="completed"/>

  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="201203011130"/>
    <!-- QDM Attribute: Stop Datetime -->
    <high value="201203011330"/>
  </effectiveTime>

  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88"
        extension="2014-12-01" />
      .
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Result -->
  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">

    <!-- Conforms to C-CDA R2 Result Observation (V2) -->
```



```

    <templateId root="2.16.840.1.113883.10.20.22.4.2"
      extension="2014-06-09" />

    <!-- Result (QRDA I R3) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.87"
      extension="2014-12-01" />
    ...
  </observation>

</entryRelationship>

<entryRelationship typeCode="REFR">

  <!-- QDM Attribute: Status -->
  <observation classCode="OBS" moodCode="EVN">
    <!-- Status -->
    <templateId root="2.16.840.1.113883.10.20.24.3.93" />
    ...
  </observation>
</entryRelationship>
</act>

```

4.49 Procedure Activity Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.13:2014-06-09
(open)]

Table 266: Procedure Activity Observation (V2) Contexts

Contained By:	Contains:
	Author Participation Indication (V2) Instruction (V2) Medication Activity (V2) Reaction Observation (V2) Service Delivery Location

The common notion of procedure is broader than that specified by the HL7 Version 3 Reference Information Model (RIM). Therefore procedure templates can be represented with various RIM classes: act (e.g., dressing change), observation (e.g., EEG), procedure (e.g., splenectomy).

This template represents procedures that result in new information about the patient that cannot be classified as a procedure according to the HL7 RIM. Examples of these procedures are diagnostic imaging procedures, EEGs, and EKGs.

Table 267: Procedure Activity Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.13:2014-06-09)					
@classCode	1..1	SHALL		1098-8282	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-8237	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-8238	
@root	1..1	SHALL		1098-10520	2.16.840.1.113883.10.20.22.4.13
@extension	1..1	SHALL		1098-32507	2014-06-09
id	1..*	SHALL		1098-8239	
code	1..1	SHALL		1098-19197	
originalText	0..1	SHOULD		1098-19198	
reference	0..1	SHOULD		1098-19199	
@value	0..1	SHOULD		1098-19200	
statusCode	1..1	SHALL		1098-8245	
@code	1..1	SHALL		1098-32365	urn:oid:2.16.840.1.113883.11.20.9.22 (ProcedureAct statusCode)
effectiveTime	0..1	SHOULD		1098-8246	
priorityCode	0..1	MAY		1098-8247	urn:oid:2.16.840.1.113883.1.11.16866 (Act Priority)
value	1..1	SHALL		1098-16846	
@nullFlavor	0..1	MAY		1098-32778	
methodCode	0..1	MAY		1098-8248	
targetSiteCode	0..*	SHOULD		1098-8250	urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 (Body Site)
performer	0..*	SHOULD		1098-8251	
assignedEntity	1..1	SHALL		1098-8252	
id	1..*	SHALL		1098-8253	

addr	1..*	SHALL		1098-8254	
telecom	1..*	SHALL		1098-8255	
representedOrganization	0..1	SHOULD		1098-8256	
id	0..*	SHOULD		1098-8257	
name	0..*	MAY		1098-8258	
telecom	1..1	SHALL		1098-8260	
addr	1..1	SHALL		1098-8259	
author	1..*	SHOULD		1098-32478	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	0..*	MAY		1098-8261	
@typeCode	1..1	SHALL		1098-8262	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = LOC
participantRole	1..1	SHALL		1098-15904	Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32)
entryRelationship	0..*	MAY		1098-8264	
@typeCode	1..1	SHALL		1098-8265	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
@inversionInd	1..1	SHALL		1098-8266	true
encounter	1..1	SHALL		1098-8267	
@classCode	1..1	SHALL		1098-8268	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		1098-8269	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
id	1..1	SHALL		1098-8270	
entryRelationship	0..1	MAY		1098-8272	
@typeCode	1..1	SHALL		1098-8273	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1098-8274	true

act	1..1	SHALL		1098-31394	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.20:2014-06-09)
entryRelationship	0..*	MAY		1098-8276	
@typeCode	1..1	SHALL		1098-8277	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1098-15906	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.19:2014-06-09)
entryRelationship	0..*	MAY		1098-8279	
@typeCode	1..1	SHALL		1098-8280	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
substanceAdministration	1..1	SHALL		1098-15907	Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.16:2014-06-09)
entryRelationship	0..*	MAY		1098-32470	
@typeCode	1..1	SHALL		1098-32471	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
observation	1..1	SHALL		1098-32472	Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.9:2014-06-09)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8282).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-8237).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-8238) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.13" (CONF:1098-10520).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32507).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-8239).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-19197).
 - a. This code **SHOULD** contain zero or one [0..1] **originalText** (CONF:1098-19198).
 - i. The originalText, if present, **SHOULD** contain zero or one [0..1] **reference** (CONF:1098-19199).
 1. The reference, if present, **SHOULD** contain zero or one [0..1] **@value** (CONF:1098-19200).
 - a. This reference/**@value** **SHALL** begin with a '#' and **SHALL** point to its corresponding narrative (using the approach

defined in CDA Release 2, section 4.3.5.1) (CONF:1098-19201).

- b. This @code **SHOULD** be selected from LOINC (CodeSystem: 2.16.840.1.113883.6.1) or SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96), and **MAY** be selected from CPT-4 (CodeSystem: 2.16.840.1.113883.6.12) or ICD10 PCS (CodeSystem: 2.16.840.1.113883.6.4) or CDT-2 (Code System: 2.16.840.1.113883.6.13) (CONF:1098-19202).
- 6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-8245).
 - a. This statusCode **SHALL** contain exactly one [1..1] @code, which **SHALL** be selected from ValueSet [ProcedureAct statusCode](#) urn:oid:2.16.840.1.113883.11.20.9.22 **STATIC** 2014-04-23 (CONF:1098-32365).
- 7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-8246).
- 8. **MAY** contain zero or one [0..1] **priorityCode**, which **SHALL** be selected from ValueSet [Act Priority](#) urn:oid:2.16.840.1.113883.1.11.16866 **DYNAMIC** (CONF:1098-8247).
- 9. **SHALL** contain exactly one [1..1] **value** (CONF:1098-16846).

If nothing is appropriate for value, use an appropriate nullFlavor.

- a. This value **MAY** contain zero or one [0..1] @nullFlavor (CONF:1098-32778).
- 10. **MAY** contain zero or one [0..1] **methodCode** (CONF:1098-8248).
 - a. MethodCode **SHALL NOT** conflict with the method inherent in Observation / code (CONF:1098-8249).
- 11. **SHOULD** contain zero or more [0..*] **targetSiteCode**, which **SHALL** be selected from ValueSet [Body Site](#) urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 **DYNAMIC** (CONF:1098-8250).
- 12. **SHOULD** contain zero or more [0..*] **performer** (CONF:1098-8251).
 - a. The performer, if present, **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-8252).
 - i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1098-8253).
 - ii. This assignedEntity **SHALL** contain at least one [1..*] **addr** (CONF:1098-8254).
 - iii. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:1098-8255).
 - iv. This assignedEntity **SHOULD** contain zero or one [0..1] **representedOrganization** (CONF:1098-8256).
 - 1. The representedOrganization, if present, **SHOULD** contain zero or more [0..*] **id** (CONF:1098-8257).
 - 2. The representedOrganization, if present, **MAY** contain zero or more [0..*] **name** (CONF:1098-8258).
 - 3. The representedOrganization, if present, **SHALL** contain exactly one [1..1] **telecom** (CONF:1098-8260).
 - 4. The representedOrganization, if present, **SHALL** contain exactly one [1..1] **addr** (CONF:1098-8259).

13. **SHOULD** contain at least one [1..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-32478).
14. **MAY** contain zero or more [0..*] **participant** (CONF:1098-8261) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="LOC"** Location (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8262).
 - b. **SHALL** contain exactly one [1..1] [Service Delivery Location](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32) (CONF:1098-15904).
15. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-8264) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8265).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** true (CONF:1098-8266).
 - c. **SHALL** contain exactly one [1..1] **encounter** (CONF:1098-8267).
 - i. This encounter **SHALL** contain exactly one [1..1] **@classCode="ENC"** Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-8268).
 - ii. This encounter **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-8269).
 - iii. This encounter **SHALL** contain exactly one [1..1] **id** (CONF:1098-8270).
 1. Set encounter/id to the id of an encounter in another section to signify they are the same encounter (CONF:1098-16847).
16. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-8272) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has Subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8273).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** true (CONF:1098-8274).
 - c. **SHALL** contain exactly one [1..1] [Instruction \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-31394).
17. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-8276) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8277).
 - b. **SHALL** contain exactly one [1..1] [Indication \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-15906).
18. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-8279) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-8280).
 - b. **SHALL** contain exactly one [1..1] [Medication Activity \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09) (CONF:1098-15907).

19. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-32470) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32471).
 - b. **SHALL** contain exactly one [1..1] [Reaction Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09) (CONF:1098-32472).

Figure 125: Procedure Activity Observation (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.13" extension="2014-06-09" />
  <id extension="123456789" root="2.16.840.1.113883.19" />
  <code code="274025005"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Colonic polypectomy"
    codeSystemName="SNOMED-CT">
    <originalText>
      <reference value="#Proc1" />
    </originalText>
  </code>
  <statusCode code="aborted" />
  <effectiveTime value="20110203" />
  <priorityCode code="CR" codeSystem="2.16.840.1.113883.5.7" codeSystemName="ActPriority"
  displayName="Callback results" />
  <value nullFlavor="NA" />
  <methodCode nullFlavor="UNK" />
  <targetSiteCode code="416949008" codeSystem="2.16.840.1.113883.6.96"
  codeSystemName="SNOMED CT" displayName="Abdomen and pelvis" />
  <performer>
    <assignedEntity>
      <id root="2.16.840.1.113883.19" extension="1234" />
      <addr>
        <streetAddressLine>1001 Village Avenue</streetAddressLine>
        <city>Portland</city>
        <state>OR</state>
        <postalCode>99123</postalCode>
        <country>US</country>
      </addr>
      <telecom use="WP" value="tel: +1(555)-555-5000" />
      <representedOrganization>
        <id root="2.16.840.1.113883.19.5" />
        <name>Community Health and Hospitals</name>
        <telecom use="WP" value="tel:+1(555)-555-5000" />
        <addr>
          <streetAddressLine>1001 Village Avenue</streetAddressLine>
          <city>Portland</city>
          <state>OR</state>
          <postalCode>99123</postalCode>
          <country>US</country>
        </addr>
      </representedOrganization>
    </assignedEntity>
  </performer>
  <participant typeCode="LOC">
    <participantRole classCode="SDLOC">
      <templateId root="2.16.840.1.113883.10.20.22.4.32" />
      . . .
    </participantRole>
  </participant>
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.19" extension="2014-06-09" />
      . . .
    </observation>
  </entryRelationship>
</observation>
```



```

        </observation>
      </entryRelationship>
      <entryRelationship typeCode="SUBJ" inversionInd="true">
        <act classCode="ACT" moodCode="INT">
          <templateId root="2.16.840.1.113883.10.20.22.4.20" extension="2014-06-09" />
          . . .

        </act>
      </entryRelationship>
    </observation>

```

4.49.1 Diagnostic Study Performed (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01 (open)]

Table 268: Diagnostic Study Performed (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional) Diagnostic Study Adverse Event (V2) (required) Diagnostic Study Intolerance (V2) (required)	Facility Location Patient Preference (V2) Provider Preference (V2) Radiation Dosage and Duration (V2) Reason (V2) Result (V2) Status

This template represents the QDM datatype: Diagnostic Study, Performed.

This template indicates that a diagnostic study has been completed. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others. A time/date stamp is required, moodCode is constrained to “EVN” and statusCode is constrained to “completed”.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 269: Diagnostic Study Performed (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01)					
@classCode	1..1	SHALL		1140-27369	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12950	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28063	
templateId	1..1	SHALL		1140-12951	
@root	1..1	SHALL		1140-12952	2.16.840.1.113883.10.20.24.3.18
@extension	1..1	SHALL		1140-27141	2014-12-01
code	1..1	SHALL		1140-27617	
@sdct:valueSet	1..1	SHALL		1140-27618	
statusCode	1..1	SHALL		1140-12956	
@code	1..1	SHALL		1140-12957	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-12958	
low	1..1	SHALL		1140-12959	
high	1..1	SHALL		1140-12960	
participant	0..1	MAY		1140-13031	Facility Location (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.100)
entryRelationship	0..1	MAY		1140-12963	
@typeCode	1..1	SHALL		1140-12964	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27140	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-12966	
@typeCode	1..1	SHALL		1140-12967	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-	Patient Preference (V2) (identifier:

				27170	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
entryRelationship	0..1	MAY		1140-12969	
@typeCode	1..1	SHALL		1140-12970	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27171	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-13389	
@typeCode	1..1	SHALL		1140-13390	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27322	Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01)
entryRelationship	0..1	MAY		1140-27368	
@typeCode	1..1	SHALL		1140-27370	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27371	Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93)
entryRelationship	0..*	MAY		1140-27746	
@typeCode	1..1	SHALL		1140-28139	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27747	Result (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01)

1. Conforms to [Procedure Activity Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.13:2014-06-09).
2. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27369).
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12950).
4. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28063).
5. **SHALL** contain exactly one [1..1] templateId (CONF:1140-12951) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.18" (CONF:1140-12952).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27141).

6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27617).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27618).
7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-12956).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code="completed"** Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-12957).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-12958).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-12959).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] **high** (CONF:1140-12960).
9. **MAY** contain zero or one [0..1] **Facility Location** (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.100) (CONF:1140-13031).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12963) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12964).
 - b. **SHALL** contain exactly one [1..1] **Reason (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27140).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12966) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12967).
 - b. **SHALL** contain exactly one [1..1] **Patient Preference (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27170).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12969) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12970).
 - b. **SHALL** contain exactly one [1..1] **Provider Preference (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27171).
13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-13389) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-13390).
 - b. **SHALL** contain exactly one [1..1] **Radiation Dosage and Duration (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27322).
14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27368) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27370).
 - b. **SHALL** contain exactly one [1..1] **Status** (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:1140-27371).

15. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1140-27746) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28139).
 - b. **SHALL** contain exactly one [1..1] **Result (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01) (CONF:1140-27747).

Figure 126: Diagnostic Study Performed (V2) Example

```
<observation classCode="OBS" moodCode="EVN">

  <!-- Conforms to C-CDA R2 Procedure Activity Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.13"
    extension="2014-06-09" />

  <!-- Diagnostic Study Performed (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.18"
    extension="2014-12-01" />

  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />

  <code code="24605-8"
    codeSystem="2.16.840.1.113883.6.1"
    displayName="Breast Mammogram diagnostic"
    codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID }" />

  <text>Diagnostic Study, Performed: Breast Mammogram Diagnostic</text>

  <statusCode code="completed" />

  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20120329090000+0500" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20120329103000+0500" />
  </effectiveTime>

  <value xsi:type="CD" nullFlavor="NA" />

  <!-- QDM Attribute: Method -->
  <methodCode code="24623002"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Screening mammography"
    codeSystemName="SNOMED CT"
    sdct:valueSet="{ $QDMElementValueSetOID }" />

  <participant typeCode="LOC">
    <!-- Facility Location template -->
    <templateId root="2.16.840.1.113883.10.20.24.3.100" />
    ...
  </participant>

  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
```

```

    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Radiation Dosage and Duration (QRDA I R3) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.91"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <entryRelationship typeCode="REFR">

    <!-- QDM Attribute: Status -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Status -->
      <templateId root="2.16.840.1.113883.10.20.24.3.93" />
      ...
    </observation>
  </entryRelationship>
</observation>

```

4.49.2 Functional Status Performed (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.26:2014-12-01 (open)]

Table 270: Functional Status Performed (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Reason (V2) Result (V2)

This template represents the QDM datatype: Functional Status, Performed.

The Functional Status Performed template represents the completion of a functional status assessment. It does not represent all of the details in a complete functional status assessment. MoodCode is constrained to "EVN" and statusCode is constrained to "completed". If there is a result, it is recorded in value.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 271: Functional Status Performed (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.26:2014-12-01)					
@classCode	1..1	SHALL		1140-27372	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12752	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28067	
templateId	1..1	SHALL		1140-12753	
@root	1..1	SHALL		1140-12754	2.16.840.1.113883.10.20.24.3.26
@extension	1..1	SHALL		1140-27138	2014-12-01
code	1..1	SHALL		1140-27628	
@sdct:valueSet	1..1	SHALL		1140-27629	
statusCode	1..1	SHALL		1140-12758	
@code	1..1	SHALL		1140-12759	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-12760	
low	1..1	SHALL		1140-27560	
high	0..1	MAY		1140-27561	
methodCode	0..1	MAY		1140-27717	
@sdct:valueSet	1..1	SHALL		1140-27718	
entryRelationship	0..1	MAY		1140-12765	
@typeCode	1..1	SHALL		1140-12766	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27137	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-12768	
@typeCode	1..1	SHALL		1140-12769	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON

observation	1..1	SHALL		1140-27172	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12771	
@typeCode	1..1	SHALL		1140-12772	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27173	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.84:2014-12-01)
entryRelationship	0..*	MAY		1140-27373	
@typeCode	1..1	SHALL		1140-27374	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27375	Result (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.87:2014-12-01)

1. Conforms to [Procedure Activity Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.13:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27372).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12752).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28067).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12753) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.26" (CONF:1140-12754).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27138).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27628).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27629).
7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-12758).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-12759).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-12760).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-27560).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-27561).
9. **MAY** contain zero or one [0..1] **methodCode** (CONF:1140-27717).
 - a. The methodCode, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27718).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12765) such that it

- a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12766).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27137).
- 11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12768) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12769).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27172).
- 12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12771) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12772).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27173).
- 13. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1140-27373) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27374).
 - b. **SHALL** contain exactly one [1..1] [Result \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01) (CONF:1140-27375).

Figure 127: Functional Status (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Procedure Activity Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.13" extension="2014-06-09" />
  <!-- Functional Status Performed (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.26" extension="2014-12-01" />
  <id root="7eda6f24-4019-471f-9fe4-6d8c3489916c" />
  <!-- Functional Status Assessment -->
  <code code="72195-1" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    displayName="Physical limitation score [KCCQ]"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <text>Functional Status, Performed: Physical limitation score [KCCQ]: Unable
    to walk</text>
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="201405061000" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="201405061015" />
  </effectiveTime>
  <!-- QDM Attribute: Result -->
  <value xsi:type="CD" code="282145008" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="unable to walk"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute: Method -->
  <methodCode code="72015-1" codeSystem="2.16.840.1.113883.6.1"
    displayName="VR-12 Role physical (RP) score - oblique method"
    codeSystemName="LOINC"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Result -->
  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Result Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2014-06-09" />
      <!-- Result (V2) -->
```

```

    <templateId root="2.16.840.1.113883.10.20.24.3.87" extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</observation>

```

4.49.3 Physical Exam Performed (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.59:2014-12-01 (open)]

Table 272: Physical Exam Performed (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Physical Exam, Performed.

A physical exam has been completed. A time/date stamp is required, moodCode has been constrained to "EVN" and statusCode has been constrained to "completed". If there is a result, it is recorded in value.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 273: Physical Exam Performed (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.59:2014-12-01)					
@classCode	1..1	SHALL		1140-27559	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12643	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28093	
templateId	1..1	SHALL		1140-12644	
@root	1..1	SHALL		1140-12645	2.16.840.1.113883.10.20.24.3.59
@extension	1..1	SHALL		1140-27135	2014-12-01
code	1..1	SHALL		1140-27651	
@sdct:valueSet	1..1	SHALL		1140-27652	
statusCode	1..1	SHALL		1140-12649	
@code	1..1	SHALL		1140-12650	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-12651	
low	1..1	SHALL		1140-12652	
high	1..1	SHALL		1140-12653	
entryRelationship	0..1	MAY		1140-12656	
@typeCode	1..1	SHALL		1140-12657	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27134	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-12659	
@typeCode	1..1	SHALL		1140-12660	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27174	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-	

				12662	
@typeCode	1..1	SHALL		1140-12663	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27175	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

1. Conforms to [Procedure Activity Observation \(V2\)](#) template (identifier: [urn:hl7ii:2.16.840.1.113883.10.20.22.4.13:2014-06-09](#)).
2. **SHALL** contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27559).
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12643).
4. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28093).
5. **SHALL** contain exactly one [1..1] templateId (CONF:1140-12644) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.59" (CONF:1140-12645).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27135).
6. **SHALL** contain exactly one [1..1] code (CONF:1140-27651).
 - a. This code **SHALL** contain exactly one [1..1] @sdct:valueSet (CONF:1140-27652).
7. **SHALL** contain exactly one [1..1] statusCode (CONF:1140-12649).
 - a. This statusCode **SHALL** contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-12650).
8. **SHALL** contain exactly one [1..1] effectiveTime (CONF:1140-12651).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] low (CONF:1140-12652).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] high (CONF:1140-12653).
9. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12656) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12657).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: [urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01](#)) (CONF:1140-27134).
10. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12659) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12660).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: [urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01](#)) (CONF:1140-27174).
11. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12662) such that it

- a. **SHALL** contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12663).
- b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27175).

Figure 128: Physical Exam Performed (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Procedure Activity Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.13" extension="2014-06-09" />
  <!-- Physical Exam Performed (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.59" extension="2014-12-01" />
  <id extension="123456789" root="2.16.840.1.113883.19" />

  <!-- Physical Exam -->
  <code xsi:type="CD" code="29463-7" codeSystem="2.16.840.1.113883.6.1"
    displayName="Body weight" codeSystemName="LOINC"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20120329090000+0500" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20120329103000+0500" />
  </effectiveTime>
  <!-- QDM Attribute: Result -->
  <value xsi:type="PQ" value="79" unit="kg" />
  <!-- QDM Attribute: Method -->
  <methodCode code="8350-1" codeSystem="2.16.840.1.113883.6.1"
    displayName="Body weight Measured --with clothes" codeSystemName="LOINC"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute Anatomical Location Site -->
  <targetSiteCode code="71854001" codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT" displayName="colon" sdtc:valueSet="{ $QDMElementValueSetOID}"
  />
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.50 Procedure Activity Procedure (V2)

[procedure: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09
(open)]

Table 274: Procedure Activity Procedure (V2) Contexts

Contained By:	Contains:
Reaction Observation (V2) (optional)	Author Participation Indication (V2) Instruction (V2) Medication Activity (V2) Product Instance Reaction Observation (V2) Service Delivery Location

The common notion of "procedure" is broader than that specified by the HL7 Version 3 Reference Information Model (RIM). Therefore procedure templates can be represented with various RIM classes: act (e.g., dressing change), observation (e.g., EEG), procedure (e.g., splenectomy).

This template represents procedures whose immediate and primary outcome (post-condition) is the alteration of the physical condition of the patient. Examples of these procedures are an appendectomy, hip replacement, and a creation of a gastrostomy.

This template can be used with a contained Product Instance template to represent a device in or on a patient. In this case, targetSiteCode is used to record the location of the device in or on the patient's body. Equipment supplied to the patient (e.g., pumps, inhalers, wheelchairs) is represented by the Non-Medicinal Supply Activity (V2) template.

Table 275: Procedure Activity Procedure (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
procedure (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09)					
@classCode	1..1	SHALL		1098-7652	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC
@moodCode	1..1	SHALL		1098-7653	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-7654	
@root	1..1	SHALL		1098-10521	2.16.840.1.113883.10.20.22.4.14
@extension	1..1	SHALL		1098-32506	2014-06-09
id	1..*	SHALL		1098-7655	
code	1..1	SHALL		1098-7656	
originalText	0..1	SHOULD		1098-19203	
reference	0..1	SHOULD		1098-19204	
@value	0..1	SHOULD		1098-19205	
statusCode	1..1	SHALL		1098-7661	
@code	1..1	SHALL		1098-32366	urn:oid:2.16.840.1.113883.11.20.9.22 (ProcedureAct statusCode)
effectiveTime	0..1	SHOULD		1098-7662	
priorityCode	0..1	MAY		1098-7668	urn:oid:2.16.840.1.113883.1.11.16866 (Act Priority)
methodCode	0..1	MAY		1098-7670	
targetSiteCode	0..*	SHOULD		1098-7683	
@code	1..1	SHALL		1098-16082	urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 (Body Site)
specimen	0..*	MAY		1098-7697	
specimenRole	1..1	SHALL		1098-7704	
id	0..*	SHOULD		1098-7716	
performer	0..*	SHOULD		1098-7718	

assignedEntity	1..1	SHALL		1098-7720	
id	1..*	SHALL		1098-7722	
addr	1..*	SHALL		1098-7731	
telecom	1..*	SHALL		1098-7732	
representedOrganization	0..1	SHOULD		1098-7733	
id	0..*	SHOULD		1098-7734	
name	0..*	MAY		1098-7735	
telecom	1..1	SHALL		1098-7737	
addr	1..1	SHALL		1098-7736	
author	1..*	SHOULD		1098-32479	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	0..*	MAY		1098-7751	
@typeCode	1..1	SHALL		1098-7752	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = DEV
participantRole	1..1	SHALL		1098-15911	Product Instance (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.37)
participant	0..*	MAY		1098-7765	
@typeCode	1..1	SHALL		1098-7766	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = LOC
participantRole	1..1	SHALL		1098-15912	Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32)
entryRelationship	0..*	MAY		1098-7768	
@typeCode	1..1	SHALL		1098-7769	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
@inversionInd	1..1	SHALL		1098-8009	true
encounter	1..1	SHALL		1098-7770	
@classCode	1..1	SHALL		1098-7771	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC

@moodCode	1..1	SHALL		1098-7772	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
id	1..1	SHALL		1098-7773	
entryRelationship	0..1	MAY		1098-7775	
@typeCode	1..1	SHALL		1098-7776	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1098-7777	true
act	1..1	SHALL		1098-31395	Instruction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.20:2014-06-09)
entryRelationship	0..*	MAY		1098-7779	
@typeCode	1..1	SHALL		1098-7780	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1098-15914	Indication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.19:2014-06-09)
entryRelationship	0..*	MAY		1098-7886	
@typeCode	1..1	SHALL		1098-7887	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
substanceAdministration	1..1	SHALL		1098-15915	Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.16:2014-06-09)
entryRelationship	0..*	MAY		1098-32473	
@typeCode	1..1	SHALL		1098-32474	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = COMP
observation	1..1	SHALL		1098-32475	Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.22.4.9:2014-06-09)

1. **SHALL** contain exactly one [1..1] @classCode="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7652).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7653).
3. **SHALL** contain exactly one [1..1] templateId (CONF:1098-7654) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.14" (CONF:1098-10521).

- b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32506).
- 4. **SHALL** contain at least one [1..*] **id** (CONF:1098-7655).
- 5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-7656).
 - a. This code **SHOULD** contain zero or one [0..1] **originalText** (CONF:1098-19203).
 - i. The originalText, if present, **SHOULD** contain zero or one [0..1] **reference** (CONF:1098-19204).
 - 1. The reference, if present, **SHOULD** contain zero or one [0..1] **@value** (CONF:1098-19205).
 - a. This reference/**@value** **SHALL** begin with a '#' and **SHALL** point to its corresponding narrative (using the approach defined in CDA Release 2, section 4.3.5.1) (CONF:1098-19206).
 - b. This **@code** **SHOULD** be selected from LOINC (CodeSystem: 2.16.840.1.113883.6.1) or SNOMED CT (CodeSystem: 2.16.840.1.113883.6.96), and **MAY** be selected from CPT-4 (CodeSystem: 2.16.840.1.113883.6.12) or ICD10 PCS (CodeSystem: 2.16.840.1.113883.6.4) or CDT-2 (Code System: 2.16.840.1.113883.6.13) (CONF:1098-19207).
- 6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7661).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [ProcedureAct statusCode](#) urn:oid:2.16.840.1.113883.11.20.9.22 **STATIC** 2014-04-23 (CONF:1098-32366).
- 7. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1098-7662).
- 8. **MAY** contain zero or one [0..1] **priorityCode**, which **SHALL** be selected from ValueSet [Act Priority](#) urn:oid:2.16.840.1.113883.1.11.16866 **DYNAMIC** (CONF:1098-7668).
- 9. **MAY** contain zero or one [0..1] **methodCode** (CONF:1098-7670).
 - a. MethodCode **SHALL NOT** conflict with the method inherent in Procedure / code (CONF:1098-7890).

In the case of an implanted medical device, targetSiteCode is used to record the location of the device, in or on the patient's body.

- 10. **SHOULD** contain zero or more [0..*] **targetSiteCode** (CONF:1098-7683).
 - a. The targetSiteCode, if present, **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [Body Site](#) urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 **DYNAMIC** (CONF:1098-16082).
- 11. **MAY** contain zero or more [0..*] **specimen** (CONF:1098-7697).
 - a. The specimen, if present, **SHALL** contain exactly one [1..1] **specimenRole** (CONF:1098-7704).
 - i. This specimenRole **SHOULD** contain zero or more [0..*] **id** (CONF:1098-7716).
 - 1. If you want to indicate that the Procedure and the Results are referring to the same specimen, the Procedure/specimen/specimenRole/id **SHOULD** be set to equal an Organizer/specimen/ specimenRole/id (CONF:1098-29744).

- b. This specimen is for representing specimens obtained from a procedure (CONF:1098-16842).
- 12. **SHOULD** contain zero or more [0..*] **performer** (CONF:1098-7718) such that it
 - a. **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:1098-7720).
 - i. This assignedEntity **SHALL** contain at least one [1..*] **id** (CONF:1098-7722).
 - ii. This assignedEntity **SHALL** contain at least one [1..*] **addr** (CONF:1098-7731).
 - iii. This assignedEntity **SHALL** contain at least one [1..*] **telecom** (CONF:1098-7732).
 - iv. This assignedEntity **SHOULD** contain zero or one [0..1] **representedOrganization** (CONF:1098-7733).
 - 1. The representedOrganization, if present, **SHOULD** contain zero or more [0..*] **id** (CONF:1098-7734).
 - 2. The representedOrganization, if present, **MAY** contain zero or more [0..*] **name** (CONF:1098-7735).
 - 3. The representedOrganization, if present, **SHALL** contain exactly one [1..1] **telecom** (CONF:1098-7737).
 - 4. The representedOrganization, if present, **SHALL** contain exactly one [1..1] **addr** (CONF:1098-7736).
- 13. **SHOULD** contain at least one [1..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-32479).
- 14. **MAY** contain zero or more [0..*] **participant** (CONF:1098-7751) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="DEV"** Device (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7752).
 - b. **SHALL** contain exactly one [1..1] [Product Instance](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.37) (CONF:1098-15911).
- 15. **MAY** contain zero or more [0..*] **participant** (CONF:1098-7765) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="LOC"** Location (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1098-7766).
 - b. **SHALL** contain exactly one [1..1] [Service Delivery Location](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32) (CONF:1098-15912).
- 16. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-7768) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="COMP"** Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7769).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** true (CONF:1098-8009).
 - c. **SHALL** contain exactly one [1..1] **encounter** (CONF:1098-7770).
 - i. This encounter **SHALL** contain exactly one [1..1] **@classCode="ENC"** Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7771).

- ii. This encounter **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7772).
 - iii. This encounter **SHALL** contain exactly one [1..1] id (CONF:1098-7773).
 - 1. Set the encounter ID to the ID of an encounter in another section to signify they are the same encounter (CONF:1098-16843).
- 17. **MAY** contain zero or one [0..1] entryRelationship (CONF:1098-7775) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="SUBJ" Has Subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7776).
 - b. **SHALL** contain exactly one [1..1] @inversionInd="true" true (CONF:1098-7777).
 - c. **SHALL** contain exactly one [1..1] [Instruction \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09) (CONF:1098-31395).
- 18. **MAY** contain zero or more [0..*] entryRelationship (CONF:1098-7779) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has Reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7780).
 - b. **SHALL** contain exactly one [1..1] [Indication \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09) (CONF:1098-15914).
- 19. **MAY** contain zero or more [0..*] entryRelationship (CONF:1098-7886) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7887).
 - b. **SHALL** contain exactly one [1..1] [Medication Activity \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09) (CONF:1098-15915).
- 20. **MAY** contain zero or more [0..*] entryRelationship (CONF:1098-32473) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="COMP" Has Component (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1098-32474).
 - b. **SHALL** contain exactly one [1..1] [Reaction Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09) (CONF:1098-32475).

Figure 129: Procedure Activity Procedure (V2) Example

```
<procedure classCode="PROC" moodCode="EVN">
  <!-- Procedure Activity Procedure V2-->
  <templateId root="2.16.840.1.113883.10.20.22.4.14" extension="2014-06-09" />
  <id root="d5b614bd-01ce-410d-8726-e1fd01dcc72a" />
  <code code="103716009" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
displayName="Stent Placement">
    <originalText>
      <reference value="#Proc1" />
    </originalText>
  </code>
  <statusCode code="completed" />
  <effectiveTime value="20130512" />
  <targetSiteCode code="28273000" displayName="bile duct"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
  <specimen typeCode="SPC">
    <specimenRole classCode="SPEC">
      <id root="a6d7b927-2b70-43c7-bdf3-0e7c4133062c" />
      <specimenPlayingEntity>
        <code code="57259009" codeSystem="2.16.840.1.113883.6.96"
displayName="gallbladder bile" />
      </specimenPlayingEntity>
    </specimenRole>
  </specimen>
  <performer>
    ...
  </performer>
</procedure>
```

4.50.1 Device Applied (V2)

[procedure: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.7:2014-12-01
(open)]

Table 276: Device Applied (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Reason (V2)

This template represents the QDM datatype: Device, Applied.

This datatype indicates that equipment designed to treat, monitor, or diagnose a patient's status is in use (e.g., an antithrombotic device has been placed on the patient's legs to prevent thromboembolism, or a cardiac pacemaker is in place). The statusCode has been constrained to “completed” and there is a participant to represent the device.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 277: Device Applied (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
procedure (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.7:2014-12-01)					
@classCode	1..1	SHALL		1140-28050	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC
@moodCode	1..1	SHALL		1140-28051	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28052	
templateId	1..1	SHALL		1140-12391	
@root	1..1	SHALL		1140-12392	2.16.840.1.113883.10.20.24.3.7
@extension	1..1	SHALL		1140-27132	2014-12-01
code	1..1	SHALL		1140-12414	
@code	1..1	SHALL		1140-12415	360030002
@codeSystem	1..1	SHALL		1140-27536	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
statusCode	1..1	SHALL		1140-12394	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-12395	
low	1..1	SHALL		1140-27537	
high	0..1	MAY		1140-27538	
approachSiteCode	0..1	MAY		1140-27376	
targetSiteCode	0..1	SHOULD		1140-12416	
@sdtc:valueSet	0..1	SHOULD		1140-27730	
translation	0..*	MAY		1140-27535	
@sdtc:valueSet	1..1	SHALL		1140-27731	
participant	1..1	SHALL		1140-12396	
@typeCode	1..1	SHALL		1140-12397	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = DEV
participantRole	1..1	SHALL		1140-12398	

@classCode	1..1	SHALL		1140-12399	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingDevice	1..1	SHALL		1140-12400	
@classCode	1..1	SHALL		1140-12401	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = DEV
code	1..1	SHALL		1140-12402	
@sdtc:valueSet	1..1	SHALL		1140-27584	
entryRelationship	0..1	MAY		1140-12403	
@typeCode	1..1	SHALL		1140-12404	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27131	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-12406	
@typeCode	1..1	SHALL		1140-12407	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27176	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12409	
@nullFlavor	1..1	SHALL		1140-12410	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27177	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.24.3.84:2014-12-01)

1. Conforms to [Procedure Activity Procedure \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09).
2. **SHALL** contain exactly one [1..1] @classCode="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28050).
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28051).
4. **MAY** contain zero or one [0..1] @negationInd (CONF:1140-28052).
5. **SHALL** contain exactly one [1..1] templateId (CONF:1140-12391) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.7" (CONF:1140-12392).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27132).

6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12414).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="360030002" application of device (CONF:1140-12415).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-27536).
7. **SHALL** contain exactly one [1..1] **statusCode**="completed", which **SHALL** be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14) (CONF:1140-12394).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-12395).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-27537).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-27538).
9. **MAY** contain zero or one [0..1] **approachSiteCode** (CONF:1140-27376).

If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code.

10. **SHOULD** contain zero or one [0..1] **targetSiteCode** (CONF:1140-12416).
 - a. The targetSiteCode, if present, **SHOULD** contain zero or one [0..1] **@sdtc:valueSet** (CONF:1140-27730).
 - b. The targetSiteCode, if present, **MAY** contain zero or more [0..*] **translation** (CONF:1140-27535).
 - i. The translation, if present, **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27731).
11. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-12396) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="DEV" device, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12397).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-12398).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="MANU" manufactured product, which **SHALL** be selected from CodeSystem RoleClass (urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12399).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **playingDevice** (CONF:1140-12400).
 1. This playingDevice **SHALL** contain exactly one [1..1] **@classCode**="DEV" device, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12401).
 2. This playingDevice **SHALL** contain exactly one [1..1] **code** (CONF:1140-12402).
 - a. This code **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27584).
 12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12403) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12404).

- b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27131).
- 13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12406) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12407).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27176).
- 14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12409) such that it
 - a. **SHALL** contain exactly one [1..1] **@nullFlavor="RSON"** has reason, which **SHALL** be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12410).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27177).

Figure 130: Device Applied (V2) Example

```
<procedure classCode="PROC" moodCode="EVN">

  <!-- Conforms to C-CDA R2 Procedure Activity Procedure (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.14"
    extension="2014-06-09" />

  <!-- Device Applied (V2) Template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.7"
    extension="2014-12-01" />
  <id root="20ebe7a7-a493-447d-922b-5d98fa8b96da" />
  <code code="360030002"
    displayName="application of device"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20140101" />
    <!-- QDM Attribute: Removal Datetime -->
    <high value="20141201" />
  </effectiveTime>
  <!-- QDM Attribute: Anatomical Approach Site -->
  <approachSiteCode code="14742008"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="large intestinal structure"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <!-- QDM Attribute: Anatomical Location Site -->
  <targetSiteCode code="71854001"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="colon"
    sdct:valueSet="{ $QDMElementValueSetOID }" />
  <participant typeCode="DEV">
    <participantRole classCode="MANU">
      <playingDevice classCode="DEV">
        <!-- Device -->
        <code code="401608003"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED-CT"
          displayName="Suprapubic catheter (physical object)"
          sdct:valueSet="{ $QDMElementValueSetOID }" />
        </playingDevice>
      </participantRole>
    </participant>

    <!-- QDM Attribute: Reason -->
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.88"
          extension="2014-12-01" />
        ...
      </observation>
    </entryRelationship>
  </entryRelationship>
</procedure>
```

```

<!-- QDM Attribute: Patient Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.83"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</procedure>

```

4.50.2 Procedure Performed (V2)

[procedure: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01
(open)]

Table 278: Procedure Performed (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional) Procedure Adverse Event (V2) (required) Procedure Intolerance (V2) (required)	Incision Datetime Patient Preference (V2) Provider Preference (V2) Radiation Dosage and Duration (V2) Reason (V2) Result (V2) Status

This template represents the QDM datatype: Procedure, Performed.

A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment. Some of these procedures are not reimbursed. Note that procedure is distinct from intervention. MoodCode has been constrained to "EVN".

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 279: Procedure Performed (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
procedure (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01)					
@classCode	1..1	SHALL		1140-27308	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = PROC
@moodCode	1..1	SHALL		1140-11261	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28098	
templateId	1..1	SHALL		1140-11262	
@root	1..1	SHALL		1140-11263	2.16.840.1.113883.10.20.24.3.64
@extension	1..1	SHALL		1140-27129	2014-12-01
code	1..1	SHALL		1140-27309	
@sdct:valueSet	1..1	SHALL		1140-27310	
statusCode	1..1	SHALL		1140-27305	
@code	1..1	SHALL		1140-27367	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-11669	
low	1..1	SHALL		1140-11670	
high	1..1	SHALL		1140-11671	
approachSiteCode	0..*	MAY		1140-27311	
@sdct:valueSet	1..1	SHALL		1140-27313	
targetSiteCode	0..*	SHOULD		1140-27312	
@sdct:valueSet	0..1	SHOULD		1140-27314	
translation	0..*	MAY		1140-27765	
@sdct:valueSet	1..1	SHALL		1140-27766	
entryRelationship	0..1	MAY		1140-11283	
@typeCode	1..1	SHALL		1140-11284	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR

observation	1..1	SHALL		1140-27178	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11285	
@typeCode	1..1	SHALL		1140-11286	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27179	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.84:2014-12-01)
entryRelationship	0..1	MAY		1140-11371	
@typeCode	1..1	SHALL		1140-11372	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-11498	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-11410	
@typeCode	1..1	SHALL		1140-11500	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
procedure	1..1	SHALL		1140-14564	Incision Datetime (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.89)
entryRelationship	0..1	MAY		1140-27302	
@typeCode	1..1	SHALL		1140-27303	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27321	Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.91:2014-12-01)
entryRelationship	0..*	MAY		1140-27315	
@typeCode	1..1	SHALL		1140-27316	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27317	Result (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.87:2014-12-01)
entryRelationship	0..1	MAY		1140-27364	
@typeCode	1..1	SHALL		1140-27365	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR

observation	1..1	SHALL		1140-27366	Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93)
-------------	------	-------	--	----------------------------	--

1. Conforms to [Procedure Activity Procedure \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27308).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11261).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28098).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11262) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.64" (CONF:1140-11263).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27129).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27309).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27310).
7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-27305).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-27367).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-11669).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-11670).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] **high** (CONF:1140-11671).
9. **MAY** contain zero or more [0..*] **approachSiteCode** (CONF:1140-27311).
 - a. The approachSiteCode, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27313).

If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code.

10. **SHOULD** contain zero or more [0..*] **targetSiteCode** (CONF:1140-27312).
 - a. The targetSiteCode, if present, **SHOULD** contain zero or one [0..1] **@sdct:valueSet** (CONF:1140-27314).
 - b. The targetSiteCode, if present, **MAY** contain zero or more [0..*] **translation** (CONF:1140-27765).
 - i. The translation, if present, **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27766).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11283) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11284).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27178).

12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11285) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11286).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27179).
13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11371) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11372).
 - b. **SHALL** contain exactly one [1..1] [Reason \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-11498).
14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11410) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11500).
 - b. **SHALL** contain exactly one [1..1] [Incision Datetime](#) (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.89) (CONF:1140-14564).
15. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27302) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27303).
 - b. **SHALL** contain exactly one [1..1] [Radiation Dosage and Duration \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27321).
16. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1140-27315) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27316).
 - b. **SHALL** contain exactly one [1..1] [Result \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01) (CONF:1140-27317).
17. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27364) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27365).
 - b. **SHALL** contain exactly one [1..1] [Status](#) (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:1140-27366).

Figure 131: Procedure Performed (V2) Example

```
<procedure classCode="PROC" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Procedure Activity Procedure (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.14"
    extension="2014-06-09" />

  <!-- Procedure Performed (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.64"
    extension="2014-12-01" />
  <id root="d68b7e32-7810-4f5b-9cc2-acd54b0fd85d" />
  <code code="235326000"
    displayName="Right hemicolectomy"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <text>Procedure, Performed: Right hemicolectomy </text>
  <statusCode code="completed" />
  <effectiveTime>

    <!-- QDM Attribute: Start Datetime -->
    <low value="20120329090000+0500" />

    <!-- QDM Attribute: End Datetime -->
    <high value="20120329103000+0500" />
  </effectiveTime>

  <!-- QDM Attribute: Ordinality -->
  <!-- The following code may not be correct and may change in the future (if
    the relevant eMeasure is changed -->
  <priorityCode code="63161005"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Principal"
    sdct:valueSet="{ $QDMElementValueSetOID}" />

  <!-- QDM Attribute: Method -->
  <methodCode code="446223002"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="Hand assisted laparoscopic right colectomy"
    codeSystemName="SNOMED-CT"
    sdct:valueSet="{ $QDMElementValueSetOID}" />

  <!-- QDM Attribute: Anatomical Approach Site -->
  <approachSiteCode code="14742008"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="large intestinal structure"
    sdct:valueSet="{ $QDMElementValueSetOID}" />

  <!-- QDM Attribute Anatomical Location Site -->
  <targetSiteCode code="71854001"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="colon"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
```

```

<!-- QDM Attribute: Patient Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.83"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attributes: Radiation Dosage and Radiation Duration -->
<entryRelationship typeCode="REFR">
  <observation classCode="OBS" moodCode="EVN">
    <!-- Radiation Dosage and Duration templateId -->
    <templateId root="2.16.840.1.113883.10.20.24.3.91"
      extension="2014-12-01" />
    ..
  </observation>
</entryRelationship>

<!-- QDM Attribute: Incision Datetime -->
<entryRelationship typeCode="REFR">
  <procedure classCode="PROC" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.89" />
    ...
  </procedure>
</entryRelationship>

<!-- QDM Attribute: Reason -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.88"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Result -->
<entryRelationship typeCode="REFR">
  <observation classCode="OBS" moodCode="EVN">
    <!-- Conforms to C-CDA R2 Result Observation (V2) -->
    <templateId root="2.16.840.1.113883.10.20.22.4.2"
      extension="2014-06-09" />
    <!-- Result (QRDA I R3) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.87"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Status -->
<entryRelationship typeCode="REFR">

```

```

<observation classCode="OBS" moodCode="EVN">
  <!-- Status -->
  <templateId root="2.16.840.1.113883.10.20.24.3.93" />
  ...
</observation>
</entryRelationship>
</procedure>

```

4.51 Product Instance

[participantRole: identifier urn:oid:2.16.840.1.113883.10.20.22.4.37 (open)]

Table 280: Product Instance Contexts

Contained By:	Contains:
Procedure Activity Procedure (V2) (optional) Planned Supply (V2) (optional)	

This clinical statement represents a particular device that was placed in a patient or used as part of a procedure or other act. This provides a record of the identifier and other details about the given product that was used. For example, it is important to have a record that indicates not just that a hip prostheses was placed in a patient but that it was a particular hip prostheses number with a unique identifier.

The FDA Amendments Act specifies the creation of a Unique Device Identification (UDI) System that requires the label of devices to bear a unique identifier that will standardize device identification and identify the device through distribution and use.

The FDA permits an issuing agency to designate that their Device Identifier (DI) + Production Identifier (PI) format qualifies as a UDI through a process of accreditation. Currently, there are three FDA-accredited issuing agencies that are allowed to call their format a UDI. These organizations are GS1, HIBCC, and ICCBBA. For additional information on technical formats that qualify as UDI from each of the issuing agencies see the UDI Appendix.

When communicating only the issuing agency device identifier (i.e., subcomponent of the UDI), the use of the issuing agency OID is appropriate. However, when communicating the unique device identifier (DI + PI), the FDA OID (2.16.840.1.113883.3.3719) must be used.

When sending a UDI, populate the participantRole/id/@root with the FDA OID (2.16.840.1.113883.3.3719) and participantRole/id/@extension with the UDI.

When sending a DI, populate the participantRole/id/@root with the appropriate assigning agency OID and participantRole/id/@extension with the DI.

The scopingEntity/id should correspond to FDA or the appropriate issuing agency.

Table 281: Product Instance Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
participantRole (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.37)					
@classCode	1..1	SHALL		81-7900	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
templateId	1..1	SHALL		81-7901	
@root	1..1	SHALL		81-10522	2.16.840.1.113883.10.20.22.4.37
id	1..*	SHALL		81-7902	
playingDevice	1..1	SHALL		81-7903	
code	0..1	SHOULD		81-16837	
scopingEntity	1..1	SHALL		81-7905	
id	1..*	SHALL		81-7908	

1. **SHALL** contain exactly one [1..1] **@classCode**="MANU" Manufactured Product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 **STATIC**) (CONF:81-7900).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-7901) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.37" (CONF:81-10522).
3. **SHALL** contain at least one [1..*] **id** (CONF:81-7902).
4. **SHALL** contain exactly one [1..1] **playingDevice** (CONF:81-7903).
 - a. This playingDevice **SHOULD** contain zero or one [0..1] **code** (CONF:81-16837).
5. **SHALL** contain exactly one [1..1] **scopingEntity** (CONF:81-7905).
 - a. This scopingEntity **SHALL** contain at least one [1..*] **id** (CONF:81-7908).

Figure 132: Product Instance Example

```

<participantRole classCode="MANU">
  <templateId root="2.16.840.1.113883.10.20.22.4.37"/>
  <id root="2.16.840.1.113883.3.3719"
    extension="(01)5102222233336(11)141231(17)150707(10)A213B1(21)1234"
    assigningAuthorityName="FDA"/>
  <playingDevice>
    <code code="90412006" codeSystem="2.16.840.1.113883.6.96"
      displayName="Colonoscope"/>
  </playingDevice>
  <scopingEntity>
    <id root="2.16.840.1.113883.3.3719"/>
  </scopingEntity>
</participantRole>

```

4.52 Prognosis Observation

[observation: identifier urn:oid:2.16.840.1.113883.10.20.22.4.113 (open)]

Table 282: Prognosis Observation Contexts

Contained By:	Contains:
Problem Observation (V2) (optional)	

This template represents the patient's prognosis, which must be associated with a problem observation. It may serve as an alert to scope intervention plans.

The effectiveTime represents the clinically relevant time of the observation. The observation/value is not constrained and can represent the expected life duration in PQ, an anticipated course of the disease in text, or coded term.

Table 283: Prognosis Observation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.113)					
@classCode	1..1	SHALL		1098-29035	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-29036	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-29037	
@root	1..1	SHALL		1098-29038	2.16.840.1.113883.10.20.22.4.113
code	1..1	SHALL		1098-29039	
@code	1..1	SHALL		1098-29468	75328-5
@codeSystem	1..1	SHALL		1098-31349	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1098-31350	
@code	1..1	SHALL		1098-31351	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1098-31123	
value	1..1	SHALL		1098-29469	

1. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-29035).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-29036).
3. **SHALL** contain exactly one [1..1] templateId (CONF:1098-29037) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.113" (CONF:1098-29038).
4. **SHALL** contain exactly one [1..1] **code** (CONF:1098-29039).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="75328-5" Prognosis (CONF:1098-29468).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1098-31349).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-31350).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-31351).
6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-31123).
7. **SHALL** contain exactly one [1..1] **value** (CONF:1098-29469).

Figure 133: Prognosis, Free Text Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Prognosis -->
  <templateId root="2.16.840.1.113883.10.20.22.4.113" />
  <id root="2097c709-291b-4a0f-bef9-ad9b23b3bb43" />
  <code code="75328-5"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Prognosis" />
  <text>
    Presence of a life limiting condition(>50% possibility of death within 2 year)
  </text>
  <statusCode code="completed" />
  <effectiveTime value="20130606" />
  <value xsi:type="ST">Presence of a life limiting condition(>50% possibility of death
  within 2 year</value>
</observation>
```

Figure 134: Prognosis, Coded Example

```
<entryRelationship typeCode="REFR">
  <observation classCode="OBS" moodCode="EVN">
    <!-- Prognosis -->
    <templateId root="2.16.840.1.113883.10.20.22.4.113" />
    <id root="2097c709-291b-4a0f-bef9-ad9b23b3bb43" />
    <code code="75328-5"
      codeSystem="2.16.840.1.113883.6.1"
      codeSystemName="LOINC"
      displayName="Prognosis" />
    <statusCode code="completed" />
    <effectiveTime>
      <low value="20130301" />
    </effectiveTime>
    <value xsi:type="CD" code="67334001" codeSystem="2.16.840.1.113883.6.96"
      displayName="guarded prognosis" codeSystemName="SNOMED CT" />
  </observation>
</entryRelationship>
```

4.53 Provider Care Experience (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.67:2014-12-01
(open)]

Table 284: Provider Care Experience (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype Provider Care Experience.

Provider Care Experience describes information collected from providers about their perception of the care provided.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 285: Provider Care Experience (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.67:2014-12-01)					
@classCode	1..1	SHALL		1140-12479	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-12480	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28100	
templateId	1..1	SHALL		1140-12481	
@root	1..1	SHALL		1140-12482	2.16.840.1.113883.10.20.24.3.67
@extension	1..1	SHALL		1140-27293	2014-12-01
id	1..*	SHALL		1140-12484	
code	1..1	SHALL		1140-12485	
@code	1..1	SHALL		1140-27562	77219-4
@codeSystem	1..1	SHALL		1140-27563	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1140-12486	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-12487	
value	1..1	SHALL	CD	1140-12572	
@sdtc:valueSet	1..1	SHALL		1140-27655	
entryRelationship	1..1	SHALL		1140-12488	
@typeCode	1..1	SHALL		1140-12489	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27291	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	1..1	SHALL		1140-12491	
@typeCode	1..1	SHALL		1140-12492	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = RSON
observation	1..1	SHALL		1140-27292	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" observation, which **SHALL** be selected from CodeSystem HL7ActClass (urn:oid:2.16.840.1.113883.5.6) (CONF:1140-12479).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" event, which **SHALL** be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-12480).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28100).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12481) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.67" (CONF:1140-12482).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27293).
5. **SHALL** contain at least one [1..*] **id** (CONF:1140-12484).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-12485).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="77219-4" Provider satisfaction with healthcare delivery (CONF:1140-27562).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27563).
7. **SHALL** contain exactly one [1..1] **statusCode**="completed", which **SHALL** be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14) (CONF:1140-12486).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-12487).
9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-12572).
 - a. This value **SHALL** contain exactly one [1..1] **@sdtec:valueset** (CONF:1140-27655).
10. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-12488) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" has reason, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12489).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27291).
11. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-12491) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" has reason, which **SHALL** be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12492).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27292).

Figure 135: Provider Care Experience (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Provider Care Experience (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.67"
    extension="2014-12-01" />
  <id root="ffa71406-ab33-4325-822e-0f0b1a4ebb6f" />
  <code code="77219-4"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Provider satisfaction with healthcare delivery" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20110101" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20111231" />
  </effectiveTime>
  <value xsi:type="CD"
    code="445060000"
    displayName="Left against medical advice (finding)"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    sdctc:valueSet="{ $QDMElementValueSetOID }" />

  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.54 Provider Characteristic Observation Assertion

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.114:2014-12-01 (open)]

Table 286: Provider Characteristic Observation Assertion Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	

This template represents the QDM datatype: Provider Characteristic.

Provider characteristics refer to specific factors about a provider. Included are demographics, behavioral factors, social, or cultural factors, available resources and preferences.

This is a pattern that can be used for any simple assertion observation of a provider characteristic.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 287: Provider Characteristic Observation Assertion Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.114:2014-12-01)					
@classCode	1..1	SHALL		1140-27773	OBS
@moodCode	1..1	SHALL		1140-27774	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = EVN
@negationInd	0..1	MAY		1140-28101	
templateId	1..1	SHALL		1140-27768	
@root	1..1	SHALL		1140-27772	2.16.840.1.113883.10.20.24.3.114
@extension	1..1	SHALL		1140-27780	2014-12-01
id	1..*	SHALL		1140-27775	
code	1..1	SHALL		1140-27767	
@code	1..1	SHALL		1140-27771	ASSERTION
@codeSystem	1..1	SHALL		1140-28136	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		1140-27776	completed
effectiveTime	1..1	SHALL		1140-27769	
low	1..1	SHALL		1140-27777	
high	0..1	MAY		1140-27778	
value	1..1	SHALL	CD	1140-27770	
@sdtc:valueSet	1..1	SHALL		1140-27779	
participant	0..1	MAY		1140-28217	
@typeCode	1..1	SHALL		1140-28219	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = IND
participantRole	1..1	SHALL		1140-28218	
id	0..*	SHOULD		1140-28221	
@root	0..1	SHOULD		1140-28222	2.16.840.1.113883.4.6

@extension	0..1	SHOUL D		1140-28223	
code	0..1	SHOUL D		1140-28220	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CONF:1140-27773).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27774).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28101).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-27768) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.114" (CONF:1140-27772).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27780).
5. **SHALL** contain at least one [1..*] **id** (CONF:1140-27775).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27767).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="ASSERTION" Assertion (CONF:1140-27771).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1140-28136).
7. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CONF:1140-27776).
8. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-27769).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-27777).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-27778).
9. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-27770).
 - a. This value **SHALL** contain exactly one [1..1] **@sdtec:valueSet** (CONF:1140-27779).
10. **MAY** contain zero or one [0..1] **participant** (CONF:1140-28217).
 - a. The participant, if present, **SHALL** contain exactly one [1..1] **@typeCode**="IND" individual (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-28219).
 - b. The participant, if present, **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-28218).

This id/@root coupled with the id/@extension represents the individual provider's National Provider Identification number (NPI).

- i. This participantRole **SHOULD** contain zero or more [0..*] **id** (CONF:1140-28221) such that it
 1. **SHOULD** contain zero or one [0..1] **@root**="2.16.840.1.113883.4.6" National Provider ID (CONF:1140-28222).
 2. **SHOULD** contain zero or one [0..1] **@extension** (CONF:1140-28223).
- ii. This participantRole **SHOULD** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy \(HIPAA\)](#) urn:oid:2.16.840.1.114222.4.11.1066 (CONF:1140-28220).

Figure 136: Provider Characteristic Observation Assertion Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Provider Characteristic Observation Assertion -->
  <templateId root="2.16.840.1.113883.10.20.24.3.114"
    extension="2014-12-01" />
  <id root="94de1700-9629-40b4-b56d-a4eac5f48726" />

  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="19950501" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20240101" />
  </effectiveTime>

  <!-- Provider Characteristic -->
  <value xsi:type="CD" code="2135-2"
    codeSystem="2.16.840.1.113883.6.238" codeSystemName="CDCREC"
    displayName="Hispanic or Latino"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <participant typeCode="IND">
    <participantRole>
      <id root="2.16.840.1.113883.4.6" extension="123456789" />
    </participantRole>
  </participant>
</observation>
```

4.55 Provider Preference (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
(open)]

Table 288: Provider Preference (V2) Contexts

Contained By:	Contains:
Encounter Active (V2) (optional) Encounter Performed (V2) (optional) Medication Dispensed (V2) (optional) Intervention Order (V2) (optional) Intervention Recommended (V2) (optional) Medication Active (V2) (optional) Procedure Adverse Event (V2) (optional) Diagnostic Study Adverse Event (V2) (optional) Diagnostic Study Intolerance (V2) (optional) Intervention Adverse Event (V2) (optional) Intervention Intolerance (V2) (optional) Laboratory Test Adverse Event (V2) (optional) Laboratory Test Intolerance (V2) (optional) Procedure Intolerance (V2) (optional) Laboratory Test Performed (V2) (optional) Medication Administered (V2) (optional) Device Adverse Event (V2) (optional) Medication Adverse Effect (V2) (optional) Medication Allergy (V2) (optional) Medication Intolerance (V2) (optional) Device Allergy (V2) (optional) Device Intolerance (V2) (optional) Encounter Order (V2) (optional) Encounter Recommended (V2) (optional) Care Goal (V2) (optional) Diagnostic Study Order (V2) (optional) Diagnostic Study Recommended (V2) (optional) Functional Status Order (V2) (optional) Functional Status Recommended (V2) (optional) Laboratory Test Order (V2) (optional) Laboratory Test Recommended (V2) (optional) Physical Exam Order (V2) (optional) Physical Exam Recommended (V2) (optional) Procedure Order (V2) (optional) Procedure Recommended (V2) (optional) Medication Order (V2) (optional) Device Order (V2) (optional) Device Recommended (V2) (optional) Diagnosis Active (V2) (optional) Diagnosis Inactive (V2) (optional) Diagnosis Resolved (V2) (optional)	

Contained By:	Contains:
Symptom Active (V2) (optional) Symptom Assessed (V2) (optional) Symptom Inactive (V2) (optional) Symptom Resolved (V2) (optional) Procedure Performed (V2) (optional) Device Applied (V2) (optional) Physical Exam Performed (V2) (optional) Functional Status Performed (V2) (optional) Diagnostic Study Performed (V2) (optional) Intervention Performed (V2) (optional) Substance Recommended (V2) (optional) Communication from Patient to Provider (V2) (optional) Communication from Provider to Patient (V2) (optional) Communication from Provider to Provider (V2) (optional) Patient Care Experience (V2) (optional) Provider Care Experience (V2) (required) Risk Category Assessment (V2) (optional) Diagnosis Family History Observation (optional) Transfer From (V2) (optional) Transfer To (V2) (optional)	

This template represents the QDM datatype: Provider Preference.

Provider preferences are choices made by care providers relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals).

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 289: Provider Preference (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)					
@classCode	1..1	SHALL		1140-11126	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11127	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28102	
templateId	1..1	SHALL		1140-11128	
@root	1..1	SHALL		1140-11129	2.16.840.1.113883.10.20.24.3.84
@extension	1..1	SHALL		1140-27294	2014-12-01
id	1..1	SHALL		1140-11356	
code	1..1	SHALL		1140-11131	
@code	1..1	SHALL		1140-11132	77303-6
@codeSystem	1..1	SHALL		1140-27165	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
value	1..1	SHALL	CD	1140-11323	
@sdct:valueSet	1..1	SHALL		1140-27656	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11126).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11127).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28102).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11128) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.84" (CONF:1140-11129).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27294).
5. **SHALL** contain exactly one [1..1] **id** (CONF:1140-11356).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-11131).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="77303-6" Provider preference for care action (CONF:1140-11132).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27165).

7. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD" (CONF:1140-11323).
 - a. This value **SHALL** contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27656).

Figure 137: Provider Preference (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Provider Preference (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.84"
    extension="2014-12-01"/>
  <id root="033afa24-82a2-4298-9dda-dea9e60bf44a"/>
  <code code="77303-6"
    codeSystem="2.16.840.1.113883.6.1"
    displayName="Provider preference for care action"
    codeSystemName="LOINC" />
  <value xsi:type="CD"
    code="11816003"
    codeSystem="2.16.840.1.113883.6.96"
    displayName="diet education"
    codeSystemName="SNOMED CT"
    sdtc:valueSet="{ $QDMElementValueSetOID }"/>
</observation>
```

4.56 Radiation Dosage and Duration (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
(open)]

Table 290: Radiation Dosage and Duration (V2) Contexts

Contained By:	Contains:
Diagnostic Study Adverse Event (V2) (optional) Diagnostic Study Intolerance (V2) (optional) Diagnostic Study Order (V2) (optional) Diagnostic Study Recommended (V2) (optional) Procedure Order (V2) (optional) Procedure Performed (V2) (optional) Diagnostic Study Performed (V2) (optional)	

This template represents the QDM attributes: Radiation Dosage and Radiation Duration.

Radiation Dosage describes the amount and Radiation Duration describes the duration of radiation given (or requested to be given) during a procedure.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 291: Radiation Dosage and Duration (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01)					
@classCode	1..1	SHALL		1140-13276	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-13277	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28103	
templateId	1..1	SHALL		1140-13278	
@root	1..1	SHALL		1140-13279	2.16.840.1.113883.10.20.24.3.91
@extension	1..1	SHALL		1140-27335	2014-12-01
id	1..*	SHALL		1140-13281	
code	1..1	SHALL		1140-13282	
@code	1..1	SHALL		1140-27568	77304-4
@codeSystem	1..1	SHALL		1140-27569	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1140-13284	
@code	1..1	SHALL		1140-13285	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	0..1	SHOULD		1140-13286	
low	0..1	MAY		1140-13292	
width	0..1	MAY		1140-27318	
high	0..1	MAY		1140-13293	
value	0..1	SHOULD		1140-13287	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-13276).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-13277).
3. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28103).
4. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13278) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.91" (CONF:1140-13279).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27335).
5. **SHALL** contain at least one [1..*] **id** (CONF:1140-13281).
6. **SHALL** contain exactly one [1..1] **code** (CONF:1140-13282).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="77304-4" Radiation dose (CONF:1140-27568).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27569).
7. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-13284).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-13285).
8. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:1140-13286).
 - a. The effectiveTime, if present, **MAY** contain zero or one [0..1] **low** (CONF:1140-13292).
 - b. The effectiveTime, if present, **MAY** contain zero or one [0..1] **width** (CONF:1140-27318).
 - c. The effectiveTime, if present, **MAY** contain zero or one [0..1] **high** (CONF:1140-13293).
 - d. One of the following combinations **SHALL** be present: **@width**, **@low** and **@high**, **@low** and **@width** or **@width** and **@high**. **@width** by itself shall only be used when no start or end time is known. For example, when one knows that the duration of radiation needs to be 30 minutes, but one may not yet know when the start time will be eg. in a Procedure Order (CONF:1140-27319).
9. **SHOULD** contain zero or one [0..1] **value** (CONF:1140-13287).

Figure 138: Radiation Dosage and Duration (V2) Width Example

```

<observation classCode="OBS" moodCode="EVN">
  <!-- Radiation Dosage and Duration (V2) templateId -->
  <templateId root="2.16.840.1.113883.10.20.24.3.91"
    extension="2014-12-01"/>
  <id root="fe9b6aab-70ef-4cec-88de-14f8fbaae06c" />
  <code code="77304-4"
    displayName="Radiation dose"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    sdctc:valueSet="{ $QDMElementValueSetOID}" />

  <statusCode code="completed" />

  <!-- QDM Attribute: Radiation Duration -->
  <effectiveTime>
    <width value="30" unit="min" />
  </effectiveTime>
</observation>

```

Figure 139: Radiation Dosage and Duration (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Radiation Dosage and Duration (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.91"
    extension="2014-12-01" />
  <id root="fe9b6aab-70ef-4cec-88de-14f8fbaae06c" />
  <code code="77304-4"
    displayName="Radiation dose"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />

  <statusCode code="completed" />

  <!-- QDM Attribute: Radiation Duration -->
  <effectiveTime>
    <low value="20120329090000+0500" />
    <high value="20120329103000+0500" />
  </effectiveTime>

  <!-- QDM Attribute: Radiation Dosage -->
  <value xsi:type="PQ"
    value="50"
    unit="cGy{total}" />
</observation>
```

4.57 Reaction Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09
(open)]

Table 292: Reaction Observation (V2) Contexts

Contained By:	Contains:
Medication Activity (V2) (optional) Procedure Activity Procedure (V2) (optional) Procedure Activity Observation (V2) (optional) Allergy - Intolerance Observation (V2) (optional) Substance or Device Allergy - Intolerance Observation (V2) (optional)	Medication Activity (V2) Procedure Activity Procedure (V2) Severity Observation (V2)

This clinical statement represents the response to an undesired symptom, finding, etc. due to administered or exposed substance. This reaction may be an undesired symptom, finding, etc. or it could be a desired response to a treatment. A reaction can be defined with respect to its severity, and can have been treated by one or more interventions.

Table 293: Reaction Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09)					
@classCode	1..1	SHALL		1098-7325	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-7326	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-7323	
@root	1..1	SHALL		1098-10523	2.16.840.1.113883.10.20.22.4.9
@extension	1..1	SHALL		1098-32504	2014-06-09
id	1..*	SHALL		1098-7329	
code	1..1	SHALL		1098-16851	
@code	1..1	SHALL		1098-31124	ASSERTION
@codeSystem	1..1	SHALL		1098-32169	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		1098-7328	
@code	1..1	SHALL		1098-19114	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	0..1	SHOULD		1098-7332	
low	0..1	SHOULD		1098-7333	
high	0..1	SHOULD		1098-7334	
value	1..1	SHALL	CD	1098-7335	urn:oid:2.16.840.1.113883.3.88.1.2.3221.7.4 (Problem)
entryRelationship	0..*	MAY		1098-7337	
@typeCode	1..1	SHALL		1098-7338	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
@inversionInd	1..1	SHALL		1098-7343	true
procedure	1..1	SHALL		1098-15920	Procedure Activity Procedure (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09)
entryRelationship	0..*	MAY		1098-	

				7340	
@typeCode	1..1	SHALL		1098-7341	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
@inversionInd	1..1	SHALL		1098-7344	true
substanceAdministration	1..1	SHALL		1098-15921	Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09
entryRelationship	0..1	MAY		1098-7580	
@typeCode	1..1	SHALL		1098-7581	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1098-10375	true
observation	1..1	SHALL		1098-15922	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09

1. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7325).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7326).
3. **SHALL** contain exactly one [1..1] templateId (CONF:1098-7323) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.9" (CONF:1098-10523).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-06-09" (CONF:1098-32504).
4. **SHALL** contain at least one [1..*] id (CONF:1098-7329).
5. **SHALL** contain exactly one [1..1] code (CONF:1098-16851).
 - a. This code **SHALL** contain exactly one [1..1] @code="ASSERTION" (CONF:1098-31124).
 - b. This code **SHALL** contain exactly one [1..1] @codeSystem="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1098-32169).
6. **SHALL** contain exactly one [1..1] statusCode (CONF:1098-7328).
 - a. This statusCode **SHALL** contain exactly one [1..1] @code="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19114).
7. **SHOULD** contain zero or one [0..1] effectiveTime (CONF:1098-7332).
 - a. The effectiveTime, if present, **SHOULD** contain zero or one [0..1] low (CONF:1098-7333).
 - b. The effectiveTime, if present, **SHOULD** contain zero or one [0..1] high (CONF:1098-7334).

8. **SHALL** contain exactly one [1..1] **value** with `@xsi:type="CD"`, where the code **SHALL** be selected from ValueSet [Problem](#) urn:oid:2.16.840.1.113883.3.88.12.3221.7.4 **DYNAMIC** (CONF:1098-7335).
9. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-7337) such that it
 - a. **SHALL** contain exactly one [1..1] `@typeCode="RSON"` Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7338).
 - b. **SHALL** contain exactly one [1..1] `@inversionInd="true"` True (CONF:1098-7343).

This procedure activity is intended to contain information about procedures that were performed in response to an allergy reaction.

- c. **SHALL** contain exactly one [1..1] [Procedure Activity Procedure \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09) (CONF:1098-15920).
10. **MAY** contain zero or more [0..*] **entryRelationship** (CONF:1098-7340) such that it
 - a. **SHALL** contain exactly one [1..1] `@typeCode="RSON"` Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7341).
 - b. **SHALL** contain exactly one [1..1] `@inversionInd="true"` True (CONF:1098-7344).

This medication activity is intended to contain information about medications that were administered in response to an allergy reaction.

- c. **SHALL** contain exactly one [1..1] [Medication Activity \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09) (CONF:1098-15921).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-7580) such that it
 - a. **SHALL** contain exactly one [1..1] `@typeCode="SUBJ"` Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7581).
 - b. **SHALL** contain exactly one [1..1] `@inversionInd="true"` TRUE (CONF:1098-10375).
 - c. **SHALL** contain exactly one [1..1] [Severity Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1098-15922).

Figure 140: Reaction Observation (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014-06-09" />
  <id root="4adc1020-7b14-11db-9fe1-0800200c9a64" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <text>
    <reference value="#reaction1" />
  </text>
  <statusCode code="completed" />
  <effectiveTime>
    <low value="200802260805-0800" />
    <high value="200802281205-0800" />
  </effectiveTime>
  <value xsi:type="CD" code="422587007" codeSystem="2.16.840.1.113883.6.96"
displayName="Nausea" />
  <entryRelationship typeCode="SUBJ" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.4.8" extension="2014-06-09" />
      . . .
    </observation>
  </entryRelationship>
</observation>
```

4.57.1 Reaction (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
(open)]

Table 294: Reaction (V2) Contexts

Contained By:	Contains:
Act Intolerance or Adverse Event Observation (V2) (optional) Diagnostic Study Intolerance (V2) (optional) Device Adverse Event (V2) (required) Medication Adverse Effect (V2) (optional) Medication Allergy (V2) (optional) Medication Intolerance (V2) (optional) Device Allergy (V2) (required) Device Intolerance (V2) (optional)	

This template represents the QDM attribute: Reaction.

This conformant result observation clinical statement requires an effectiveTime. A result observation represents an undesired symptom, finding, etc., due to an administered substance, device, diagnostic study, intervention, laboratory test or procedure. A reaction can be defined with respect to its severity, and can have been treated by one or more interventions.

Table 295: Reaction (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01)					
templateId	1..1	SHALL		1140-11332	
@root	1..1	SHALL		1140-11333	2.16.840.1.113883.10.20.24.3.85
@extension	1..1	SHALL		1140-27008	2014-12-01
effectiveTime	1..1	SHALL		1140-11370	
value	1..1	SHALL	CD	1140-27306	
@sdtc:valueSet	1..1	SHALL		1140-27307	

1. Conforms to [Reaction Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11332) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.85" (CONF:1140-11333).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27008).
3. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-11370).
4. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-27306).
 - a. This value **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27307).

Figure 141: Reaction (V2) Example

```

<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014-06-09" />
  <!-- Reaction (QRDA I V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.85" extension="2014-12-01" />
  <id root="80aed311-8af7-401f-ab7f-727260d2b033" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4"
    codeSystemName="ActCode" displayName="Assertion" />
  <statusCode code="completed" />
  <effectiveTime>
    <low value="20110215" />
  </effectiveTime>
  <value xsi:type="CD" code="404684003" displayName="Nausea"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"
    sdtc:valueSet="{ $QDMElementValueSetOID }" />
</observation>

```

4.58 Reason (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
(open)]

Table 296: Reason (V2) Contexts

Contained By:	Contains:
Encounter Active (V2) (optional) Encounter Performed (V2) (optional) Intervention Order (V2) (optional) Intervention Recommended (V2) (optional) Medication Active (V2) (optional) Laboratory Test Performed (V2) (optional) Medication Administered (V2) (optional) Patient Characteristic Clinical Trial Participant (V2) (optional) Encounter Order (V2) (optional) Encounter Recommended (V2) (optional) Diagnostic Study Order (V2) (optional) Functional Status Order (V2) (optional) Functional Status Recommended (V2) (optional) Laboratory Test Order (V2) (optional) Laboratory Test Recommended (V2) (optional) Physical Exam Order (V2) (optional) Physical Exam Recommended (V2) (optional) Procedure Order (V2) (optional) Procedure Recommended (V2) (optional) Medication Order (V2) (optional) Device Order (V2) (optional) Device Recommended (V2) (optional) Diagnosis Active (V2) (optional) Procedure Performed (V2) (optional) Device Applied (V2) (optional) Physical Exam Performed (V2) (optional) Functional Status Performed (V2) (optional) Diagnostic Study Performed (V2) (optional) Intervention Performed (V2) (optional) Substance Recommended (V2) (optional)	

This template represents the QDM attribute: Reason.

This template describes the thought process or justification for an action or for not performing an action. Examples include patient, system, or medical-related reasons for declining to perform specific actions. Note that the parent template that calls this template can be asserted to have occurred or to not have occurred. Therefore, this template simply adds a reason to some other (possibly negated) act. As such, there is nothing in this template that says whether the parent act did or did not occur.

Table 297: Reason (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)					
@classCode	1..1	SHALL		1140-11357	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11358	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-11359	
@root	1..1	SHALL		1140-11360	2.16.840.1.113883.10.20.24.3.88
@extension	1..1	SHALL		1140-27027	2014-12-01
id	1..*	SHALL		1140-26998	
code	1..1	SHALL		1140-11361	
@code	1..1	SHALL		1140-11362	77301-0
@codeSystem	1..1	SHALL		1140-27028	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1140-11364	
@code	1..1	SHALL		1140-11365	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-11366	
low	1..1	SHALL		1140-27551	
high	0..1	MAY		1140-27552	
value	1..1	SHALL	CD	1140-11367	
@sdtc:valueSet	1..1	SHALL		1140-27657	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11357).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11358).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11359) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.88" (CONF:1140-11360).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27027).
4. **SHALL** contain at least one [1..*] **id** (CONF:1140-26998).

5. **SHALL** contain exactly one [1..1] **code** (CONF:1140-11361).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="77301-0" Reason care action performed or not (CONF:1140-11362).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27028).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-11364).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-11365).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-11366).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-27551).
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1140-27552).
8. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-11367).
 - a. This value **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27657).

Figure 142: Reason (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Reason (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
  <id root="5750a5bb-6a01-4b99-9b1c-cda56b1dce0c" />
  <code code="77301-0"
    codeSystem="2.16.840.1.113883.6.1"
    displayName="Reason care action performed or not"
    codeSystemName="LOINC" />
  <statusCode code="completed" />
  <effectiveTime>
    <low value="20120105"/>
  </effectiveTime>
  <value xsi:type="CD"
    code="57054005"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED CT"
    displayName="Acute myocardial infarction"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
</observation>
```

4.59 Reporting Parameters Act

[act: identifier urn:oid:2.16.840.1.113883.10.20.17.3.8 (open)]

Table 298: Reporting Parameters Act Contexts

Contained By:	Contains:
Reporting Parameters Section (required)	

This template provides information about the reporting time interval and context for the patient data being reported to the receiving organization. The receiving organization may tell the reporting hospitals what information to include, such as dates representing the quarters of the

year for which data are desired. The reporting parameter time interval refers to the data being sent in the document and may differ from the quality measure's measurement period or valid dates for the data set.

Table 299: Reporting Parameters Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:oid:2.16.840.1.113883.10.20.17.3.8)					
@classCode	1..1	SHALL		23-3269	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		23-3270	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		23-18098	
@root	1..1	SHALL		23-18099	2.16.840.1.113883.10.20.17.3.8
id	1..*	SHALL		23-26549	
code	1..1	SHALL		23-3272	
@code	1..1	SHALL		23-26550	252116004
@codeSystem	1..1	SHALL		23-26551	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
effectiveTime	1..1	SHALL		23-3273	
low	1..1	SHALL		23-3274	
high	1..1	SHALL		23-3275	

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:23-3269).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:23-3270).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:23-18098) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.17.3.8" (CONF:23-18099).
4. **SHALL** contain at least one [1..*] **id** (CONF:23-26549).
5. **SHALL** contain exactly one [1..1] **code** (CONF:23-3272).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="252116004" Observation Parameters (CONF:23-26550).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:23-26551).

6. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:23-3273).
 - a. This **effectiveTime** **SHALL** contain exactly one [1..1] **low** (CONF:23-3274).
 - b. This **effectiveTime** **SHALL** contain exactly one [1..1] **high** (CONF:23-3275).

4.60 Result Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.2:2014-06-09
(open)]

Table 300: Result Observation (V2) Contexts

Contained By:	Contains:
	Author Participation

This template represents the results of a laboratory, radiology, or other study performed on a patient.

The result observation includes a **statusCode** to allow recording the status of an observation. “Pending” results (e.g., a test has been run but results have not been reported yet) should be represented as “active” **ActStatus**.

Table 301: Result Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.2:2014-06-09)					
@classCode	1..1	SHALL		1098-7130	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-7131	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-7136	
@root	1..1	SHALL		1098-9138	2.16.840.1.113883.10.20.22.4.2
@extension	1..1	SHALL		1098-32575	2014-06-09
id	1..*	SHALL		1098-7137	
code	1..1	SHALL		1098-7133	urn:oid:2.16.840.1.113883.6.1 (LOINC)
statusCode	1..1	SHALL		1098-7134	
@code	1..1	SHALL		1098-14849	urn:oid:2.16.840.1.113883.11.20.9.39 (Result Status)
effectiveTime	1..1	SHALL		1098-7140	
value	0..1	SHOULD		1098-7143	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT)
interpretationCode	0..*	SHOULD		1098-7147	
@code	1..1	SHALL		1098-32476	urn:oid:2.16.840.1.113883.1.11.78 (Observation Interpretation (HL7))
methodCode	0..1	MAY	SET<CE>	1098-7148	
targetSiteCode	0..1	MAY	SET<CD>	1098-7153	
author	0..*	SHOULD		1098-7149	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
referenceRange	0..*	SHOULD		1098-7150	
observationRange	1..1	SHALL		1098-7151	
code	0..0	SHALL NOT		1098-7152	
value	1..1	SHALL		1098-32175	

1. **SHALL** contain exactly one [1..1] **@classCode="OBS"** Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7130).
2. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7131).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7136) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.22.4.2"** (CONF:1098-9138).
 - b. **SHALL** contain exactly one [1..1] **@extension="2014-06-09"** (CONF:1098-32575).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-7137).
5. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from CodeSystem LOINC (urn:oid:2.16.840.1.113883.6.1) (CONF:1098-7133).
 - a. This code **SHOULD** be a code from the LOINC that identifies the result observation. If an appropriate LOINC code does not exist, then the local code for this result **SHALL** be sent (CONF:1098-19212).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7134).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [Result Status](#) urn:oid:2.16.840.1.113883.11.20.9.39 **STATIC** 2013-08-09 (CONF:1098-14849).
7. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-7140).
Note: Represents the biologically relevant time of the measurement (e.g., the time a blood pressure reading is obtained, the time the blood sample was obtained for a chemistry test).
8. **SHOULD** contain zero or one [0..1] **value**, which **SHOULD** be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96) (CONF:1098-7143).
 - a. If Observation/value is a physical quantity (**xsi:type="PQ"**), the unit of measure **SHALL** be selected from ValueSet UnitsOfMeasureCaseSensitive 2.16.840.1.113883.1.11.12839 **DYNAMIC** (CONF:1098-31484).
 - b. A coded value **MAY** contain zero or more [0..*] translations, which can be used to represent the original results as output by the lab (CONF:1098-31866).
 - c. If Observation/value is a CD (**xsi:type="CD"**) the value **SHOULD** be SNOMED-CT (CONF:1098-32610).
9. **SHOULD** contain zero or more [0..*] **interpretationCode** (CONF:1098-7147).
 - a. The interpretationCode, if present, **SHALL** contain exactly one [1..1] **@code**, which **SHALL** be selected from ValueSet [Observation Interpretation \(HL7\)](#) urn:oid:2.16.840.1.113883.1.11.78 **STATIC** 2014-09-01 (CONF:1098-32476).
10. **MAY** contain zero or one [0..1] **methodCode** (CONF:1098-7148).
11. **MAY** contain zero or one [0..1] **targetSiteCode** (CONF:1098-7153).
12. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-7149).
13. **SHOULD** contain zero or more [0..*] **referenceRange** (CONF:1098-7150).
 - a. The referenceRange, if present, **SHALL** contain exactly one [1..1] **observationRange** (CONF:1098-7151).
 - i. This observationRange **SHALL NOT** contain [0..0] **code** (CONF:1098-7152).

- ii. This observationRange **SHALL** contain exactly one [1..1] **value** (CONF:1098-32175).

Table 302: Result Status

Value Set: Result Status urn:oid:2.16.840.1.113883.11.20.9.39			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
aborted	ActStatus	urn:oid:2.16.840.1.113883.5.14	aborted
active	ActStatus	urn:oid:2.16.840.1.113883.5.14	active
cancelled	ActStatus	urn:oid:2.16.840.1.113883.5.14	cancelled
completed	ActStatus	urn:oid:2.16.840.1.113883.5.14	completed
held	ActStatus	urn:oid:2.16.840.1.113883.5.14	held
suspended	ActStatus	urn:oid:2.16.840.1.113883.5.14	suspended

Table 303: Observation Interpretation (HL7)

Value Set: Observation Interpretation (HL7) urn:oid:2.16.840.1.113883.1.11.78			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.htm			
Code	Code System	Code System OID	Print Name
A	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	abnormal
B	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	better
Carrier	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	carrier
D	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	decreased
HX	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	above high threshold
I	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	intermediate
IND	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	indeterminate
LX	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	below low threshold
MS	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	moderately susceptible
N	HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83	normal
...			

Figure 143: Result Observation (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2014-06-09" />
  <id root="7c0704bb-9c40-41b5-9c7d-26b2d59e234f" />
  <code code="4544-3" displayName="Hematocrit" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" />
  <statusCode code="completed" />
  <effectiveTime value="200803190830-0800" />
  <value xsi:type="PQ" value="35.3" unit="%" />
  <interpretationCode code="L" codeSystem="2.16.840.1.113883.5.83" />
  <author>
    <time value="200803190830-0800" />
    <assignedAuthor>
      <id extension="333444444" root="1.1.1.1.1.1.4" />
      <addr>
        <streetAddressLine>1017 Health Drive</streetAddressLine>
        <city>Portland</city>
        <state>OR</state>
        <postalCode>99123</postalCode>
        <country>US</country>
      </addr>
      <telecom use="WP" value="tel:+1(555)555-1017" />
      <assignedPerson>
        <name>
          <given>William</given>
          <given qualifier="CL">Bill</given>
          <family>Beaker</family>
        </name>
      </assignedPerson>
      <representedOrganization>
        <name>Good Health Laboratory</name>
      </representedOrganization>
    </assignedAuthor>
  </author>
  <referenceRange>
    <observationRange>
      <value xsi:type="IVL_PQ">
        <low value="34.9" unit="%" />
        <high value="44.5" unit="%" />
      </value>
    </observationRange>
  </referenceRange>
</observation>
```

Figure 144: Pending Result Observation (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- ** Result observation ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2014-06-09" />
  <id root="aed821af-3330-4138-97f0-e84dfe5f3c35" />
  <code code="3094-0" displayName="Urea nitrogen, Serum"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" />
  <statusCode code="active" />
  <effectiveTime value="200803200930-0800" />
  <value xsi:type="PQ" nullFlavor="NI" />
</observation>
```

Figure 145: Original Lab Units in <translation> Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- ** Result observation ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2014-06-09" />
  <id root="a69b3d60-2ffd-4440-958b-72b3335ff35f" />
  <code code="6690-2" displayName="Leukocytes" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" />
  <statusCode code="completed" />
  <effectiveTime value="200803190830-0800" />
  <value xsi:type="PQ" value="6.7" unit="10*9/L">
    <translation>
      <originalText>6.7 billion per liter</originalText>
    </translation>
  </value>
  <interpretationCode code="N" codeSystem="2.16.840.1.113883.5.83" />
  <author typeCode="AUT">
    <time value="200803190830-0800" />
    <assignedAuthor>
      <id extension="333444444" root="1.1.1.1.1.1.4" />
    </assignedAuthor>
  </author>
  <referenceRange>
    <observationRange>
      <value xsi:type="IVL_PQ">
        <low value="4.3" unit="10*9/L" />
        <high value="10.8" unit="10*9/L" />
      </value>
    </observationRange>
  </referenceRange>
</observation>
```


4.60.1 Laboratory Test Performed (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01
(open)]

Table 304: Laboratory Test Performed (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional) Laboratory Test Adverse Event (V2) (required) Laboratory Test Intolerance (V2) (required)	Patient Preference (V2) Provider Preference (V2) Reason (V2) Status

This template represents the QDM datatype: Laboratory Test, Performed.

The Laboratory Test Performed template represents the medical procedure of obtaining a sample of blood, urine, or other substance from the body. This template can also describe the result of a study in the clinical laboratory (traditionally chemistry, hematology, microbiology, serology, urinalysis, blood bank). A time/date stamp is required. If there is a result, it is recorded in value.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Table 305: Laboratory Test Performed (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01)					
@classCode	1..1	SHALL		1140-11705	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-11706	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28077	
templateId	1..1	SHALL		1140-11721	
@root	1..1	SHALL		1140-11722	2.16.840.1.113883.10.20.24.3.38
@extension	1..1	SHALL		1140-27021	2014-12-01
id	1..*	SHALL		1140-11707	
code	1..1	SHALL		1140-27637	
@sdtc:valueSet	1..1	SHALL		1140-27638	
statusCode	1..1	SHALL		1140-11709	
@code	1..1	SHALL		1140-11710	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1140-11711	
low	1..1	SHALL		1140-11712	
high	1..1	SHALL		1140-11713	
entryRelationship	0..1	MAY		1140-11718	
@typeCode	1..1	SHALL		1140-11719	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27253	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-11724	
@typeCode	1..1	SHALL		1140-11725	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27254	Provider Preference (V2) (identifier:

					urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
entryRelationship	0..1	MAY		1140-11727	
@typeCode	1..1	SHALL		1140-11728	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27161	Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
entryRelationship	0..1	MAY		1140-27748	
@typeCode	1..1	SHALL		1140-27749	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-27750	Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93)

1. Conforms to [Result Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.2:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-11705).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-11706).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28077).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11721) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.38" (CONF:1140-11722).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27021).
6. **SHALL** contain at least one [1..*] **id** (CONF:1140-11707).
7. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27637).
 - a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27638).
8. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-11709).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-11710).
9. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1140-11711).
 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1140-11712).
 - b. This effectiveTime **SHALL** contain exactly one [1..1] **high** (CONF:1140-11713).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11718) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11719).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27253).

11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11724) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11725).
 - b. **SHALL** contain exactly one [1..1] **Provider Preference (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27254).
12. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-11727) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-11728).
 - b. **SHALL** contain exactly one [1..1] **Reason (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27161).
13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-27748) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="REFR"** Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27749).
 - b. **SHALL** contain exactly one [1..1] **Status** (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:1140-27750).

Figure 146: Laboratory Test Performed (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Result Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2014-06-09" />
  <!-- Laboratory Test Performed (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.38" extension="2014-12-01" />
  <id root="1fad091f-7b4e-4661-b61c-53f9a82515b6" />
  <!-- Laboratory Test -->
  <code code="4544-3" displayName="Hematocrit"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    sdct:valueSet="{ $QDMElementValueSetOID}" />
  <text>Lab Test, Hematocrit</text>
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20120329090000+0500" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20120329103000+0500" />
  </effectiveTime>
  <!-- QDM Attribute: Result -->
  <value xsi:type="PQ" value="35.3" unit="%" />
  <!-- QDM Attribute: Method -->
  <methodCode code="104091002" codeSystem="2.16.840.1.113883.6.96"
    displayName="Hemogram, automated, with RBC, WBC, Hgb, Hct, Indices, Platelet count, and
    manual WBC differential"
    codeSystemName="SNOMED CT" sdct:valueSet="{ $QDMElementValueSetOID}" />
  <!-- QDM Attribute: Status -->
  <entryRelationship typeCode="REFR">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Status -->
      <templateId root="2.16.840.1.113883.10.20.24.3.93" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Patient Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Reason -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.88" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

```

    </entryRelationship>
  </observation>

```

4.60.2 Result (V2)

```

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
(open) ]

```

Table 306: Result (V2) Contexts

Contained By:	Contains:
Procedure Performed (V2) (optional) Functional Status Performed (V2) (optional) Diagnostic Study Performed (V2) (optional) Intervention Performed (V2) (optional)	Status

This template represents the QDM attribute: Result.

This template describes the final consequences or data collected from a sequence of actions or events, or observable entities, including but not limited to procedures, laboratory tests, physical examinations, or diagnostic tests.

Table 307: Result (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01)					
templateId	1..1	SHALL		1140-11672	
@root	1..1	SHALL		1140-11673	2.16.840.1.113883.10.20.24.3.87
@extension	1..1	SHALL		1140-27035	2014-12-01
code	1..1	SHALL		1140-27658	
@sdtc:valueSet	1..1	SHALL		1140-27659	
value	1..1	SHALL		1140-16701	
entryRelationship	0..1	MAY		1140-14171	
@typeCode	1..1	SHALL		1140-14172	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = REFR
observation	1..1	SHALL		1140-14174	Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93

1. Conforms to [Result Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.2:2014-06-09).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-11672) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.87" (CONF:1140-11673).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27035).
3. **SHALL** contain exactly one [1..1] **code** (CONF:1140-27658).
 - a. This code **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27659).
4. **SHALL** contain exactly one [1..1] **value** (CONF:1140-16701).
 - a. If xsi:type=PQ, then **@units** shall be drawn from Unified Code for Units of Measure (UCUM) 2.16.840.1.113883.6.8 code system. Additional constraint is dependent on criteria in the corresponding eMeasure (CONF:1140-16702).
5. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-14171) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14172).
 - b. **SHALL** contain exactly one [1..1] [Status](#) (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:1140-14174).

Figure 147: Result (V2) Example

```

<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Result Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.2" extension="2014-06-09" />
  <!-- Result (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.87" extension="2014-12-01" />
  <id root="ed971e73-c060-4258-8838-69c830254b5a" />
  <code code="36625-2" displayName="Breast Mammogram"
    codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
    sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <statusCode code="completed" />
  <effectiveTime value="200003231430" />
  <value xsi:type="CD" code="369895002" codeSystem="2.16.840.1.113883.6.96"
    displayName="T1: Breast tumor &lt; 2 cm in greatest dimension"
    codeSystemName="SNOMED CT" sdtc:valueSet="{ $QDMElementValueSetOID}" />
  <entryRelationship typeCode="REFR">
    <!-- QDM Attribute: Status (Result)-->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Status -->
      <templateId root="2.16.840.1.113883.10.20.24.3.93" />
      ...
    </observation>
  </entryRelationship>
</observation>

```

4.61 Service Delivery Location

[participantRole: identifier urn:oid:2.16.840.1.113883.10.20.22.4.32 (open)]

Table 308: Service Delivery Location Contexts

Contained By:	Contains:
Procedure Activity Act (V2) (optional) Procedure Activity Procedure (V2) (optional) Procedure Activity Observation (V2) (optional) Encounter Activity (V2) (optional) Planned Encounter (V2) (optional)	

This clinical statement represents the location of a service event where an act, observation or procedure took place.

Table 309: Service Delivery Location Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
participantRole (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.32)					
@classCode	1..1	SHALL		81-7758	urn:oid:2.16.840.1.113883.5.111 (RoleCode) = SDLOC
templateId	1..1	SHALL		81-7635	
@root	1..1	SHALL		81-10524	2.16.840.1.113883.10.20.22.4.32
code	1..1	SHALL		81-16850	urn:oid:2.16.840.1.113883.1.11.20275 (HealthcareServiceLocation)
addr	0..*	SHOULD		81-7760	
telecom	0..*	SHOULD		81-7761	
playingEntity	0..1	MAY		81-7762	
@classCode	1..1	SHALL		81-7763	urn:oid:2.16.840.1.113883.5.41 (EntityClass) = PLC
name	0..1	MAY		81-16037	

1. **SHALL** contain exactly one [1..1] **@classCode**="SDLOC" (CodeSystem: RoleCode urn:oid:2.16.840.1.113883.5.111 **STATIC**) (CONF:81-7758).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:81-7635) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.32" (CONF:81-10524).
3. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [HealthcareServiceLocation](#) urn:oid:2.16.840.1.113883.1.11.20275 **STATIC** (CONF:81-16850).

4. **SHOULD** contain zero or more [0..*] **addr** (CONF:81-7760).
5. **SHOULD** contain zero or more [0..*] **telecom** (CONF:81-7761).
6. **MAY** contain zero or one [0..1] **playingEntity** (CONF:81-7762).
 - a. The playingEntity, if present, **SHALL** contain exactly one [1..1] **@classCode="PLC"** (CodeSystem: EntityClass urn:oid:2.16.840.1.113883.5.41 **STATIC**) (CONF:81-7763).
 - b. The playingEntity, if present, **MAY** contain zero or one [0..1] **name** (CONF:81-16037).

Table 310: HealthcareServiceLocation

Value Set: HealthcareServiceLocation urn:oid:2.16.840.1.113883.1.11.20275

A comprehensive classification of locations and settings where healthcare services are provided. This value set is based on the National Healthcare Safety Network (NHSN) location code system that has been developed over a number of years through CDC's interaction with a variety of healthcare facilities and is intended to serve a variety of reporting needs where coding of healthcare service locations is required.

Value Set Source:

http://phinvads.cdc.gov/vads/SearchAllVocab_search.action?searchOptions.searchText=Healthcare+Service+Location+%28NHSN%29

Code	Code System	Code System OID	Print Name
1162-7	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	24-Hour observation area
1184-1	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	Administrative area
1210-4	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	Adult Mixed Acuity Unit
1099-1	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	Adult step down unit [post-critical care]
1110-6	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	Allergy clinic
1166-8	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	Ambulatory surgical setting
1212-0	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	Any Age Mixed Acuity Unit
1106-4	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	Assisted living area
1145-2	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	Behavioral health clinic
1185-8	HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259	Blood bank
...			

Figure 148: Service Delivery Location Example

```
<participantRole classCode="SDLOC">
  <templateId root="2.16.840.1.113883.10.20.22.4.32"/>
  <code code="1160-1" codeSystem="2.16.840.1.113883.6.259"
    codeSystemName="HealthcareServiceLocation" displayName="Urgent Care Center"/>
  <addr>
    <streetAddressLine>17 Daws Rd.</streetAddressLine>
    <city>Blue Bell</city>
    <state>MA</state>
    <postalCode>02368</postalCode>
    <country>US</country>
  </addr>
  <telecom use="WP" value="tel:+1(555)555-5000"/>
  <playingEntity classCode="PLC">
    <name>Community Health and Hospitals</name>
  </playingEntity>
</participantRole>
```

4.62 Severity Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
(open)]

Table 311: Severity Observation (V2) Contexts

Contained By:	Contains:
Reaction Observation (V2) (optional) Allergy - Intolerance Observation (V2) (optional) Substance or Device Allergy - Intolerance Observation (V2) (optional) Diagnosis Active (V2) (optional) Diagnosis Inactive (V2) (optional) Diagnosis Resolved (V2) (optional) Symptom Active (V2) (optional) Symptom Assessed (V2) (optional) Symptom Inactive (V2) (optional) Symptom Resolved (V2) (optional) Diagnosis Family History Observation (optional)	

This clinical statement represents the gravity of the problem, such as allergy or reaction, in terms of its actual or potential impact on the patient. The Severity Observation can be associated with an Allergy - Intolerance Observation, Substance or Device Allergy - Intolerance Observation, Reaction Observation or all. When the Severity Observation is associated directly with an allergy it characterizes the allergy. When the Severity Observation is associated with a Reaction Observation it characterizes a reaction. A person may manifest many symptoms in a reaction to a single substance, and each reaction to the substance can be represented. However, each reaction observation can have only one severity observation associated with it. For example, someone may have a rash reaction observation as well as an itching reaction observation, but each can have only one level of severity.

Table 312: Severity Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09)					
@classCode	1..1	SHALL		1098-7345	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-7346	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-7347	
@root	1..1	SHALL		1098-10525	2.16.840.1.113883.10.20.22.4.8
@extension	1..1	SHALL		1098-32577	2014-06-09
code	1..1	SHALL		1098-19168	
@code	1..1	SHALL		1098-19169	SEV
@codeSystem	1..1	SHALL		1098-32170	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		1098-7352	
@code	1..1	SHALL		1098-19115	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
value	1..1	SHALL	CD	1098-7356	urn:oid:2.16.840.1.113883.3.88.1.2.3221.6.8 (Problem Severity)

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7345).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7346).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-7347) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.8" (CONF:1098-10525).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-06-09" (CONF:1098-32577).
4. **SHALL** contain exactly one [1..1] **code** (CONF:1098-19168).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="SEV" Severity (CONF:1098-19169).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1098-32170).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-7352).

- a. This statusCode **SHALL** contain exactly one [1..1] @code="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19115).
6. **SHALL** contain exactly one [1..1] value with @xsi:type="CD", where the code **SHALL** be selected from ValueSet [Problem Severity](#) urn:oid:2.16.840.1.113883.3.88.12.3221.6.8 **DYNAMIC** (CONF:1098-7356).

Table 313: Problem Severity

Value Set: Problem Severity urn:oid:2.16.840.1.113883.3.88.12.3221.6.8 This is a description of the level of the severity of the problem. Value Set Source: https://vsac.nlm.nih.gov			
Code	Code System	Code System OID	Print Name
255604002	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Mild (qualifier value)
371923003	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Mild to moderate (qualifier value)
6736007	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Moderate (severity modifier) (qualifier value)
371924009	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Moderate to severe (qualifier value)
24484000	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Severe (severity modifier) (qualifier value)
399166001	SNOMED CT	urn:oid:2.16.840.1.113883.6.96	Fatal (qualifier value)

Figure 149: Severity Observation (V2) Example

```

<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.22.4.8" extension="2014-06-09" />
  <code code="SEV" displayName="Severity Observation" codeSystem="2.16.840.1.113883.5.4"
codeSystemName="ActCode" />
  <text>
    <reference value="#allergyseverity1" />
  </text>
  <statusCode code="completed" />
  <value xsi:type="CD" code="371924009" displayName="Moderate to severe"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
</observation>

```

4.63 Status

[observation: identifier urn:oid:2.16.840.1.113883.10.20.24.3.93 (open)]

Table 314: Status Contexts

Contained By:	Contains:
Laboratory Test Performed (V2) (optional) Result (V2) (optional) Procedure Performed (V2) (optional) Diagnostic Study Performed (V2) (optional) Intervention Performed (V2) (optional) Diagnosis Family History Observation (optional)	

This simple “status” clinical statement should only be used if there is not already a described method for handling status. This template should be used if actStatus code does not convey enough meaning.

Table 315: Status Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93)					
@classCode	1..1	SHALL		67-11879	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		67-11880	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		67-11881	
@root	1..1	SHALL		67-11882	2.16.840.1.113883.10.20.24.3.93
id	1..*	SHALL		67-11884	
code	1..1	SHALL		67-11885	
@code	1..1	SHALL		67-11886	33999-4
@codeSystem	1..1	SHALL		67-27011	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
value	1..1	SHALL		67-11887	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:67-11879).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:67-11880).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:67-11881) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.93" (CONF:67-11882).
4. **SHALL** contain at least one [1..*] **id** (CONF:67-11884).
5. **SHALL** contain exactly one [1..1] **code** (CONF:67-11885).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="33999-4" status (CONF:67-11886).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:67-27011).
6. **SHALL** contain exactly one [1..1] **value** (CONF:67-11887).

Figure 150: Status Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.3.93" />
  <id root="29b776d3-089b-4a7f-b6e9-e45080091922" />
  <code code="33999-4"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    displayName="Status" />
  <value xsi:type="CD"
    code="445665009"
    displayName="Final Report"
    sdctc:valueSet="{ $QDMElementValueSetOID}" />
</observation>
```

4.64 Substance Administered Act

[act: identifier urn:oid:2.16.840.1.113883.10.20.22.4.118 (open)]

Table 316: Substance Administered Act Contexts

Contained By:	Contains:
Medication Activity [V2] (optional)	

This template represents the administration course in a series. The entryRelationship/sequenceNumber in the containing template shows the order of this particular administration in that medication series.

Table 317: Substance Administered Act Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
act (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.118)					
@classCode	1..1	SHALL		1098-31500	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ACT
@moodCode	1..1	SHALL		1098-31501	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-31502	
@root	1..1	SHALL		1098-31503	2.16.840.1.113883.10.20.22.4.118
id	1..*	SHALL		1098-31504	
code	1..1	SHALL		1098-31506	
@code	1..1	SHALL		1098-31507	416118004
@codeSystem	1..1	SHALL		1098-31508	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
statusCode	1..1	SHALL		1098-31505	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	0..1	MAY		1098-31509	

1. **SHALL** contain exactly one [1..1] **@classCode**="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1098-31500).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1098-31501).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-31502) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.118" (CONF:1098-31503).
4. **SHALL** contain at least one [1..*] **id** (CONF:1098-31504).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1098-31506).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="416118004" Administration (CONF:1098-31507).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1098-31508).
6. **SHALL** contain exactly one [1..1] **statusCode**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-31505).
7. **MAY** contain zero or one [0..1] **effectiveTime** (CONF:1098-31509).

Figure 151: Substance Administered Act Example

```
<substanceAdministration classCode="SBADM" moodCode="EVN">
  ...
  <consumable>
    ...
    <code code="43" codeSystem="2.16.840.1.113883.6.59" displayName="Hepatitis B
Vaccine" codeSystemName="CVX" />
  </consumable>
  <entryRelationship typeCode="COMP">
    <!-- This entryRelationship sequenceNumber indicates this is #2 in the series -->
    <sequenceNumber value="2" />
    <act classCode="ACT" moodCode="EVN">
      <!-- Substance Administered Act Template -->
      <templateId root="2.16.840.1.113883.10.20.22.4.118" />
      <id root="df8908d0-40f2-11e3-aa6e-0800200c9a66" />
      <code code="416118004" displayName="administration"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED-CT" />
      <statusCode code="completed" />
      <effectiveTime value="19991101" />
    </act>
  </entryRelationship>
  ...
</substanceAdministration>
```

4.65 Substance or Device Allergy - Intolerance Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09
(open)]

Table 318: Substance or Device Allergy - Intolerance Observation (V2) Contexts

Contained By:	Contains:
	Allergy Status Observation (DEPRECATED) Author Participation Reaction Observation (V2) Severity Observation (V2)

This template reflects a discrete observation about a patient's allergy or intolerance to a substance or device. Because it is a discrete observation, it will have a statusCode of "completed". The effectiveTime, also referred to as the 'biologically relevant time' is the time at which the observation holds for the patient. For a provider seeing a patient in the clinic today, observing a history of penicillin allergy that developed five years ago, the effectiveTime is five years ago.

The effectiveTime of the Substance or Device Allergy - Intolerance Observation is the definitive indication of whether or not the underlying allergy/intolerance is resolved. If known to be resolved, then an effectiveTime/high would be present. If the date of resolution is not known, then effectiveTime/high will be present with a nullFlavor of "UNK".

Table 319: Substance or Device Allergy - Intolerance Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09)					
@classCode	1..1	SHALL		1098-16303	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-16304	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1098-16305	
@root	1..1	SHALL		1098-16306	2.16.840.1.113883.10.20.24.3.90
@extension	1..1	SHALL		1098-32527	2014-06-09
id	1..*	SHALL		1098-16307	
code	1..1	SHALL		1098-16345	
@code	1..1	SHALL		1098-16346	ASSERTION
@codeSystem	1..1	SHALL		1098-32171	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		1098-16308	
@code	1..1	SHALL		1098-26354	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1098-16309	
low	1..1	SHALL		1098-31536	
high	0..1	MAY		1098-31537	
value	1..1	SHALL	CD	1098-16312	
@code	1..1	SHALL	CS	1098-16317	urn:oid:2.16.840.1.113883.3.88.12.3221.6.2 (Allergy/Adverse Event Type)
author	0..*	SHOULD		1098-31144	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	0..*	SHOULD		1098-16318	
@typeCode	1..1	SHALL		1098-16319	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CSM
participantRole	1..1	SHALL		1098-16320	

@classCode	1..1	SHALL		1098-16321	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingEntity	1..1	SHALL		1098-16322	
@classCode	1..1	SHALL		1098-16323	urn:oid:2.16.840.1.113883.5.41 (EntityClass) = MMAT
code	1..1	SHALL		1098-16324	urn:oid:2.16.840.1.113762.1.4.10 10.1 (Substance-Reactant for Intolerance)
entryRelationship	0..1	MAY		1098-16333	
@typeCode	1..1	SHALL		1098-16335	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1098-16334	true
observation	1..1	SHALL		1098-16336	Allergy Status Observation (DEPRECATED) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.22.4.28:2014-06-09)
entryRelationship	0..*	SHOULD		1098-16337	
@typeCode	1..1	SHALL		1098-16339	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = MFST
@inversionInd	1..1	SHALL		1098-16338	true
observation	1..1	SHALL		1098-16340	Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.22.4.9:2014-06-09)
entryRelationship	0..1	MAY		1098-16341	
@typeCode	1..1	SHALL		1098-16342	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1098-16343	true
observation	1..1	SHALL		1098-16344	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.22.4.8:2014-06-09)

1. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-16303).
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-16304).
3. **SHALL** contain exactly one [1..1] templateId (CONF:1098-16305) such that it

- a. **SHALL** contain exactly one [1..1] `@root="2.16.840.1.113883.10.20.24.3.90"` (CONF:1098-16306).
 - b. **SHALL** contain exactly one [1..1] `@extension="2014-06-09"` (CONF:1098-32527).
4. **SHALL** contain at least one [1..*] `id` (CONF:1098-16307).
5. **SHALL** contain exactly one [1..1] `code` (CONF:1098-16345).
 - a. This code **SHALL** contain exactly one [1..1] `@code="ASSERTION"` Assertion (CONF:1098-16346).
 - b. This code **SHALL** contain exactly one [1..1] `@codeSystem="2.16.840.1.113883.5.4"` (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1098-32171).
6. **SHALL** contain exactly one [1..1] `statusCode` (CONF:1098-16308).
 - a. This statusCode **SHALL** contain exactly one [1..1] `@code="completed"` Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1098-26354).
7. **SHALL** contain exactly one [1..1] `effectiveTime` (CONF:1098-16309).
 Note: The effectiveTime/low (a.k.a. "onset date") asserts when the allergy/intolerance became biologically active. The effectiveTime/high (a.k.a. "resolution date") asserts when the allergy/intolerance became biologically resolved.

If the allergy/intolerance is known to be resolved, but the date of resolution is not known, then the high element SHALL be present, and the nullFlavor attribute SHALL be set to 'UNK'.

- a. This effectiveTime **SHALL** contain exactly one [1..1] `low` (CONF:1098-31536).
 - b. This effectiveTime **MAY** contain zero or one [0..1] `high` (CONF:1098-31537).
8. **SHALL** contain exactly one [1..1] `value` with `@xsi:type="CD"` (CONF:1098-16312).
 - a. This value **SHALL** contain exactly one [1..1] `@code`, which **SHALL** be selected from ValueSet [Allergy/Adverse Event Type](#) urn:oid:2.16.840.1.113883.3.88.12.3221.6.2 **DYNAMIC** (CONF:1098-16317).
 Note: Many systems will simply assign a fixed value here (e.g., "allergy to substance").
9. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-31144).
10. **SHOULD** contain zero or more [0..*] `participant` (CONF:1098-16318) such that it
 - a. **SHALL** contain exactly one [1..1] `@typeCode="CSM"` Consumable (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1098-16319).
 - b. **SHALL** contain exactly one [1..1] `participantRole` (CONF:1098-16320).
 - i. This participantRole **SHALL** contain exactly one [1..1] `@classCode="MANU"` Manufactured Product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 **STATIC**) (CONF:1098-16321).
 - ii. This participantRole **SHALL** contain exactly one [1..1] `playingEntity` (CONF:1098-16322).
 1. This playingEntity **SHALL** contain exactly one [1..1] `@classCode="MMAT"` Manufactured Material (CodeSystem:

EntityClass urn:oid:2.16.840.1.113883.5.41 **STATIC**)
(CONF:1098-16323).

2. This playingEntity **SHALL** contain exactly one [1..1] **code**, which **MAY** be selected from ValueSet Substance-Reactant for Intolerance urn:oid:2.16.840.1.113762.1.4.1010.1 **DYNAMIC** (CONF:1098-16324).
11. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-16333) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-16335).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** True (CONF:1098-16334).
 - c. **SHALL** contain exactly one [1..1] Allergy Status Observation (DEPRECATED) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.28:2014-06-09) (CONF:1098-16336).
12. **SHOULD** contain zero or more [0..*] **entryRelationship** (CONF:1098-16337) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="MFST"** Is Manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-16339).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** True (CONF:1098-16338).
 - c. **SHALL** contain exactly one [1..1] Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09) (CONF:1098-16340).
13. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-16341) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has Subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-16342).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** True (CONF:1098-16343).
 - c. **SHALL** contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1098-16344).

Table 320: Substance-Reactant for Intolerance

Value Set: Substance-Reactant for Intolerance urn:oid:2.16.840.1.113762.1.4.1010.1 A substance or other type of agent (e.g., sunshine) that may be associated with an intolerance reaction event or a propensity to such an event. These concepts are expected to be at a more general level of abstraction (ingredients versus more specific formulations). This value set is quite general and includes concepts that may never cause an adverse event, particularly the included SNOMED CT concepts. The code system-specific value sets in this grouping value set are intended to provide broad coverage of all kinds of agents, but the expectation for use is that the chosen concept identifier for a substance should be appropriately specific and drawn from the available code systems in the following priority order: NDFRT, then RXNORM, then UNII, then SNOMED CT. This overarching grouping value set is intended to support identification of drug classes, individual medication ingredients, foods, general substances and environmental entities. Value set intensionally defined as a GROUPING made up of: Value Set: Medication Drug Class (2.16.840.1.113883.3.88.12.80.18) (NDFRT drug class codes); Value Set: Clinical Drug Ingredient (2.16.840.1.113762.1.4.1010.7) (RXNORM ingredient codes); Value Set: Unique Ingredient Identifier - Complete Set (2.16.840.1.113883.3.88.12.80.20) (UNII ingredient codes); Value Set: Substance Other Than Clinical Drug (2.16.840.1.113762.1.4.1010.9) (SNOMED CT substance codes). Value Set Source: http://www.hl7.org			
Code	Code System	Code System OID	Print Name
18867	RxNorm	urn:oid:2.16.840.1.113883.6.88	benazepril
196500	RxNorm	urn:oid:2.16.840.1.113883.6.88	Coversyl
83515	RxNorm	urn:oid:2.16.840.1.113883.6.88	eprosartan
237057	RxNorm	urn:oid:2.16.840.1.113883.6.88	lepirudin
C24814	NDFRT	urn:oid:2.16.840.1.113883.3.3.26.1.5	Acyclovir
N0000168624	NDFRT	urn:oid:2.16.840.1.113883.3.3.26.1.5	Azacosterol
N0000006690	NDFRT	urn:oid:2.16.840.1.113883.3.3.26.1.5	Soybean Oil
QE1QX6B99R	Unique Ingredient Identifier (UNII)	urn:oid:2.16.840.1.113883.4.9	PEANUT
...			

4.65.1 Allergy - Intolerance Observation (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09
(open)]

Table 321: Allergy - Intolerance Observation (V2) Contexts

Contained By:	Contains:
	Author Participation Reaction Observation (V2) Severity Observation (V2)

This template reflects a discrete observation about a patient's allergy or intolerance. Because it is a discrete observation, it will have a statusCode of "completed". The effectiveTime, also referred to as the "biologically relevant time" is the time at which the observation holds for the patient. For a provider seeing a patient in the clinic today, observing a history of penicillin allergy that developed five years ago, the effectiveTime is five years ago.

The effectiveTime of the Allergy - Intolerance Observation is the definitive indication of whether or not the underlying allergy/intolerance is resolved. If known to be resolved, then an effectiveTime/high would be present. If the date of resolution is not known, then effectiveTime/high will be present with a nullFlavor of "UNK".

The agent responsible for an allergy or adverse reaction is not always a manufactured material (for example, food allergies), nor is it necessarily consumed. The following constraints reflect limitations in the base CDA R2 specification, and should be used to represent any type of responsible agent, i.e., use playingEntity classCode = "MMAT" for all agents, manufactured or not.

Table 322: Allergy - Intolerance Observation (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09)					
@classCode	1..1	SHALL		1098-7379	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1098-7380	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1098-31526	
templateId	1..1	SHALL		1098-7381	
@root	1..1	SHALL		1098-10488	2.16.840.1.113883.10.20.22.4.7
@extension	1..1	SHALL		1098-32526	2014-06-09
id	1..*	SHALL		1098-7382	
code	1..1	SHALL		1098-15947	
@code	1..1	SHALL		1098-15948	ASSERTION
@codeSystem	1..1	SHALL		1098-32153	urn:oid:2.16.840.1.113883.5.4 (ActCode) = 2.16.840.1.113883.5.4
statusCode	1..1	SHALL		1098-19084	
@code	1..1	SHALL		1098-19085	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
effectiveTime	1..1	SHALL		1098-7387	
low	1..1	SHALL		1098-31538	
high	0..1	MAY		1098-31539	
value	1..1	SHALL	CD	1098-7390	urn:oid:2.16.840.1.113883.3.88.1.2.3221.6.2 (Allergy/Adverse Event Type)
author	0..*	SHOULD		1098-31143	Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
participant	1..1	SHALL		1098-7402	
@typeCode	1..1	SHALL		1098-7403	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CSM
participantRole	1..1	SHALL		1098-7404	

@classCode	1..1	SHALL		1098-7405	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingEntity	1..1	SHALL		1098-7406	
@classCode	1..1	SHALL		1098-7407	urn:oid:2.16.840.1.113883.5.41 (EntityClass) = MMAT
code	1..1	SHALL		1098-7419	urn:oid:2.16.840.1.113762.1.4.10 10.1 (Substance-Reactant for Intolerance)
entryRelationship	0..*	SHOULD		1098-7447	
@typeCode	1..1	SHALL		1098-7907	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = MFST
@inversionInd	1..1	SHALL		1098-7449	true
observation	1..1	SHALL		1098-15955	Reaction Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.22.4.9:2014-06-09)
entryRelationship	0..1	MAY		1098-9961	
@typeCode	1..1	SHALL		1098-9962	urn:oid:2.16.840.1.113883.5.100 2 (HL7ActRelationshipType) = SUBJ
@inversionInd	1..1	SHALL		1098-9964	true
observation	1..1	SHALL		1098-15956	Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2 0.22.4.8:2014-06-09)

1. Conforms to [Substance or Device Allergy - Intolerance Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09).
2. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 **STATIC**) (CONF:1098-7379).
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 **STATIC**) (CONF:1098-7380).
4. **MAY** contain zero or one [0..1] @negationInd (CONF:1098-31526).
Note: Use negationInd="true" to indicate that the allergy was not observed.
5. **SHALL** contain exactly one [1..1] templateId (CONF:1098-7381) such that it
 - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.22.4.7" (CONF:1098-10488).
 - b. **SHALL** contain exactly one [1..1] @extension="2014-06-09" (CONF:1098-32526).
6. **SHALL** contain at least one [1..*] id (CONF:1098-7382).
7. **SHALL** contain exactly one [1..1] code (CONF:1098-15947).

- a. This code **SHALL** contain exactly one [1..1] **@code="ASSERTION"** Assertion (CONF:1098-15948).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem="2.16.840.1.113883.5.4"** (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1098-32153).
8. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1098-19084).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code="completed"** Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 **STATIC**) (CONF:1098-19085).
9. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:1098-7387).

Note: If the allergy/intolerance is known to be resolved, but the date of resolution is not known, then the high element SHALL be present, and the nullFlavor attribute SHALL be set to 'UNK'.

 - a. This effectiveTime **SHALL** contain exactly one [1..1] **low** (CONF:1098-31538).

Note: The effectiveTime/low (a.k.a. "onset date") asserts when the allergy/intolerance became biologically active.
 - b. This effectiveTime **MAY** contain zero or one [0..1] **high** (CONF:1098-31539).

Note: The effectiveTime/high (a.k.a. "resolution date") asserts when the allergy/intolerance became biologically resolved.
10. **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"**, where the code **SHALL** be selected from ValueSet [Allergy/Adverse Event Type](#) urn:oid:2.16.840.1.113883.3.88.12.3221.6.2 **DYNAMIC** (CONF:1098-7390).

Note: The consumable participant points to the precise allergen or substance of intolerance. Because the consumable and the reaction are more clinically relevant than a categorization of the allergy/adverse event type, many systems will simply assign a fixed value here (e.g., "allergy to substance").
11. **SHOULD** contain zero or more [0..*] [Author Participation](#) (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119) (CONF:1098-31143).
12. **SHALL** contain exactly one [1..1] **participant** (CONF:1098-7402) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="CSM"** Consumable (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1098-7403).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1098-7404).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode="MANU"** Manufactured Product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 **STATIC**) (CONF:1098-7405).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:1098-7406).
 1. This playingEntity **SHALL** contain exactly one [1..1] **@classCode="MMAT"** Manufactured Material (CodeSystem: EntityClass urn:oid:2.16.840.1.113883.5.41 **STATIC**) (CONF:1098-7407).
 2. This playingEntity **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from ValueSet [Substance-Reactant for Intolerance](#) urn:oid:2.16.840.1.113762.1.4.1010.1 **DYNAMIC** (CONF:1098-7419).

13. **SHOULD** contain zero or more [0..*] **entryRelationship** (CONF:1098-7447) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="MFST"** Is Manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-7907).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** True (CONF:1098-7449).
 - c. **SHALL** contain exactly one [1..1] [Reaction Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09) (CONF:1098-15955).
14. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1098-9961) such that it
- a. **SHALL** contain exactly one [1..1] **@typeCode="SUBJ"** Has Subject (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 **STATIC**) (CONF:1098-9962).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** True (CONF:1098-9964).
 - c. **SHALL** contain exactly one [1..1] [Severity Observation \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1098-15956).

Figure 152: Allergy - Intolerance Observation (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- ** Allergy observation ** -->
  <templateId root="2.16.840.1.113883.10.20.22.4.7" extension="2014-06-09" />
  <id root="901db0f8-9355-4794-81cd-fd951ef07917" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <!-- Observation statusCode represents the status of the act of observing -->
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset of the allergy -->
    <low nullFlavor="UNK" />
    <!-- The high value reflects when the allergy was known to be resolved
        (and will generally be absent) -->
  </effectiveTime>
  <value xsi:type="CD" code="419199007" displayName="Allergy to substance"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
  <author>
    <time value="201010110915-0800" />
    <assignedAuthor>
      <id extension="222223333" root="1.1.1.1.1.1.3" />
    </assignedAuthor>
  </author>
  <participant typeCode="CSM">
    <participantRole classCode="MANU">
      <playingEntity classCode="MMAT">
        <code code="2670" displayName="Codeine" codeSystem="2.16.840.1.113883.6.88"
codeSystemName="RxNorm" />
      </playingEntity>
    </participantRole>
  </participant>
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <!-- ** Reaction observation ** -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014-06-09" />
      <id root="38c63dea-1a43-4f84-ab71-1ffd04f6aldd" />
      <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
      <text>
        <reference value="#reaction2" />
      </text>
      <statusCode code="completed" />
      <effectiveTime>
        <low nullFlavor="UNK" />
      </effectiveTime>
      <value xsi:type="CD" code="56018004" displayName="Wheezing"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="SUBJ" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <!-- ** Severity observation ** -->
      <templateId root="2.16.840.1.113883.10.20.22.4.8" extension="2014-06-09" />
      <code code="SEV" displayName="Severity Observation"
codeSystem="2.16.840.1.113883.5.4" codeSystemName="ActCode" />
      <text>
        <reference value="#allergyseverity2" />
      </text>
    </observation>
  </entryRelationship>
</observation>
```

```

        <statusCode code="completed" />
        <value xsi:type="CD" code="255604002" displayName="Mild"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
    </observation>
</entryRelationship>
</observation>

```

4.65.2 Medication Adverse Effect (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.43:2014-12-01
(open)]

Table 323: Medication Adverse Effect (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Reaction (V2)

This template represents the QDM datatypes: Medication, Adverse Effect and Substance, Adverse Event.

This datatype represents an adverse effect from a medication. A medication adverse effect refers to a condition that occurs when medications or biological substances are administered and the condition is not considered an allergy. Examples of this are: electrolyte imbalances from diuretics administration, infections from immunosuppressant drugs, and tumor development from medications for autoimmune diseases.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name and its members are subject to change.

Table 324: Medication Adverse Effect (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.43:2014-12-01)					
@classCode	1..1	SHALL		1140-14110	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-14111	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28081	
templateId	1..1	SHALL		1140-14112	
@root	1..1	SHALL		1140-14113	2.16.840.1.113883.10.20.24.3.43
@extension	1..1	SHALL		1140-27030	2014-12-01
value	1..1	SHALL	CD	1140-14134	
@code	1..1	SHALL		1140-14135	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 62014003
participant	1..1	SHALL		1140-27964	
@typeCode	1..1	SHALL		1140-27968	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CSM
participantRole	1..1	SHALL		1140-27965	
@classCode	1..1	SHALL		1140-27969	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingEntity	1..1	SHALL		1140-27966	
@classCode	1..1	SHALL		1140-27970	urn:oid:2.16.840.1.113883.5.41 (EntityClass) = MMAT
code	1..1	SHALL		1140-27967	
@sdtc:valueSet	1..1	SHALL		1140-27971	
entryRelationship	0..1	MAY		1140-14124	
@typeCode	1..1	SHALL		1140-14125	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27235	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-14127	
@typeCode	1..1	SHALL		1140-	urn:oid:2.16.840.1.113883.5.100

				14128	2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27236	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.84:2014-12-01)
entryRelationship	0..1	SHOULD		1140-14130	
@typeCode	1..1	SHALL		1140-14131	MFST
@inversionInd	1..1	SHALL		1140-14132	true
observation	1..1	SHALL		1140-27124	Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.85:2014-12-01)

1. Conforms to [Allergy - Intolerance Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-14110).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-14111).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28081).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-14112) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.43" (CONF:1140-14113).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27030).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-14134).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="62014003" Adverse drug effect (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-14135).
7. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-27964) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CSM" Consumable (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-27968).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-27965).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="MANU" Manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-27969).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:1140-27966).
 1. This playingEntity **SHALL** contain exactly one [1..1] **@classCode**="MMAT" Manufactured material (CodeSystem: EntityClass urn:oid:2.16.840.1.113883.5.41) (CONF:1140-27970).
 2. This playingEntity **SHALL** contain exactly one [1..1] **code** (CONF:1140-27967).

- a. This code **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27971).
- 8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-14124) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14125).
 - b. **SHALL** contain exactly one [1..1] **Patient Preference (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27235).
- 9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-14127) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14128).
 - b. **SHALL** contain exactly one [1..1] **Provider Preference (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27236).
- 10. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:1140-14130) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="MFST"** (CONF:1140-14131).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** (CONF:1140-14132).
 - c. **SHALL** contain exactly one [1..1] **Reaction (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27124).

Figure 153: Medication Adverse Effect (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Allergy - Intolerance Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.7" extension="2014-06-09" />
  <!-- Medication Adverse Effect -->
  <templateId root="2.16.840.1.113883.10.20.24.3.43" extension="2014-12-01" />
  <id root="901db0f8-9355-4794-81cd-fd951efe7817" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset of the adverse
         effect -->
    <!-- QDM Attribute: Start Datetime -->
    <low value="20141101" />
    <!-- QDM Attribute: Stop Datetime -->
    <!-- The high value reflects when the adverse effect was known to be resolved
         (and will generally be absent) -->
  </effectiveTime>
  <value xsi:type="CD" code="62014003" displayName="Adverse drug effect"
        codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
  <participant typeCode="CSM">
    <participantRole classCode="MANU">
      <playingEntity classCode="MMAT">
        <!-- Medication -->
        <code code="105152" codeSystem="2.16.840.1.113883.6.88"
              codeSystemName="RxNorm"
              displayName="Amoxicillin 60 MG/ML Oral Suspension"
              sdtc:valueSet="{ $QDMElementValueSetOID }" />
      </playingEntity>
    </participantRole>
  </participant>
  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014-06-09" />
      <!-- Reaction (QRDA I V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.65.3 Medication Allergy (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.44:2014-12-01
(open)]

Table 325: Medication Allergy (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Reaction (V2)

This template represents the QDM datatypes: Medication, Allergy and Substance, Allergy.

A medication allergy is an immunologically mediated reaction that exhibits specificity and recurs on re-exposure to the offending drug. This template may contain patient or provider preferences or thoughts about the allergy.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 326: Medication Allergy (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.44:2014-12-01)					
@classCode	1..1	SHALL		1140-14136	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-14137	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28082	
templateId	1..1	SHALL		1140-14138	
@root	1..1	SHALL		1140-14139	2.16.840.1.113883.10.20.24.3.44
@extension	1..1	SHALL		1140-27031	2014-12-01
value	1..1	SHALL	CD	1140-14159	
@code	1..1	SHALL		1140-14160	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 416098002
participant	1..1	SHALL		1140-27972	
@typeCode	1..1	SHALL		1140-27976	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CSM
participantRole	1..1	SHALL		1140-27973	
@classCode	1..1	SHALL		1140-27977	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingEntity	1..1	SHALL		1140-27974	
@classCode	1..1	SHALL		1140-27978	urn:oid:2.16.840.1.113883.5.41 (EntityClass) = MMAT
code	1..1	SHALL		1140-27975	
@sdtc:valueSet	1..1	SHALL		1140-27979	
entryRelationship	0..1	MAY		1140-14149	
@typeCode	1..1	SHALL		1140-14150	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27233	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-14152	
@typeCode	1..1	SHALL		1140-	urn:oid:2.16.840.1.113883.5.100

				14153	2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27234	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.84:2014-12-01)
entryRelationship	0..1	SHOULD		1140-14155	
@typeCode	1..1	SHALL		1140-14156	MFST
@inversionInd	1..1	SHALL		1140-14157	true
observation	1..1	SHALL		1140-27125	Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.85:2014-12-01)

1. Conforms to [Allergy - Intolerance Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-14136).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-14137).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28082).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-14138) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.44" (CONF:1140-14139).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27031).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-14159).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="416098002" Drug allergy (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-14160).
7. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-27972) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CSM" Consumable (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-27976).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-27973).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="MANU" Manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-27977).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:1140-27974).
 1. This playingEntity **SHALL** contain exactly one [1..1] **@classCode**="MMAT" Manufactured material (CodeSystem: EntityClass urn:oid:2.16.840.1.113883.5.41) (CONF:1140-27978).
 2. This playingEntity **SHALL** contain exactly one [1..1] **code** (CONF:1140-27975).

- a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27979).
- 8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-14149) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14150).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27233).
- 9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-14152) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14153).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27234).
- 10. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:1140-14155) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="MFST"** (CONF:1140-14156).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** (CONF:1140-14157).
 - c. **SHALL** contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27125).

Figure 154: Medication Allergy (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Allergy - Intolerance Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.7" extension="2014-06-09" />
  <!-- Medication Allergy -->
  <templateId root="2.16.840.1.113883.10.20.24.3.44" extension="2014-12-01" />
  <id root="901db0f8-9355-4794-81cd-fd951efe7817" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset of the allergy -->
    <!-- QDM Attribute: Start Datetime -->
    <low value="20141101" />
    <!-- QDM Attribute: Stop Datetime -->
    <!-- The high value reflects when the allergy was known to be resolved
        (and will generally be absent) -->
  </effectiveTime>
  <value xsi:type="CD" code="416098002" displayName="Drug allergy"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
  <participant typeCode="CSM">
    <participantRole classCode="MANU">
      <playingEntity classCode="MMAT">
        <!-- Medication -->
        <code code="105152" codeSystem="2.16.840.1.113883.6.88"
          codeSystemName="RxNorm"
          displayName="Amoxicillin 60 MG/ML Oral Suspension"
          sdct:valueSet="{ $QDMElementValueSetOID }" />
      </playingEntity>
    </participantRole>
  </participant>
  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014-06-09" />
      <!-- Reaction (QRDA I V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.65.4 Medication Intolerance (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.46:2014-12-01
(open)]

Table 327: Medication Intolerance (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Reaction (V2)

This template represents the QDM datatypes: Medication, Intolerance and Substance, Intolerance.

This datatype represents an intolerance to a medication. Medication intolerance is a reaction in specific patients representing a low threshold to the normal pharmacological action of a drug. Intolerance is generally based on patient report and perception of his or her ability to tolerate proper administration of a medication. Medication intolerance is distinct from medication allergy and medication adverse effects.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 328: Medication Intolerance (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.46:2014-12-01)					
@classCode	1..1	SHALL		1140-14086	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-14087	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28083	
templateId	1..1	SHALL		1140-14088	
@root	1..1	SHALL		1140-27418	2.16.840.1.113883.10.20.24.3.46
@extension	1..1	SHALL		1140-27032	2014-12-01
value	1..1	SHALL	CD	1140-14162	
@code	1..1	SHALL		1140-27419	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 59037007
participant	1..1	SHALL		1140-27980	
@typeCode	1..1	SHALL		1140-27984	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = CSM
participantRole	1..1	SHALL		1140-27981	
@classCode	1..1	SHALL		1140-27985	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingEntity	1..1	SHALL		1140-27982	
@classCode	1..1	SHALL		1140-27986	urn:oid:2.16.840.1.113883.5.41 (EntityClass) = MMAT
code	1..1	SHALL		1140-27983	
@sdtc:valueSet	1..1	SHALL		1140-27987	
entryRelationship	0..1	MAY		1140-14100	
@typeCode	1..1	SHALL		1140-14101	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27231	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-14103	
@typeCode	1..1	SHALL		1140-	urn:oid:2.16.840.1.113883.5.100

				14104	2 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27232	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.84:2014-12-01)
entryRelationship	0..1	SHOULD		1140-14106	
@typeCode	1..1	SHALL		1140-14107	MFST
@inversionInd	1..1	SHALL		1140-14108	true
observation	1..1	SHALL		1140-27128	Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.2.0.24.3.85:2014-12-01)

1. Conforms to [Allergy - Intolerance Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-14086).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-14087).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28083).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-14088) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.46" (CONF:1140-27418).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27032).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-14162).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="59037007" Drug intolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-27419).
7. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-27980) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="CSM" Consumable (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-27984).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-27981).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="MANU" Manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-27985).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:1140-27982).
 1. This playingEntity **SHALL** contain exactly one [1..1] **@classCode**="MMAT" Manufactured material (CodeSystem: EntityClass urn:oid:2.16.840.1.113883.5.41) (CONF:1140-27986).
 2. This playingEntity **SHALL** contain exactly one [1..1] **code** (CONF:1140-27983).

- a. This code **SHALL** contain exactly one [1..1] **@sdct:valueSet** (CONF:1140-27987).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-14100) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14101).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27231).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-14103) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-14104).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27232).
10. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:1140-14106) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="MFST"** (CONF:1140-14107).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** (CONF:1140-14108).
 - c. **SHALL** contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27128).

Figure 155: Medication Intolerance (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Allergy - Intolerance Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.7" extension="2014-06-09" />
  <!-- Medication Intolerance -->
  <templateId root="2.16.840.1.113883.10.20.24.3.46" extension="2014-12-01" />
  <id root="901db0f8-9355-4794-81cd-fd951efe7817" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- The low value reflects the date of onset of the intolerance -->
    <!-- QDM Attribute: Start Datetime -->
    <low value="20141101" />
    <!-- QDM Attribute: Stop Datetime -->
    <!-- The high value reflects when the intolerance was known to be resolved
        (and will generally be absent) -->
  </effectiveTime>
  <value xsi:type="CD" code="59037007" displayName="Drug intolerance"
    codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT" />
  <participant typeCode="CSM">
    <participantRole classCode="MANU">
      <playingEntity classCode="MMAT">
        <!-- Medication -->
        <code code="105152" codeSystem="2.16.840.1.113883.6.88"
          codeSystemName="RxNorm"
          displayName="Amoxicillin 60 MG/ML Oral Suspension"
          sdct:valueSet="{ $QDMElementValueSetOID }" />
      </playingEntity>
    </participantRole>
  </participant>
  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9" extension="2014-06-09" />
      <!-- Reaction (QRDA I V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84" extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</observation>
```

4.65.5 Device Adverse Event (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.5:2014-12-01
(open)]

Table 329: Device Adverse Event (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Reaction (V2)

This template represents the QDM datatype: Device, Adverse Event.

This datatype indicates an unexpected or dangerous reaction to a device. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolong hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter. A time/date stamp is required as are notations indicating whether item is patient reported and/or provider verified.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 330: Device Adverse Event (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.5:2014-12-01)					
@classCode	1..1	SHALL		1140-28044	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-28045	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28046	
templateId	1..1	SHALL		1140-12106	
@root	1..1	SHALL		1140-26942	2.16.840.1.113883.10.20.24.3.5
@extension	1..1	SHALL		1140-27029	2014-12-01
value	1..1	SHALL	CD	1140-12111	
@code	1..1	SHALL		1140-12189	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 281647001
participant	1..1	SHALL		1140-12112	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType)
@typeCode	1..1	SHALL		1140-12113	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = PRD
participantRole	1..1	SHALL		1140-12114	
@classCode	1..1	SHALL		1140-12115	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingDevice	1..1	SHALL		1140-12116	
@classCode	1..1	SHALL		1140-12117	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType)
code	1..1	SHALL		1140-12118	
@sdtc:valueSet	1..1	SHALL		1140-27582	
entryRelationship	1..1	SHALL		1140-12119	
@typeCode	1..1	SHALL		1140-12122	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = MFST
@inversionInd	1..1	SHALL		1140-12123	true
observation	1..1	SHALL		1140-27123	Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01)
entryRelationship	0..1	MAY		1140-	

				12120	
@typeCode	1..1	SHALL		1140-12125	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27237	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12121	
@typeCode	1..1	SHALL		1140-12127	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27238	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

1. Conforms to [Substance or Device Allergy - Intolerance Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28044).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28045).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28046).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12106) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.5" (CONF:1140-26942).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27029).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-12111).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="281647001" adverse reaction, which **SHALL** be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96) (CONF:1140-12189).
7. **SHALL** contain exactly one [1..1] **participant** (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1140-12112) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="PRD" product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12113).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-12114).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="MANU" manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12115).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **playingDevice** (CONF:1140-12116).
 1. This playingDevice **SHALL** contain exactly one [1..1] **@classCode** (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1140-12117).

2. This playingDevice **SHALL** contain exactly one [1..1] **code** (CONF:1140-12118).
 - a. This code **SHALL** contain exactly one [1..1] **@sdtc:valueSet** (CONF:1140-27582).
8. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:1140-12119) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="MFST"** is manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12122).
 - b. **SHALL** contain exactly one [1..1] **@inversionInd="true"** (CONF:1140-12123).
 - c. **SHALL** contain exactly one [1..1] **Reaction (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27123).
9. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12120) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12125).
 - b. **SHALL** contain exactly one [1..1] **Patient Preference (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27237).
10. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-12121) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12127).
 - b. **SHALL** contain exactly one [1..1] **Provider Preference (V2)** (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27238).

Figure 156: Device Adverse Event (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Substance or Device Allergy - Intolerance Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.90"
    extension="2014-06-09" />
  <!-- Device Adverse Event (V2) templateId -->
  <templateId root="2.16.840.1.113883.10.20.24.3.5"
    extension="2014-12-01" />
  <id root="e5f26626-b63a-4b4a-9d5a-8a90215ddd5d" />
  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM Attribute: Start Datetime -->
    <low value="20121224" />
    <!-- QDM Attribute: Stop Datetime -->
    <high value="20141015" />
  </effectiveTime>
  <value xsi:type="CD"
    code="281647001"
    displayName="adverse reaction"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" />

  <participant typeCode="PRD">
    <participantRole classCode="MANU">
      <playingDevice classCode="DEV">
        <!-- Device -->
        <code code="69805005"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED CT"
          displayName="Insulin pump, device (physical object)"
          sdct:valueSet="{QDMElementValueSetOID}" />
      </playingDevice>
    </participantRole>
  </participant>

  <!-- QDM Attribute: Reaction -->
  <entryRelationship typeCode="MFST" inversionInd="true">
    <observation classCode="OBS" moodCode="EVN">

      <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
      <templateId root="2.16.840.1.113883.10.20.22.4.9"
        extension="2014-06-09" />

      <!-- Reaction (QRDA I V2) -->
      <templateId root="2.16.840.1.113883.10.20.24.3.85"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
    </observation>
  </entryRelationship>
</observation>
```



```

    ...
  </observation>
</entryRelationship>

<!-- QDM Attribute: Provider Preference -->
<entryRelationship typeCode="RSON">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.3.84"
      extension="2014-12-01" />
    ...
  </observation>
</entryRelationship>
</observation>

```

4.65.6 Device Allergy (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.6:2014-12-01
(open)]

Table 331: Device Allergy (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Reaction (V2)

This template represents the QDM datatype: Device, Allergy.

This datatype represents an immunologically mediated reaction that exhibits specificity and recurrence on re-exposure to the offending device (e.g., implanted device). A time/date stamp is required as are notations indicating whether the item is patient reported and/or provider verified.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 332: Device Allergy (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.6:2014-12-01)					
@classCode	1..1	SHALL		1140-28047	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-28048	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28049	
templateId	1..1	SHALL		1140-12134	
@root	1..1	SHALL		1140-26941	2.16.840.1.113883.10.20.24.3.6
@extension	1..1	SHALL		1140-27033	2014-12-01
value	1..1	SHALL	CD	1140-12140	
@code	1..1	SHALL		1140-12188	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 106190000
participant	1..1	SHALL		1140-12141	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType)
@typeCode	1..1	SHALL		1140-12142	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = PRD
participantRole	1..1	SHALL		1140-12143	
@classCode	1..1	SHALL		1140-12144	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingDevice	1..1	SHALL		1140-12145	
@classCode	1..1	SHALL		1140-12146	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = DEV
code	1..1	SHALL		1140-12147	
@sdtc:valueSet	1..1	SHALL		1140-27583	
entryRelationship	1..1	SHALL		1140-12148	
@typeCode	1..1	SHALL		1140-12149	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = MFST
@inversionInd	1..1	SHALL		1140-12150	true
observation	1..1	SHALL		1140-27127	Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01)
entryRelationship	0..1	MAY		1140-	

				12152	
@typeCode	1..1	SHALL		1140-12153	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27229	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-12155	
@typeCode	1..1	SHALL		1140-12156	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27230	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

1. Conforms to [Substance or Device Allergy - Intolerance Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28047).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28048).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28049).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12134) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.6" (CONF:1140-26941).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27033).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-12140).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="106190000" allergy, which **SHALL** be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96) (CONF:1140-12188).
7. **SHALL** contain exactly one [1..1] **participant** (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1140-12141) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="PRD" product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12142).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-12143).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="MANU" manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12144).
 - ii. This participantRole **SHALL** contain exactly one [1..1] **playingDevice** (CONF:1140-12145).
 1. This playingDevice **SHALL** contain exactly one [1..1] **@classCode**="DEV" device (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12146).

2. This playingDevice **SHALL** contain exactly one [1..1] code (CONF:1140-12147).
 - a. This code **SHALL** contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27583).
8. **SHALL** contain exactly one [1..1] entryRelationship (CONF:1140-12148) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="MFST" is manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12149).
 - b. **SHALL** contain exactly one [1..1] @inversionInd="true" (CONF:1140-12150).
 - c. **SHALL** contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27127).
9. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12152) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12153).
 - b. **SHALL** contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27229).
10. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12155) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12156).
 - b. **SHALL** contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27230).

Figure 157: Device Allergy (V2) Example

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Substance or Device Allergy -
    Intolerance Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.90"
    extension="2014-06-09" />
  <!-- Device Allergy (V2) templateId -->
  <templateId root="2.16.840.1.113883.10.20.24.3.6"
    extension="2014-12-01" />
  <id root="68c53659-2058-47c2-9e80-de5e4aafdaf8" />

  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM attribute: Start Datetime -->
    <low value="201401211640" />
    <!-- QDM attribute: Stop Datetime -->
    <high value="201401211643" />
  </effectiveTime>
  <value xsi:type="CD"
    code="106190000"
    displayName="allergy"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" />

  <participant typeCode="PRD">
    <participantRole classCode="MANU">
      <playingDevice classCode="DEV">
        <!-- Device -->
        <code code="401608003"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED-CT"
          displayName="Suprapubic catheter (physical object)"
          sdctc:valueSet="{QDMElementValueSetOID}" />
      </playingDevice>
    </participantRole>
  </participant>

  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>

  <!-- QDM Attribute: Provider Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
```

```

<!-- QDM Attribute: Reaction -->
<entryRelationship typeCode="MFST" inversionInd="true">
  <observation classCode="OBS" moodCode="EVN">

    <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
    <templateId root="2.16.840.1.113883.10.20.22.4.9"
      extension="2014-06-09" />

    <!-- Reaction (QRDA I V2) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.85"
      extension="2014-12-01" />

    ...
  </observation>
</entryRelationship>
</observation>

```

4.65.7 Device Intolerance (V2)

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.8:2014-12-01
(open)]

Table 333: Device Intolerance (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2) Reaction (V2)

This template represents the QDM datatype: Device, Intolerance.

This datatype represents a reaction in specific patients representing a low threshold to the normal actions of a device. Intolerance is generally based on patient report and perception of his or her ability to tolerate a device that was properly applied. A time/date stamp is required as are notations indicating whether the item is patient reported and/or provider verified.

QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.

Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.

Table 334: Device Intolerance (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.8:2014-12-01)					
@classCode	1..1	SHALL		1140-28053	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-28054	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
@negationInd	0..1	MAY		1140-28055	
templateId	1..1	SHALL		1140-12162	
@root	1..1	SHALL		1140-26940	2.16.840.1.113883.10.20.24.3.8
@extension	1..1	SHALL		1140-27034	2014-12-01
value	1..1	SHALL	CD	1140-12342	
@code	1..1	SHALL		1140-26936	102460003
@codeSystem	1..1	SHALL		1140-26937	urn:oid:2.16.840.1.113883.6.96 (SNOMED CT) = 2.16.840.1.113883.6.96
participant	1..1	SHALL		1140-12170	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType)
@typeCode	1..1	SHALL		1140-12171	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = PRD
participantRole	1..1	SHALL		1140-12172	
@classCode	1..1	SHALL		1140-12173	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = MANU
playingDevice	1..1	SHALL		1140-12174	
@classCode	1..1	SHALL		1140-12175	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = DEV
code	1..1	SHALL		1140-12176	
@sdtc:valueSet	1..1	SHALL		1140-27585	
entryRelationship	0..1	MAY		1140-12181	
@typeCode	1..1	SHALL		1140-12182	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27227	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)

entryRelationship	0..1	MAY		1140-12184	
@typeCode	1..1	SHALL		1140-12185	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-27228	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)
entryRelationship	0..*	MAY		1140-16347	
@inversionInd	1..1	SHALL		1140-16348	true
typeId	1..1	SHALL	x_ActRelationshipEntryRelationship	1140-16349	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = MFST
observation	1..1	SHALL		1140-27126	Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01)

1. Conforms to [Substance or Device Allergy - Intolerance Observation \(V2\)](#) template (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09).
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28053).
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28054).
4. **MAY** contain zero or one [0..1] **@negationInd** (CONF:1140-28055).
5. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-12162) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.8" (CONF:1140-26940).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-27034).
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:1140-12342).
 - a. This value **SHALL** contain exactly one [1..1] **@code**="102460003" Decreased tolerance (CONF:1140-26936).
 - b. This value **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-26937).
7. **SHALL** contain exactly one [1..1] **participant** (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:1140-12170) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="PRD" product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12171).
 - b. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-12172).

- i. This participantRole **SHALL** contain exactly one [1..1] @classCode="MANU" manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-12173).
 - ii. This participantRole **SHALL** contain exactly one [1..1] playingDevice (CONF:1140-12174).
 - 1. This playingDevice **SHALL** contain exactly one [1..1] @classCode="DEV" device (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-12175).
 - 2. This playingDevice **SHALL** contain exactly one [1..1] code (CONF:1140-12176).
 - a. This code **SHALL** contain exactly one [1..1] @sdct:valueSet (CONF:1140-27585).
- 8. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12181) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12182).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27227).
- 9. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-12184) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-12185).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27228).
- 10. **MAY** contain zero or more [0..*] entryRelationship (CONF:1140-16347) such that it
 - a. **SHALL** contain exactly one [1..1] @inversionInd="true" True (CONF:1140-16348).
 - b. **SHALL** contain exactly one [1..1] typeId="MFST" Is manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-16349).
 - c. **SHALL** contain exactly one [1..1] [Reaction \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27126).

Figure 158: Device Intolerance (V2)

```
<observation classCode="OBS" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Substance or Device Allergy -
    Intolerance Observation (V2) -->
  <templateId root="2.16.840.1.113883.10.20.24.3.90"
    extension="2014-06-09" />
  <!-- Device Intolerance (V2) TemplateId -->
  <templateId root="2.16.840.1.113883.10.20.24.3.8"
    extension="2014-12-01" />
  <id root="aab8571c-db69-4239-9d36-657c85daaeee" />

  <code code="ASSERTION" codeSystem="2.16.840.1.113883.5.4" />
  <statusCode code="completed" />
  <effectiveTime>
    <!-- QDM attribute: Start Datetime -->
    <low value="201401211640" />
    <!-- QDM attribute: Stop Datetime -->
    <high value="201401211643" />
  </effectiveTime>

  <value xsi:type="CD"
    code="102460003"
    displayName="Decreased tolerance"
    codeSystem="2.16.840.1.113883.6.96"
    codeSystemName="SNOMED-CT" />
  <participant typeCode="PRD">
    <participantRole classCode="MANU">
      <playingDevice classCode="DEV">
        <!-- Device -->
        <code code="401608003"
          codeSystem="2.16.840.1.113883.6.96"
          codeSystemName="SNOMED-CT"
          displayName="Suprapubic catheter (physical object)"
          sdctc:valueSet="{ $QDMElementValueSetOID }" />
        </playingDevice>
      </participantRole>
    </participant>

    <!-- QDM Attribute: Patient Preference -->
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.83"
          extension="2014-12-01" />
        ...
      </observation>
    </entryRelationship>

    <!-- QDM Attribute: Provider Preference -->
    <entryRelationship typeCode="RSON">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.24.3.84"
          extension="2014-12-01" />
        ...
      </observation>
    </entryRelationship>
```

```

<!-- QDM Attribute: Reaction -->
<entryRelationship typeCode="MFST" inversionInd="true">
  <observation classCode="OBS" moodCode="EVN">

    <!-- Conforms to C-CDA R2 Reaction Observation (V2) -->
    <templateId root="2.16.840.1.113883.10.20.22.4.9"
      extension="2014-06-09" />

    <!-- Reaction (QRDA I V2) -->
    <templateId root="2.16.840.1.113883.10.20.24.3.85"
      extension="2014-12-01" />

    ...
  </observation>
</entryRelationship>
</observation>

```

4.66 Target Outcome

[observation: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.119:2014-12-01 (open)]

Table 335: Target Outcome Contexts

Contained By:	Contains:
Care Goal [V2] (optional)	

This template represents the QDM attribute: Target Outcome.

This attribute is the outcome that was expected and represents the met Care Goal.

Table 336: Target Outcome Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.119:2014-12-01)					
@classCode	1..1	SHALL		1140-28033	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = OBS
@moodCode	1..1	SHALL		1140-28034	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-28025	
@root	1..1	SHALL		1140-28028	2.16.840.1.113883.10.20.24.3.119
@extension	1..1	SHALL		1140-28029	2014-12-01
id	1..*	SHALL		1140-28035	
code	1..1	SHALL		1140-28026	urn:oid:2.16.840.1.113883.6.1 (LOINC)
@sdct:valueSet	0..1	SHOULD		1140-28390	
value	1..1	SHALL		1140-28027	

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28033).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28034).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-28025) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.119" (CONF:1140-28028).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-28029).
4. **SHALL** contain at least one [1..*] **id** (CONF:1140-28035).
5. **SHALL** contain exactly one [1..1] **code**, which **SHOULD** be selected from CodeSystem LOINC (urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28026).
 - a. This code **SHOULD** contain zero or one [0..1] **@sdct:valueSet** (CONF:1140-28390).
6. **SHALL** contain exactly one [1..1] **value** (CONF:1140-28027).

Figure 159: Target Outcome Example

```
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.3.119"
    extension="2014-12-01" />
  <id root="3a4aa411-78b9-484b-a0f1-33f1cf49b4ad" />
  <code code="29463-7"
    displayName="Body weight"
    codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC"
    sdtc:valueSet="2.16.840.1.113883.3.464.1003.121.12.1015" />
  <value xsi:type="PQ" unit="kg" value="65" />
</observation>
```

4.67 Transfer From (V2)

[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.81:2014-12-01
(open)]

Table 337: Transfer From (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Transfer From.

Transfer of care refers to the different locations or settings a patient is released to, or received from, in order to ensure the coordination and continuity of healthcare. Transfer From specifies the setting from which a patient is received (e.g., home, acute care hospital, skilled nursing).

Table 338: Transfer From (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.81:2014-12-01)					
@classCode	1..1	SHALL		1140-28306	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
@moodCode	1..1	SHALL		1140-28307	urn:oid:2.16.840.1.113883.5.1001 (ActMood) = EVN
templateId	1..1	SHALL		1140-13189	
@root	1..1	SHALL		1140-13190	2.16.840.1.113883.10.20.24.3.81
@extension	1..1	SHALL		1140-28308	2014-12-01
id	1..*	SHALL		1140-28309	
code	1..1	SHALL		1140-28302	
@code	1..1	SHALL		1140-28310	77305-1
@codeSystem	1..1	SHALL		1140-28311	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1140-28303	
@code	1..1	SHALL		1140-28312	urn:oid:2.16.840.1.113883.5.14 (ActStatus) = completed
participant	1..1	SHALL		1140-28304	
@typeCode	1..1	SHALL		1140-28313	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = ORG
time	1..1	SHALL		1140-28305	
low	1..1	SHALL		1140-28314	
high	0..1	MAY		1140-28315	
participantRole	1..1	SHALL		1140-28316	
@classCode	1..1	SHALL		1140-28320	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = LOCE
code	1..1	SHALL		1140-28317	
@sdct:valueSet	1..1	SHALL		1140-28321	
entryRelationship	0..1	MAY		1140-28318	

@typeCode	1..1	SHALL		1140-28322	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-28323	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-28319	
@typeCode	1..1	SHALL		1140-28324	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-28325	Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

1. **SHALL** contain exactly one [1..1] **@classCode**="ENC" Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28306).
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28307).
3. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13189) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.81" (CONF:1140-13190).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-28308).
4. **SHALL** contain at least one [1..*] **id** (CONF:1140-28309).
5. **SHALL** contain exactly one [1..1] **code** (CONF:1140-28302).
 - a. This code **SHALL** contain exactly one [1..1] **@code**="77305-1" Transferred from (CONF:1140-28310).
 - b. This code **SHALL** contain exactly one [1..1] **@codeSystem**="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28311).
6. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-28303).
 - a. This statusCode **SHALL** contain exactly one [1..1] **@code**="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-28312).
7. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-28304) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode**="ORG" Origin (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-28313).
 - b. **SHALL** contain exactly one [1..1] **time** (CONF:1140-28305).
 - i. This time **SHALL** contain exactly one [1..1] **low** (CONF:1140-28314).
 - ii. This time **MAY** contain zero or one [0..1] **high** (CONF:1140-28315).
 - c. **SHALL** contain exactly one [1..1] **participantRole** (CONF:1140-28316).
 - i. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="LOCE" Located entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-28320).

- ii. This participantRole **SHALL** contain exactly one [1..1] code (CONF:1140-28317).
 - 1. This code **SHALL** contain exactly one [1..1] @sdct:valueSet (CONF:1140-28321).
- 8. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-28318) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28322).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-28323).
- 9. **MAY** contain zero or one [0..1] entryRelationship (CONF:1140-28319) such that it
 - a. **SHALL** contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28324).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-28325).

Figure 160: Transfer From (V2) Example

```
<encounter classCode="ENC" moodCode="EVN">
  <!-- Transfer From -->
  <templateId root="2.16.840.1.113883.10.20.24.3.81"
    extension="2014-12-01" />
  <id root="49d75f61-0dec-4972-9a51-e2490b18c772" />
  <code code="77305-1"
    codeSystem="2.16.840.1.113883.6.1"
    displayName="Transferred from"
    codeSystemName="LOINC" />
  <statusCode code="completed" />
  <participant typeCode="ORG">
    <time>
      <!-- QDM Attribute: Start Datetime -->
      <low value="201411041030" />
      <!-- QDM Attribute: Start Datetime -->
      <high value="201411041030" />
    </time>
    <participantRole classCode="LOCE">
      <!-- Transfer from location -->
      <code code="309911002" codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Respiratory intensive care unit (environment)"
        sdtc:valueSet="{ $QDMElementValueSetOID }" />
    </participantRole>
  </participant>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</encounter>
```

4.68 Transfer To (V2)

[encounter: identifier urn:hl7ii:2.16.840.1.113883.10.20.24.3.82:2014-12-01
(open)]

Table 339: Transfer To (V2) Contexts

Contained By:	Contains:
Patient Data Section QDM (V2) (optional)	Patient Preference (V2) Provider Preference (V2)

This template represents the QDM datatype: Transfer To.

Transfer of care refers to the different locations or settings a patient is released to, or received from, in order to ensure the coordination and continuity of healthcare. Transfer To specifies the setting the patient is released to (e.g., home, acute care hospital, skilled nursing).

Table 340: Transfer To (V2) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
encounter (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.82:2014-12-01)					
@classCode	1..1	SHALL		1140-28358	urn:oid:2.16.840.1.113883.5.6 (HL7ActClass) = ENC
templateId	1..1	SHALL		1140-13182	
@root	1..1	SHALL		1140-13183	2.16.840.1.113883.10.20.24.3.82
@extension	0..1	MAY		1140-28359	2014-12-01
id	1..*	SHALL		1140-28360	
code	1..1	SHALL		1140-28352	
@code	1..1	SHALL		1140-28361	77306-9
@codeSystem	0..1	MAY		1140-28362	urn:oid:2.16.840.1.113883.6.1 (LOINC) = 2.16.840.1.113883.6.1
statusCode	1..1	SHALL		1140-28353	
@code	0..1	MAY		1140-28363	completed
participant	1..1	SHALL		1140-28354	
@typeCode	1..1	SHALL		1140-28364	DST
time	1..1	SHALL		1140-28355	
low	1..1	SHALL		1140-28365	
high	0..1	MAY		1140-28366	
entryRelationship	0..1	MAY		1140-28356	
@typeCode	1..1	SHALL		1140-28367	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = RSON
observation	1..1	SHALL		1140-28368	Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)
entryRelationship	0..1	MAY		1140-28357	
@typeCode	1..1	SHALL		1140-28369	RSON
observation	1..1	SHALL		1140-	Provider Preference (V2)

				28370	(identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
--	--	--	--	-----------------------	---

1. **SHALL** contain exactly one [1..1] **@classCode="ENC"** Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28358).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:1140-13182) such that it
 - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.24.3.82"** (CONF:1140-13183).
 - b. **MAY** contain zero or one [0..1] **@extension="2014-12-01"** (CONF:1140-28359).
3. **SHALL** contain at least one [1..*] **id** (CONF:1140-28360).
4. **SHALL** contain exactly one [1..1] **code** (CONF:1140-28352).
 - a. This code **SHALL** contain exactly one [1..1] **@code="77306-9"** Discharge disposition (CONF:1140-28361).
 - b. This code **MAY** contain zero or one [0..1] **@codeSystem="2.16.840.1.113883.6.1"** (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28362).
5. **SHALL** contain exactly one [1..1] **statusCode** (CONF:1140-28353).
 - a. This statusCode **MAY** contain zero or one [0..1] **@code="completed"** Completed (CONF:1140-28363).
6. **SHALL** contain exactly one [1..1] **participant** (CONF:1140-28354) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="DST"** Destination (CONF:1140-28364).
 - b. **SHALL** contain exactly one [1..1] **time** (CONF:1140-28355).
 - i. This time **SHALL** contain exactly one [1..1] **low** (CONF:1140-28365).
 - ii. This time **MAY** contain zero or one [0..1] **high** (CONF:1140-28366).
7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-28356) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28367).
 - b. **SHALL** contain exactly one [1..1] [Patient Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-28368).
8. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:1140-28357) such that it
 - a. **SHALL** contain exactly one [1..1] **@typeCode="RSON"** Has reason (CONF:1140-28369).
 - b. **SHALL** contain exactly one [1..1] [Provider Preference \(V2\)](#) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-28370).

Figure 161: Transfer To (V2) Example

```
<encounter classCode="ENC" moodCode="EVN">
  <!-- Transfer To -->
  <templateId root="2.16.840.1.113883.10.20.24.3.82"
    extension="2014-12-01" />
  <id root="49d75f61-0dec-4972-9a51-e2490b18c772" />
  <code code="77306-9"
    codeSystem="2.16.840.1.113883.6.1"
    displayName="Discharge disposition"
    codeSystemName="LOINC" />
  <statusCode code="completed" />
  <participant typeCode="DST">
    <time>
      <!-- QDM Attribute: Start Datetime -->
      <low value="201411041030" />
      <!-- QDM Attribute: Start Datetime -->
      <high value="201411041030" />
    </time>
    <participantRole classCode="LOCE">
      <!-- Transfer to location -->
      <code code="309911002"
        codeSystem="2.16.840.1.113883.6.96"
        codeSystemName="SNOMED CT"
        displayName="Respiratory intensive care unit (environment)"
        sdtc:valueSet="{ $QDMElementValueSetOID}" />
    </participantRole>
  </participant>
  <!-- QDM Attribute: Patient Preference -->
  <entryRelationship typeCode="RSON">
    <observation classCode="OBS" moodCode="EVN">
      <!-- Patient Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.83"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="RSON">
    <!-- QDM Attribute: Provider Preference -->
    <observation classCode="OBS" moodCode="EVN">
      <!-- Provider Preference (V2) templateId -->
      <templateId root="2.16.840.1.113883.10.20.24.3.84"
        extension="2014-12-01" />
      ...
    </observation>
  </entryRelationship>
</encounter>
```

5 SUBENTRY TEMPLATES

5.1 Facility Location

[participant: identifier urn:oid:2.16.840.1.113883.10.20.24.3.100 (open)]

Table 341: Facility Location Contexts

Contained By:	Contains:
Encounter Active (V2) (optional) Encounter Performed (V2) (optional) Diagnostic Study Performed (V2) (optional)	

This clinical statement represents the location where an act, observation or procedure took place.

Table 342: Facility Location Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
participant (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.100)					
@typeCode	1..1	SHALL		67-13374	urn:oid:2.16.840.1.113883.5.90 (HL7ParticipationType) = LOC
templateId	1..1	SHALL		67-13375	
@root	1..1	SHALL		67-13376	2.16.840.1.113883.10.20.24.3.100
time	1..1	SHALL		67-13371	
low	1..1	SHALL		67-13384	
high	1..1	SHALL		67-13385	
participantRole	1..1	SHALL		67-13372	
@classCode	1..1	SHALL		67-13373	urn:oid:2.16.840.1.113883.5.110 (RoleClass) = SDLOC
code	1..1	SHALL		67-13378	
addr	0..*	SHOULD		67-13379	
telecom	0..*	SHOULD		67-13380	
playingEntity	0..1	MAY		67-13381	
@classCode	1..1	SHALL		67-13382	urn:oid:2.16.840.1.113883.5.41 (EntityClass) = PLC
name	0..1	MAY		67-13383	

1. **SHALL** contain exactly one [1..1] **@typeCode**="LOC" location (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 **STATIC**) (CONF:67-13374).
2. **SHALL** contain exactly one [1..1] **templateId** (CONF:67-13375) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.100" (CONF:67-13376).
3. **SHALL** contain exactly one [1..1] **time** (CONF:67-13371).
 - a. This time **SHALL** contain exactly one [1..1] **low** (CONF:67-13384).
 - b. This time **SHALL** contain exactly one [1..1] **high** (CONF:67-13385).
4. **SHALL** contain exactly one [1..1] **participantRole** (CONF:67-13372).
 - a. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="SDLOC" service delivery location (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 **STATIC**) (CONF:67-13373).

- b. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:67-13378).
- c. This participantRole **SHOULD** contain zero or more [0..*] **addr** (CONF:67-13379).
- d. This participantRole **SHOULD** contain zero or more [0..*] **telecom** (CONF:67-13380).
- e. This participantRole **MAY** contain zero or one [0..1] **playingEntity** (CONF:67-13381).
 - i. The playingEntity, if present, **SHALL** contain exactly one [1..1] **@classCode="PLC" place** (CodeSystem: EntityClass urn:oid:2.16.840.1.113883.5.41 **STATIC**) (CONF:67-13382).
 - ii. The playingEntity, if present, **MAY** contain zero or one [0..1] **name** (CONF:67-13383).

5.2 Fulfills

```
[sdct:inFulfillmentOf1: identifier
urn:hl7ii:2.16.840.1.113883.10.20.24.3.126:2014-12-01 (open)]
```

This template represents the QDM general relationship operator: Fulfills.

The Fulfills general relationship operator indicates that one QDM element fulfills another. This is often used in the context of a note/report fulfilling a referral or order, but other applications may exist.

This template uses the CDA extension sdct:inFulfillmentOf1 which is available to be used inside an observation, substanceAdministration, supply, procedure, encounter, procedure or an act. Any one of the preceding could potentially fulfill an order or recommendation. This template will reference (using sdct:actReference) an already existing order or recommendation in the QRDA document. The id of the existing order or recommendation will be used to reference the already existing data without repeating it in this template. The sdct:actReference/id is required and must be the same id as the entry/id it is referencing. The sdct:actReference/id cannot be a null value. The sdct:actReference/classCode and sdct:actReference/moodCode must be the same as the entry/classCode and entry/moodCode of the entry being referenced.

This template is not specifically contained by any other QRDA templates but it can be used by any observation, substanceAdministration, supply, procedure, encounter, procedure or act that fulfills an order.

Table 343: Fulfills Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
sdct:inFulfillmentOf1 (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.126:2014-12-01)					
@typeCode	1..1	SHALL		1140-28381	urn:oid:2.16.840.1.113883.5.1002 (HL7ActRelationshipType) = FLFS
sdct:templateId	1..1	SHALL		1140-28379	
@root	1..1	SHALL		1140-28382	2.16.840.1.113883.10.20.24.3.126
@extension	1..1	SHALL		1140-28383	2014-12-01
sdct:actReference	1..1	SHALL		1140-28380	
@classCode	1..1	SHALL		1140-28384	
@moodCode	1..1	SHALL		1140-28385	
sdct:id	1..*	SHALL		1140-28386	

1. **SHALL** contain exactly one [1..1] **@typeCode**="FLFS" Fulfills (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28381).
2. **SHALL** contain exactly one [1..1] **sdct:templateId** (CONF:1140-28379) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.24.3.126" (CONF:1140-28382).
 - b. **SHALL** contain exactly one [1..1] **@extension**="2014-12-01" (CONF:1140-28383).
3. **SHALL** contain exactly one [1..1] **sdct:actReference** (CONF:1140-28380).

@classCode must be the same as the entry/classCode of the entry being referenced.

- a. This sdct:actReference **SHALL** contain exactly one [1..1] **@classCode** (CONF:1140-28384).

@moodCode must be the same as the entry/moodCode of the entry being referenced.

- b. This sdct:actReference **SHALL** contain exactly one [1..1] **@moodCode** (CONF:1140-28385).

The ID must equal another entry/id in the same document instance. Application Software must be responsible for resolving the identifier back to its original object and then rendering the information in the correct place in the containing section's narrative text. The ID cannot have Null value (e.g., nullFlavor is not allowed).

- c. This sdct:actReference **SHALL** contain at least one [1..*] **sdct:id** (CONF:1140-28386).

Figure 162: Fulfills Example

```
<procedure classCode="PROC" moodCode="EVN">
  <!-- Conforms to C-CDA R2 Procedure Activity Procedure (V2) -->
  <templateId root="2.16.840.1.113883.10.20.22.4.14"
    extension="2014-06-09" />
  <!-- QRDA R3: Device Applied Template -->
  <templateId root="2.16.840.1.113883.10.20.24.3.7"
    extension="2014-12-01" />

  ...

  <!-- This Device, Applied procedure is in fulfillment of a Device, Order
    defined elsewhere in the CDA XML -->
  <!-- QRDA R3: Fulfills -->
  <sdctc:inFulfillmentOf1 typeCode="FLFS">
    <sdctc:templateId root="2.16.840.1.113883.10.20.24.3.126"
      extension="2014-12-01"/>
    <!-- The classCode and moodCode are the same as the classCode and moodCode
      of the Device, Order being referenced -->
    <sdctc:actReference classCode="SPLY" moodCode="RQO">
      <!-- The id is the same as the id of the Device, Order being referenced -->
      <sdctc:id root="6a8d037d-f144-4071-9d1f-8a92a11dedc6" />
    </sdctc:actReference>
  </sdctc:inFulfillmentOf1>
</procedure>
```

6 PARTICIPATION AND OTHER TEMPLATES

6.1 Author Participation

[author: identifier urn:oid:2.16.840.1.113883.10.20.22.4.119 (open)]

Table 344: Author Participation Contexts

Contained By:	Contains:
Medication Activity (V2) (optional) Procedure Activity Act (V2) (optional) Procedure Activity Procedure (V2) (optional) Procedure Activity Observation (V2) (optional) Problem Observation (V2) (optional) Problem Concern Act (V2) (optional) Goal Observation (required) Allergy - Intolerance Observation (V2) (optional) Substance or Device Allergy - Intolerance Observation (V2) (optional) Planned Act (V2) (optional) Planned Encounter (V2) (optional) Planned Procedure (V2) (optional) Planned Observation (V2) (optional) Planned Supply (V2) (optional) Planned Medication Activity (V2) (optional) Result Observation (V2) (optional) Priority Preference (optional) Planned Coverage (optional) Intervention Order (V2) (required) Intervention Recommended (V2) (required) Encounter Order (V2) (required) Encounter Recommended (V2) (required) Diagnostic Study Order (V2) (required) Diagnostic Study Recommended (V2) (required) Functional Status Order (V2) (required) Functional Status Recommended (V2) (required) Laboratory Test Order (V2) (required) Laboratory Test Recommended (V2) (required) Physical Exam Order (V2) (required) Physical Exam Recommended (V2) (required) Procedure Order (V2) (required) Procedure Recommended (V2) (required) Device Order (V2) (required) Device Recommended (V2) (required) Substance Recommended (V2) (required)	

This template represents the Author Participation (including the author timestamp). CDA R2 requires that Author and Author timestamp be asserted in the document header. From there, authorship propagates to contained sections and contained entries, unless explicitly overridden.

The Author Participation template was added to those templates in scope for analysis in R2. Although it is not explicitly stated in all templates the Author Participation template can be used in any template.

Table 345: Author Participation Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
author (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)					
templateId	1..1	SHALL		1098-32017	
@root	1..1	SHALL		1098-32018	2.16.840.1.113883.10.20.22.4.119
time	1..1	SHALL		1098-31471	
assignedAuthor	1..1	SHALL		1098-31472	
id	1..*	SHALL		1098-31473	
code	0..1	SHOULD		1098-31671	urn:oid:2.16.840.1.114222.4.11.1066 (Healthcare Provider Taxonomy (HIPAA))
assignedPerson	0..1	MAY		1098-31474	
name	0..*	MAY		1098-31475	
representedOrganization	0..1	MAY		1098-31476	
@classCode	1..1	SHALL		1098-31477	ORG
id	0..*	MAY		1098-31478	
name	0..*	MAY		1098-31479	
telecom	0..*	MAY		1098-31480	
addr	0..*	MAY		1098-31481	

1. **SHALL** contain exactly one [1..1] **templateId** (CONF:1098-32017) such that it
 - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.22.4.119" (CONF:1098-32018).
2. **SHALL** contain exactly one [1..1] **time** (CONF:1098-31471).

3. **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:1098-31472).
- a. This **assignedAuthor** **SHALL** contain at least one [1..*] **id** (CONF:1098-31473).
Note: This id may be set equal to (a pointer to) an id on a participant elsewhere in the document (header or entries) or a new author participant can be described here. If the id is pointing to a participant already described elsewhere in the document, **assignedAuthor/id** is sufficient to identify this participant and none of the remaining details of **assignedAuthor** are required to be set. Application Software must be responsible for resolving the identifier back to its original object and then rendering the information in the correct place in the containing section's narrative text. This id must be a pointer to another author participant.
 - i. If the ID isn't referencing an author described elsewhere in the document, then the author components required in US Realm Header are required here as well (CONF:1098-32628).
 - b. This **assignedAuthor** **SHOULD** contain zero or one [0..1] **code**, which **SHOULD** be selected from ValueSet [Healthcare Provider Taxonomy \(HIPAA\)](#) `urn:oid:2.16.840.1.114222.4.11.1066` **DYNAMIC** (CONF:1098-31671).
 - i. If the content is patient authored the code **SHOULD** be selected from Personal And Legal Relationship Role Type (2.16.840.1.113883.11.20.12.1) (CONF:1098-32315).
 - c. This **assignedAuthor** **MAY** contain zero or one [0..1] **assignedPerson** (CONF:1098-31474).
 - i. The **assignedPerson**, if present, **MAY** contain zero or more [0..*] **name** (CONF:1098-31475).
 - d. This **assignedAuthor** **MAY** contain zero or one [0..1] **representedOrganization** (CONF:1098-31476).
 - i. The **representedOrganization**, if present, **SHALL** contain exactly one [1..1] **@classCode="ORG"** (CONF:1098-31477).
 - ii. The **representedOrganization**, if present, **MAY** contain zero or more [0..*] **id** (CONF:1098-31478).
 - iii. The **representedOrganization**, if present, **MAY** contain zero or more [0..*] **name** (CONF:1098-31479).
 - iv. The **representedOrganization**, if present, **MAY** contain zero or more [0..*] **telecom** (CONF:1098-31480).
 - v. The **representedOrganization**, if present, **MAY** contain zero or more [0..*] **addr** (CONF:1098-31481).

Figure 163: New Author Participant Example

```
<author>
  <templateId root="2.16.840.1.113883.10.20.22.4.119" />
  <time value="201308011235-0800" />
  <assignedAuthor>
    <id root="20cf14fb-b65c-4c8c-a54d-b0cca834c18c" />
    <code code="163W00000X" codeSystem="2.16.840.1.113883.5.53" codeSystemName="Health
Care Provider Taxonomy" displayName="Registered nurse" />
    <assignedPerson>
      <name>
        <given>Nurse</given>
        <family>Nightingale</family>
        <suffix>RN</suffix>
      </name>
    </assignedPerson>
    <representedOrganization>
      <id root="2.16.840.1.113883.19.5" />
      <name>Good Health Hospital</name>
    </representedOrganization>
  </assignedAuthor>
</author>
```

Figure 164: Existing Author Reference Example

```
<author>
  <time value="201308011235-0800" />
  <assignedAuthor>
    <!--
      This id points to a participant already described
      elsewhere in the document
    -->
    <id root="20cf14fb-b65c-4c8c-a54d-b0cca834c18c" />
  </assignedAuthor>
</author>
```

6.2 US Realm Address (AD.US.FIELDDED)

[addr: identifier urn:oid:2.16.840.1.113883.10.20.22.5.2 (open)]

Table 346: US Realm Address (AD.US.FIELDDED) Contexts

Contained By:	Contains:
US Realm Header (V2) (required) Medication Dispense (V2) (optional)	

Reusable address template, for use in US Realm CDA Header.

Table 347: US Realm Address (AD.US.FIELDDED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
addr (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.2)					
@use	0..1	SHOULD		81-7290	urn:oid:2.16.840.1.113883.1.11.10637 (PostalAddressUse)
country	0..1	SHOULD		81-7295	urn:oid:2.16.840.1.113883.3.88.12.80.63 (Country)
state	0..1	SHOULD		81-7293	urn:oid:2.16.840.1.113883.3.88.12.80.1 (StateValueSet)
city	1..1	SHALL		81-7292	
postalCode	0..1	SHOULD		81-7294	urn:oid:2.16.840.1.113883.3.88.12.80.2 (PostalCode)
streetAddressLine	1..1	SHALL		81-7291	

1. **SHOULD** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [PostalAddressUse](#) urn:oid:2.16.840.1.113883.1.11.10637 **STATIC** 2005-05-01 (CONF:81-7290).
2. **SHOULD** contain zero or one [0..1] **country**, which **SHALL** be selected from ValueSet [Country](#) urn:oid:2.16.840.1.113883.3.88.12.80.63 **DYNAMIC** (CONF:81-7295).
3. **SHOULD** contain zero or one [0..1] **state** (ValueSet: [StateValueSet](#) urn:oid:2.16.840.1.113883.3.88.12.80.1 **DYNAMIC**) (CONF:81-7293).
 - a. State is required if the country is US. If country is not specified, it's assumed to be US. If country is something other than US, the state **MAY** be present but **MAY** be bound to different vocabularies (CONF:81-10024).
4. **SHALL** contain exactly one [1..1] **city** (CONF:81-7292).
5. **SHOULD** contain zero or one [0..1] **postalCode**, which **SHOULD** be selected from ValueSet [PostalCode](#) urn:oid:2.16.840.1.113883.3.88.12.80.2 **DYNAMIC** (CONF:81-7294).
 - a. PostalCode is required if the country is US. If country is not specified, it's assumed to be US. If country is something other than US, the postalCode **MAY** be present but **MAY** be bound to different vocabularies (CONF:81-10025).
6. **SHALL** contain exactly one [1..1] **streetAddressLine** (CONF:81-7291).
7. **SHALL NOT** have mixed content except for white space (CONF:81-7296).

Table 348: PostalAddressUse

Value Set: PostalAddressUse urn:oid:2.16.840.1.113883.1.11.10637			
A value set of HL7 Codes for address use.			
Value Set Source:			
http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
BAD	AddressUse	urn:oid:2.16.840.1.113883.5.1119	bad address
CONF	AddressUse	urn:oid:2.16.840.1.113883.5.1119	confidential
DIR	AddressUse	urn:oid:2.16.840.1.113883.5.1119	direct
H	AddressUse	urn:oid:2.16.840.1.113883.5.1119	home address
HP	AddressUse	urn:oid:2.16.840.1.113883.5.1119	primary home
HV	AddressUse	urn:oid:2.16.840.1.113883.5.1119	vacation home
PHYS	AddressUse	urn:oid:2.16.840.1.113883.5.1119	physical visit address
PST	AddressUse	urn:oid:2.16.840.1.113883.5.1119	postal address
PUB	AddressUse	urn:oid:2.16.840.1.113883.5.1119	public
TMP	AddressUse	urn:oid:2.16.840.1.113883.5.1119	temporary
...			

Table 349: StateValueSet

Value Set: StateValueSet urn:oid:2.16.840.1.113883.3.88.12.80.1			
Identifies addresses within the United States are recorded using the FIPS 5-2 two-letter alphabetic codes for the State, District of Columbia, or an outlying area of the United States or associated area			
Value Set Source: http://www.census.gov/geo/reference/ansi_statetables.html			
Code	Code System	Code System OID	Print Name
AL	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Alabama
AK	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Alaska
AZ	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Arizona
AR	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Arkansas
CA	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	California
CO	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Colorado
CT	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Connecticut
DE	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Delaware
DC	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	District of Columbia
FL	FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92	Florida
...			

Figure 165: US Realm Address Example

<pre> <addr use="HP"> <streetAddressLine>22 Sample Street</streetAddressLine> <city>Beaverton</city> <state>OR</state> <postalCode>97867</postalCode> <country>US</country> </addr> </pre>
--

6.3 US Realm Date and Time (DTM.US.FIELDDED)

[effectiveTime: identifier urn:oid:2.16.840.1.113883.10.20.22.5.4 (open)]

Table 350: US Realm Date and Time (DTM.US.FIELDDED) Contexts

Contained By:	Contains:
US Realm Header (V2) (required)	

The US Realm Clinical Document Date and Time datatype flavor records date and time information. If no time zone offset is provided, you can make no assumption about time, unless you have made a local exchange agreement.

This data type uses the same rules as US Realm Date and Time (DT.US.FIELDDED), but is used with elements having a datatype of TS.

Table 351: US Realm Date and Time (DTM.US.FIELDDED) Constraints Overview

X P a t h	Card.	Verb	Data Type	CONF#	Value
					effectiveTime (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.4)

1. **SHALL** be precise to the day (CONF:81-10127).
2. **SHOULD** be precise to the minute (CONF:81-10128).
3. **MAY** be precise to the second (CONF:81-10129).
4. If more precise than day, **SHOULD** include time-zone offset (CONF:81-10130).

Figure 166: US Realm Date and Time Example

<pre> <!-- Common values for date/time elements would range in precision to the day YYYYMMDD to precision to the second with a time zone offset YYYYMMDDHHMMSS - ZZzz --> <!-- time element with TS data type precise to the day for a birthdate --> <time value="19800531"/> <!-- effectiveTime element with IVL<TS> data type precise to the second for an observation --> <effectiveTime> <low value='20110706122735-0800' /> <high value='20110706122815-0800' /> </effectiveTime> </pre>

6.4 US Realm Patient Name (PTN.US.FIELDDED)

[name: identifier urn:oid:2.16.840.1.113883.10.20.22.5.1 (open)]

Table 352: US Realm Patient Name (PTN.US.FIELDDED) Contexts

Contained By:	Contains:
Drug Monitoring Act (required)	

The US Realm Patient Name datatype flavor is a set of reusable constraints that can be used for the patient or any other person. It requires a first (given) and last (family) name. If a patient or person has only one name part (e.g., patient with first name only) place the name part in the field required by the organization. Use the appropriate nullFlavor, "Not Applicable" (NA), in the other field.

For information on mixed content see the Extensible Markup Language reference (<http://www.w3c.org/TR/2008/REC-xml-20081126/>).

Table 353: US Realm Patient Name (PTN.US.FIELDDED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
name (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1)					
@use	0..1	MAY		81-7154	urn:oid:2.16.840.1.113883.1.11.15913 (EntityNameUse)
family	1..1	SHALL	ST	81-7159	
@qualifier	0..1	MAY		81-7160	urn:oid:2.16.840.1.113883.11.20.9.26 (EntityPersonNamePartQualifier)
given	1..*	SHALL	ST	81-7157	
@qualifier	0..1	MAY		81-7158	urn:oid:2.16.840.1.113883.11.20.9.26 (EntityPersonNamePartQualifier)
prefix	0..*	MAY	ST	81-7155	
@qualifier	0..1	MAY		81-7156	urn:oid:2.16.840.1.113883.11.20.9.26 (EntityPersonNamePartQualifier)
suffix	0..1	MAY	ST	81-7161	
@qualifier	0..1	MAY		81-7162	urn:oid:2.16.840.1.113883.11.20.9.26 (EntityPersonNamePartQualifier)

1. **MAY** contain zero or one [0..1] **@use**, which **SHALL** be selected from ValueSet [EntityNameUse](#) urn:oid:2.16.840.1.113883.1.11.15913 **STATIC** 2005-05-01 (CONF:81-7154).
2. **SHALL** contain exactly one [1..1] **family** (CONF:81-7159).
 - a. This family **MAY** contain zero or one [0..1] **@qualifier**, which **SHALL** be selected from ValueSet [EntityPersonNamePartQualifier](#) urn:oid:2.16.840.1.113883.11.20.9.26 **STATIC** 2011-09-30 (CONF:81-7160).
3. **SHALL** contain at least one [1..*] **given** (CONF:81-7157).
 - a. Such givens **MAY** contain zero or one [0..1] **@qualifier**, which **SHALL** be selected from ValueSet [EntityPersonNamePartQualifier](#) urn:oid:2.16.840.1.113883.11.20.9.26 **STATIC** 2011-09-30 (CONF:81-7158).
 - b. The second occurrence of given (given2)) if provided, **SHALL** include middle name or middle initial (CONF:81-7163).
4. **MAY** contain zero or more [0..*] **prefix** (CONF:81-7155).
 - a. The prefix, if present, **MAY** contain zero or one [0..1] **@qualifier**, which **SHALL** be selected from ValueSet [EntityPersonNamePartQualifier](#) urn:oid:2.16.840.1.113883.11.20.9.26 **STATIC** 2011-09-30 (CONF:81-7156).

5. **MAY** contain zero or one [0..1] **suffix** (CONF:81-7161).
 - a. The suffix, if present, **MAY** contain zero or one [0..1] **@qualifier**, which **SHALL** be selected from ValueSet [EntityPersonNamePartQualifier](#)
urn:oid:2.16.840.1.113883.11.20.9.26 **STATIC** 2011-09-30 (CONF:81-7162).
6. **SHALL NOT** have mixed content except for white space (CONF:81-7278).

Table 354: EntityNameUse

Value Set: EntityNameUse urn:oid:2.16.840.1.113883.1.11.15913			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.htm			
Code	Code System	Code System OID	Print Name
A	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Artist/Stage
ABC	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Alphabetic
ASGN	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Assigned
C	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	License
I	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Indigenous/Tribal
IDE	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Ideographic
L	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Legal
P	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Pseudonym
PHON	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Phonetic
R	EntityNameUse	urn:oid:2.16.840.1.113883.5.45	Religious
...			

Table 355: EntityPersonNamePartQualifier

Value Set: EntityPersonNamePartQualifier urn:oid:2.16.840.1.113883.11.20.9.26			
Value Set Source: http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/in_frastructure/vocabulary/vocabulary.html			
Code	Code System	Code System OID	Print Name
AC	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	academic
AD	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	adopted
BR	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	birth
CL	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	callme
IN	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	initial
NB	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	nobility
PR	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	professional
SP	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	spouse
TITLE	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	title
VV	EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43	voorvoegsel

Figure 167: US Realm Patient Name Example

<pre> <name use="L"> <prefix qualifier="TITLE">Rep</suffix> <given>Evelyn</given> <given qualifier="CL">Eve</given> <family qualifier="BR">Everywoman</family> <suffix qualifier="AC">J.D.</suffix> </name> </pre>
--

6.5 US Realm Person Name (PN.US.FIELDDED)

[name: identifier urn:oid:2.16.840.1.113883.10.20.22.5.1.1 (open)]

Table 356: US Realm Person Name (PN.US.FIELDDED) Contexts

Contained By:	Contains:
US Realm Header (V2) (required)	

The US Realm Clinical Document Person Name datatype flavor is a set of reusable constraints that can be used for Persons.

Table 357: US Realm Person Name (PN.US.FIELDDED) Constraints Overview

XPath	Card.	Verb	Data Type	CONF#	Value
name (identifier: urn:oid:2.16.840.1.113883.10.20.22.5.1.1)					
name	1..1	SHALL		81-9368	

1. **SHALL** contain exactly one [1..1] **name** (CONF:81-9368).
 - a. The content of name **SHALL** be either a conformant Patient Name (PTN.US.FIELDDED), or a string (CONF:81-9371).
 - b. The string **SHALL NOT** contain name parts (CONF:81-9372).

7 TEMPLATE IDS IN THIS GUIDE

Table 358: Template List

Template Title	Template Type	templateId
QDM-Based QRDA (V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.24.1.2:2014-12-01
QRDA Category I Framework (V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.24.1.1:2014-12-01
US Realm Header (V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2014-06-09
Measure Section	section	urn:oid:2.16.840.1.113883.10.20.24.2.2
Measure Section QDM	section	urn:oid:2.16.840.1.113883.10.20.24.2.3
Patient Data Section	section	urn:oid:2.16.840.1.113883.10.20.17.2.4
Patient Data Section QDM (V2)	section	urn:hl7ii:2.16.840.1.113883.10.20.24.2.1:2014-12-01
Reporting Parameters Section	section	urn:oid:2.16.840.1.113883.10.20.17.2.1
Act Intolerance or Adverse Event Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01
Age Observation	entry	urn:oid:2.16.840.1.113883.10.20.22.4.31
Allergy - Intolerance Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09
Allergy Status Observation (DEPRECATED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.28:2014-06-09
Assessment Scale Observation	entry	urn:oid:2.16.840.1.113883.10.20.22.4.69
Assessment Scale Supporting Observation	entry	urn:oid:2.16.840.1.113883.10.20.22.4.86
Care Goal (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.1:2014-12-01
Communication from Patient to Provider (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.2:2014-12-01
Communication from Provider to Patient (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.3:2014-12-01
Communication from Provider to Provider (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.4:2014-12-01
Deceased Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.79:2014-06-09
Device Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.5:2014-12-01
Device Allergy (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.

Template Title	Template Type	templateId
		24.3.6:2014-12-01
Device Applied (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.7:2014-12-01
Device Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.8:2014-12-01
Device Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.9:2014-12-01
Device Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.10:2014-12-01
Diagnosis Active (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.11:2014-12-01
Diagnosis Active Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.121:2014-12-01
Diagnosis Family History (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.12:2014-12-01
Diagnosis Family History Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.112:2014-12-01
Diagnosis Inactive (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.13:2014-12-01
Diagnosis Inactive Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.123:2014-12-01
Diagnosis Resolved (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.14:2014-12-01
Diagnosis Resolved Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.125:2014-12-01
Diagnostic Study Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.15:2014-12-01
Diagnostic Study Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.16:2014-12-01
Diagnostic Study Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.17:2014-12-01
Diagnostic Study Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01
Diagnostic Study Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.19:2014-12-01
Diagnostic Study Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.20:2014-12-01
Discharge Medication - Active Medication (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.105:2014-12-01
Drug Monitoring Act	entry	urn:oid:2.16.840.1.113883.10.20.2.4.123
Drug Vehicle	entry	urn:oid:2.16.840.1.113883.10.20.2.4.24
eMeasure Reference QDM	entry	urn:oid:2.16.840.1.113883.10.20.2.4.3.97
Encounter Active (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.

Template Title	Template Type	templateId
		24.3.21:2014-12-01
Encounter Activity (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.49:2014-06-09
Encounter Diagnosis (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.80:2014-06-09
Encounter Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.22:2014-12-01
Encounter Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.23:2014-12-01
Encounter Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.24:2014-12-01
Entry Reference	entry	urn:oid:2.16.840.1.113883.10.20.2.4.122
External Document Reference	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.115:2014-06-09
Family History Death Observation	entry	urn:oid:2.16.840.1.113883.10.20.2.4.47
Family History Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.46:2014-06-09
Family History Organizer (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.45:2014-06-09
Functional Status Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.25:2014-12-01
Functional Status Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.26:2014-12-01
Functional Status Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.27:2014-12-01
Functional Status Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.28:2014-12-01
Goal Observation	entry	urn:oid:2.16.840.1.113883.10.20.2.4.121
Immunization Medication Information (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09
Incision Datetime	entry	urn:oid:2.16.840.1.113883.10.20.2.4.3.89
Indication (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09
Instruction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09
Intervention Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.29:2014-12-01
Intervention Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.30:2014-12-01
Intervention Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.31:2014-12-01
Intervention Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.

Template Title	Template Type	templateId
		24.3.32:2014-12-01
Intervention Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.33:2014-12-01
Intervention Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.34:2014-12-01
Laboratory Test Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.35:2014-12-01
Laboratory Test Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.36:2014-12-01
Laboratory Test Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.37:2014-12-01
Laboratory Test Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01
Laboratory Test Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.39:2014-12-01
Laboratory Test Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.40:2014-12-01
Measure Reference	entry	urn:oid:2.16.840.1.113883.10.20.24.3.98
Medication Active (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01
Medication Activity (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09
Medication Administered (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.42:2014-12-01
Medication Adverse Effect (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.43:2014-12-01
Medication Allergy (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.44:2014-12-01
Medication Dispense (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.18:2014-06-09
Medication Dispensed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.45:2014-12-01
Medication Information (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09
Medication Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.46:2014-12-01
Medication Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.47:2014-12-01
Medication Supply Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.17:2014-06-09
Medication Supply Request (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.99:2015-04-05
Patient Care Experience (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.48:2014-12-01
Patient Characteristic Clinical Trial	entry	urn:hl7ii:2.16.840.1.113883.10.20.

Template Title	Template Type	templateId
Participant (V2)		24.3.51:2014-12-01
Patient Characteristic Estimated Date of Conception (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.102:2014-12-01
Patient Characteristic Expired (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.54:2014-12-01
Patient Characteristic Gestational Age (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.101:2014-12-01
Patient Characteristic Observation Assertion (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.103:2014-12-01
Patient Characteristic Payer	entry	urn:oid:2.16.840.1.113883.10.20.24.3.55
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Physical Exam Finding (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.57:2014-12-01
Physical Exam Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.58:2014-12-01
Physical Exam Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.59:2014-12-01
Physical Exam Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.60:2014-12-01
Planned Act (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09
Planned Coverage	entry	urn:oid:2.16.840.1.113883.10.20.24.129
Planned Encounter (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09
Planned Medication Activity (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09
Planned Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09
Planned Procedure (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09
Planned Supply (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09
Precondition for Substance Administration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.25:2014-06-09
Priority Preference	entry	urn:oid:2.16.840.1.113883.10.20.24.143
Problem Concern Act (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.3:2014-06-09
Problem Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09
Problem Status (DEPRECATED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.6:2014-06-09
Problem Status Active (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.

Template Title	Template Type	templateId
		24.3.94:2015-04-06
Problem Status Inactive (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.95:2014-12-01
Problem Status Resolved (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.96:2014-12-01
Procedure Activity Act (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.12:2014-06-09
Procedure Activity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.13:2014-06-09
Procedure Activity Procedure (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09
Procedure Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.61:2014-12-01
Procedure Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.62:2014-12-01
Procedure Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.63:2014-12-01
Procedure Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01
Procedure Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.65:2014-12-01
Procedure Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.66:2014-12-01
Product Instance	entry	urn:oid:2.16.840.1.113883.10.20.2.4.37
Prognosis Observation	entry	urn:oid:2.16.840.1.113883.10.20.2.4.113
Provider Care Experience (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.67:2014-12-01
Provider Characteristic Observation Assertion	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.114:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Reaction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Reaction Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Reporting Parameters Act	entry	urn:oid:2.16.840.1.113883.10.20.17.3.8
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Result Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.

Template Title	Template Type	templateId
		22.4.2:2014-06-09
Risk Category Assessment (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.69:2014-12-01
Service Delivery Location	entry	urn:oid:2.16.840.1.113883.10.20.2.4.32
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
Status	entry	urn:oid:2.16.840.1.113883.10.20.2.4.93
Substance Administered Act	entry	urn:oid:2.16.840.1.113883.10.20.2.4.118
Substance or Device Allergy - Intolerance Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09
Substance Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.75:2014-12-01
Symptom Active (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.76:2014-12-01
Symptom Active Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.120:2014-12-01
Symptom Assessed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.77:2014-12-01
Symptom Assessed Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.127:2014-12-01
Symptom Inactive (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.78:2014-12-01
Symptom Inactive Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.122:2014-12-01
Symptom Resolved (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.79:2014-12-01
Symptom Resolved Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.124:2014-12-01
Target Outcome	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.119:2014-12-01
Transfer From (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.81:2014-12-01
Transfer To (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.82:2014-12-01
Facility Location	subentry	urn:oid:2.16.840.1.113883.10.20.2.4.3.100
Fulfills	subentry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.126:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
US Realm Address (AD.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.2
US Realm Date and Time	unspecified	urn:oid:2.16.840.1.113883.10.20.2

Template Title	Template Type	templateId
(DTM.US.FIELDDED)		2.5.4
US Realm Patient Name (PTN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2 2.5.1
US Realm Person Name (PN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2 2.5.1.1

Table 359: Template Containments

Template Title	Template Type	templateId
QDM-Based QRDA (V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.24.1.2:2014-12-01
Measure Section QDM	section	urn:oid:2.16.840.1.113883.10.20.24.2.3
eMeasure Reference QDM	entry	urn:oid:2.16.840.1.113883.10.20.24.3.97
Patient Data Section QDM (V2)	section	urn:hl7ii:2.16.840.1.113883.10.20.24.2.1:2014-12-01
Care Goal (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.1:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Target Outcome	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.119:2014-12-01
Communication from Patient to Provider (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.2:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Communication from Provider to Patient (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.3:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Communication from Provider to Provider (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.4:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Device Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.5:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reaction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Device Allergy (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.6:2014-12-01

Template Title	Template Type	templateId
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reaction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Device Applied (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.7:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Device Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.8:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reaction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Device Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.9:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Device Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.10:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Diagnosis Active Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.121:2014-12-01
Diagnosis Active (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.11:2014-12-01

Template Title	Template Type	templateId
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
Diagnosis Family History (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.12:2014-12-01
Diagnosis Family History Observation	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.112:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Diagnosis Inactive Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.123:2014-12-01
Diagnosis Inactive (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.13:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
Diagnosis Resolved Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.125:2014-12-01
Diagnosis Resolved (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.14:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
Diagnostic Study Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.15:2014-12-01
Diagnostic Study Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01
Facility Location	subentry	urn:oid:2.16.840.1.113883.10.20.24.3.100

Template Title	Template Type	templateId
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Diagnostic Study Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.16:2014-12-01
Diagnostic Study Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01
Facility Location	subentry	urn:oid:2.16.840.1.113883.10.20.24.3.100
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01

Template Title	Template Type	templateId
Reaction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Diagnostic Study Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.17:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Diagnostic Study Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01
Facility Location	subentry	urn:oid:2.16.840.1.113883.10.20.2.4.3.100
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.2.4.3.93
Status	entry	urn:oid:2.16.840.1.113883.10.20.2.4.3.93
Diagnostic Study Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.19:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Discharge Medication - Active Medication (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.105:2014-12-01
Medication Active (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01

Template Title	Template Type	templateId
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Encounter Active (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.21:2014-12-01
Facility Location	subentry	urn:oid:2.16.840.1.113883.10.20.24.3.100
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Encounter Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.22:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.24.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Encounter Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.23:2014-12-01
Facility Location	subentry	urn:oid:2.16.840.1.113883.10.20.24.3.100
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Encounter Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.24:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.24.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01

Template Title	Template Type	templateId
Functional Status Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.25:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Functional Status Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.26:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Functional Status Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.27:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Intervention Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.29:2014-12-01
Intervention Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93

Template Title	Template Type	templateId
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Intervention Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.30:2014-12-01
Intervention Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Intervention Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.31:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.24.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Intervention Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01

Template Title	Template Type	templateId
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Intervention Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.33:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.24.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Laboratory Test Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.35:2014-12-01
Laboratory Test Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Laboratory Test Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.36:2014-12-01
Laboratory Test Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01

Template Title	Template Type	templateId
Laboratory Test Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.37:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Laboratory Test Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Laboratory Test Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.39:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Medication Active (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Medication Administered (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.42:2014-12-01
Medication Activity (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Drug Monitoring Act	entry	urn:oid:2.16.840.1.113883.10.20.2.4.123

Template Title	Template Type	templateId
US Realm Patient Name (PTN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.1
Drug Vehicle	entry	urn:oid:2.16.840.1.113883.10.20.2.4.24
Indication (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09
Instruction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09
Medication Dispense (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.18:2014-06-09
Immunization Medication Information (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09
Medication Information (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09
Medication Supply Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.17:2014-06-09
Immunization Medication Information (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09
Instruction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09
Medication Information (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09
US Realm Address (AD.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.2.5.2
Medication Information (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09
Medication Supply Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.17:2014-06-09
Immunization Medication Information (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.54:2014-06-09
Instruction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09
Medication Information (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.23:2014-06-09
Precondition for Substance Administration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.25:2014-06-09
Reaction Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09
Procedure Activity Procedure (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Indication (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.19:2014-06-09
Instruction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.20:2014-06-09

Template Title	Template Type	templateId
Product Instance	entry	urn:oid:2.16.840.1.113883.10.20.2.4.37
Service Delivery Location	entry	urn:oid:2.16.840.1.113883.10.20.2.4.32
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
Substance Administered Act	entry	urn:oid:2.16.840.1.113883.10.20.2.4.118
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Medication Adverse Effect (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.43:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reaction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Medication Allergy (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.44:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reaction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Medication Dispensed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.45:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Medication Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.46:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reaction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Medication Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.47:2014-12-01

Template Title	Template Type	templateId
Medication Supply Request (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.99:2015-04-05
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Patient Care Experience (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.48:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Patient Characteristic Clinical Trial Participant (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.51:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Patient Characteristic Expired (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.54:2014-12-01
Patient Characteristic Observation Assertion (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.103:2014-12-01
Patient Characteristic Payer	entry	urn:oid:2.16.840.1.113883.10.20.24.3.55
Physical Exam Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.58:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.24.1.19
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Physical Exam Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.59:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Physical Exam Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.60:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.24.1.19

Template Title	Template Type	templateId
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Procedure Adverse Event (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.61:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Procedure Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01
Incision Datetime	entry	urn:oid:2.16.840.1.113883.10.20.24.3.89
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Procedure Intolerance (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.62:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Procedure Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01
Incision Datetime	entry	urn:oid:2.16.840.1.113883.10.20.24.3.89
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01

Template Title	Template Type	templateId
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Procedure Order (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.63:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.24.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Procedure Performed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01
Incision Datetime	entry	urn:oid:2.16.840.1.113883.10.20.24.3.89
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Radiation Dosage and Duration (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Result (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Status	entry	urn:oid:2.16.840.1.113883.10.20.24.3.93
Procedure Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.65:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.24.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01

Template Title	Template Type	templateId
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Provider Care Experience (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.67:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Provider Characteristic Observation Assertion	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.114:2014-12-01
Risk Category Assessment (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.69:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Substance Recommended (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.75:2014-12-01
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.2.4.119
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reason (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Symptom Active Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.120:2014-12-01
Symptom Active (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.76:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
Symptom Assessed Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.127:2014-12-01
Symptom Assessed (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.77:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09

Template Title	Template Type	templateId
Symptom Inactive Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.122:2014-12-01
Symptom Inactive (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.78:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
Symptom Resolved Concern Act	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.124:2014-12-01
Symptom Resolved (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.79:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Severity Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09
Transfer From (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.81:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Transfer To (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.82:2014-12-01
Patient Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Provider Preference (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Reporting Parameters Section	section	urn:oid:2.16.840.1.113883.10.20.17.2.1
Reporting Parameters Act	entry	urn:oid:2.16.840.1.113883.10.20.17.3.8
QRDA Category I Framework (V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.24.1.1:2014-12-01
Measure Section	section	urn:oid:2.16.840.1.113883.10.20.24.2.2
Measure Reference	entry	urn:oid:2.16.840.1.113883.10.20.24.3.98
Patient Data Section	section	urn:oid:2.16.840.1.113883.10.20.17.2.4
Reporting Parameters Section	section	urn:oid:2.16.840.1.113883.10.20.17.2.1

Template Title	Template Type	templateId
Reporting Parameters Act	entry	urn:oid:2.16.840.1.113883.10.20.17.3.8
US Realm Header (V2)	document	urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2014-06-09
US Realm Address (AD.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.2
US Realm Date and Time (DTM.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.4
US Realm Person Name (PN.US.FIELDDED)	unspecified	urn:oid:2.16.840.1.113883.10.20.22.5.1.1
Act Intolerance or Adverse Event Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01
Reaction (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Deceased Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.79:2014-06-09
Problem Observation (V2)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09
Age Observation	entry	urn:oid:2.16.840.1.113883.10.20.22.4.31
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.22.4.119
Priority Preference	entry	urn:oid:2.16.840.1.113883.10.20.22.4.143
Author Participation	unspecified	urn:oid:2.16.840.1.113883.10.20.22.4.119
Problem Status (DEPRECATED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.22.4.6:2014-06-09
Prognosis Observation	entry	urn:oid:2.16.840.1.113883.10.20.22.4.113
Diagnostic Study Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.20:2014-12-01
Functional Status Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.28:2014-12-01
Intervention Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.34:2014-12-01
Laboratory Test Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.40:2014-12-01
Patient Characteristic Estimated Date of Conception (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.102:2014-12-01
Patient Characteristic Gestational Age (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.101:2014-12-01
Physical Exam Finding (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.57:2014-12-01
Problem Status Active (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.94:2015-04-06

Template Title	Template Type	templateId
Problem Status Inactive (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.95:2014-12-01
Problem Status Resolved (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.96:2014-12-01
Procedure Result (RETIRED)	entry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.66:2014-12-01
Fulfills	subentry	urn:hl7ii:2.16.840.1.113883.10.20.24.3.126:2014-12-01

8 VALUE SETS IN THIS GUIDE

Table 360: Value Sets

Name	OID	URL
Act Priority	urn:oid:2.16.840.1.113883.1.11.16866	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.htm
ActStatus	urn:oid:2.16.840.1.113883.1.11.159331	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
AdministrableDrugForm	urn:oid:2.16.840.1.113883.1.11.14570	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Administrative Gender (HL7 V3)	urn:oid:2.16.840.1.113883.1.11.1	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
AgePQ_UCUM	urn:oid:2.16.840.1.113883.11.20.9.21	http://unitsofmeasure.org/ucum.html
Allergy/Adverse Event Type	urn:oid:2.16.840.1.113883.3.88.12.3221.6.2	https://vsac.nlm.nih.gov
Body Site	urn:oid:2.16.840.1.113883.3.88.12.3221.8.9	http://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.3221.8.9
Clinical Substance	urn:oid:2.16.840.1.113762.1.4.1010.2	https://vsac.nlm.nih.gov/
Country	urn:oid:2.16.840.1.113883.3.88.12.80.63	http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm
CVX Vaccines Administered - Vaccine Set	urn:oid:2.16.840.1.113762.1.4.1010.6	http://www2a.cdc.gov/vaccines/iis/iisstandards/vaccines.asp?rpt=cvx
Detailed Ethnicity	urn:oid:2.16.840.1.114222.4.11.877	http://phinvads.cdc.gov/vads/ViewValueSet.action?pid=34D34BBC-617F-DD11-B38D-00188B398520#
Encounter Planned	urn:oid:2.16.840.1.113883.11.20.9.52	http://vtsl.vetmed.vt.edu/TerminologyMgt/RF2Browser/ISA.cfm?SCT_ConceptID=308335008
EncounterTypeCode	urn:oid:2.16.840.1.113883.3.88.12.80.32	http://www.amacodingonline.com/
EntityNameUse	urn:oid:2.16.840.1.113883.1.11.15913	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.htm
EntityPersonNamePartQualifier	urn:oid:2.16.840.1.113883.11.20.9	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.htm

Name	OID	URL
	.26	er/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Ethnicity	urn:oid:2.16.840.1.114222.4.11.837	https://vsac.nlm.nih.gov/
Family Member Value Set	urn:oid:2.16.840.1.113883.1.11.19579	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.htm
Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.114222.4.11.1066	http://www.nucc.org/index.php?option=com_content&view=article&id=14&Itemid=125
HealthcareServiceLocation	urn:oid:2.16.840.1.113883.1.11.20275	http://phinivads.cdc.gov/vads/SearchAllVocab_search.action?searchOptions.searchText=Healthcare+Service+Location+%28NHSN%29
HL7 BasicConfidentialityKind	urn:oid:2.16.840.1.113883.1.11.16926	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
INDRoleclassCodes	urn:oid:2.16.840.1.113883.11.20.933	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Language	urn:oid:2.16.840.1.113883.1.11.11526	http://www.loc.gov/standards/iso639-2/php/code_list.php
LanguageAbilityMode	urn:oid:2.16.840.1.113883.1.11.12249	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.1.11.12199	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Marital Status	urn:oid:2.16.840.1.113883.1.11.12212	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Medication Clinical Drug	urn:oid:2.16.840.1.113762.1.4.1010.4	http://phinivads.cdc.gov/vads/ViewValueSet.action?id=239BEF3E-971C-DF11-B334-0015173D1785
Medication Fill Status	urn:oid:2.16.840.1.113883.3.88.1280.64	https://phinivads.cdc.gov/
Medication Route FDA	urn:oid:2.16.840.1.113883.3.88.123221.8.7	https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.3221.8.7
MoodCodeEvnInt	urn:oid:2.16.840.1.113883.11.20.918	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html

Name	OID	URL
Observation Interpretation (HL7)	urn:oid:2.16.840.1.113883.1.11.78	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.htm
ParticipationFunction	urn:oid:2.16.840.1.113883.1.11.10267	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.htm
Patient Education	urn:oid:2.16.840.1.113883.11.20.9.34	http://browser.ihtsdotools.org/
PatientLanguage	urn:oid:2.16.840.1.113883.11.20.9.64	http://www.loc.gov/standards/iso639-2/php/code_list.php
Payer	urn:oid:2.16.840.1.114222.4.11.3591	http://www.phdsc.org/standards/payer-typology.asp
Personal And Legal Relationship Role Type	urn:oid:2.16.840.1.113883.11.20.12.1	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Planned moodCode (Act/Encounter/Procedure)	urn:oid:2.16.840.1.113883.11.20.9.23	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Planned moodCode (Observation)	urn:oid:2.16.840.1.113883.11.20.9.25	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Planned moodCode (SubstanceAdministration/Supply)	urn:oid:2.16.840.1.113883.11.20.9.24	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
PostalAddressUse	urn:oid:2.16.840.1.113883.1.11.10637	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
PostalCode	urn:oid:2.16.840.1.113883.3.88.12.80.2	http://ushik.ahrq.gov/ViewItemDetails?system=mdr&itemKey=86671000
Priority Level	urn:oid:2.16.840.1.113883.11.20.9.60	https://vsac.nlm.nih.gov
Problem	urn:oid:2.16.840.1.113883.3.88.12.3221.7.4	http://phinvals.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.113883.3.88.12.3221.7.4
Problem Severity	urn:oid:2.16.840.1.113883.3.88.12.3221.6.8	https://vsac.nlm.nih.gov
Problem Status	urn:oid:2.16.840.1.113883.3.88.12.80.68	https://vsac.nlm.nih.gov
Problem Type	urn:oid:2.16.840.1.113883.3.88.12.3221.7.2	http://www.loinc.org/
ProblemAct statusCode	urn:oid:2.16.840.1.113883.11.20.9	http://www.hl7.org/documentcenter

Name	OID	URL
	.19	er/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
ProcedureAct statusCode	urn:oid:2.16.840.1.113883.11.20.9.22	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Race	urn:oid:2.16.840.1.113883.1.11.14.914	https://vsac.nlm.nih.gov/
Race Category Excluding Nulls	urn:oid:2.16.840.1.113883.3.2074.1.1.3	https://vsac.nlm.nih.gov/
Religious Affiliation	urn:oid:2.16.840.1.113883.1.11.19.185	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Result Status	urn:oid:2.16.840.1.113883.11.20.9.39	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
Specific Vaccine Clinical Drug	urn:oid:2.16.840.1.113762.1.4.1010.10	https://vsac.nlm.nih.gov/
StateValueSet	urn:oid:2.16.840.1.113883.3.88.12.80.1	http://www.census.gov/geo/reference/ansi_statetables.html
Substance-Reactant for Intolerance	urn:oid:2.16.840.1.113762.1.4.1010.1	http://www.hl7.org
Telecom Use (US Realm Header)	urn:oid:2.16.840.1.113883.11.20.9.20	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html
UnitsOfMeasureCaseSensitive	urn:oid:2.16.840.1.113883.1.11.12.839	http://unitsofmeasure.org/ucum.html
Vaccine Clinical Drug	urn:oid:2.16.840.1.113762.1.4.1010.8	https://vsac.nlm.nih.gov/
x ServiceEventPerformer	urn:oid:2.16.840.1.113883.1.11.19.601	http://www.hl7.org/documentcenter/public/standards/vocabulary/vocabulary_tables/infrastructure/vocabulary/vocabulary.html

9 CODE SYSTEMS IN THIS GUIDE

Table 361: Code Systems

Name	OID
ActCode	urn:oid:2.16.840.1.113883.5.4
ActMood	urn:oid:2.16.840.1.113883.5.1001
ActPriority	urn:oid:2.16.840.1.113883.5.7
ActStatus	urn:oid:2.16.840.1.113883.5.14
AddressUse	urn:oid:2.16.840.1.113883.5.1119
AdministrativeGender	urn:oid:2.16.840.1.113883.5.1
CDC Vaccine Code (CVX)	urn:oid:2.16.840.1.113883.12.292
ConfidentialityCode	urn:oid:2.16.840.1.113883.5.25
Country	urn:oid:2.16.840.1.113883.3.88.12.80.63
CPT4	urn:oid:2.16.840.1.113883.6.12
EntityClass	urn:oid:2.16.840.1.113883.5.41
EntityNamePartQualifier	urn:oid:2.16.840.1.113883.5.43
EntityNameUse	urn:oid:2.16.840.1.113883.5.45
FDA RouteOfAdministration	urn:oid:2.16.840.1.113883.3.26.1.1
FIPS 5-2 (State)	urn:oid:2.16.840.1.113883.6.92
Healthcare Provider Taxonomy (HIPAA)	urn:oid:2.16.840.1.113883.6.101
HITSP-CS-83	urn:oid:2.16.840.1.113883.5.83
HL7 HealthcareServiceLocation	urn:oid:2.16.840.1.113883.6.259
HL7ActClass	urn:oid:2.16.840.1.113883.5.6
HL7ActRelationshipType	urn:oid:2.16.840.1.113883.5.1002
HL7NullFlavor	urn:oid:2.16.840.1.113883.5.1008
HL7ParticipationType	urn:oid:2.16.840.1.113883.5.90
ICD10CM	urn:oid:2.16.840.1.113883.6.90
Language	urn:oid:2.16.840.1.113883.6.121
LanguageAbilityMode	urn:oid:2.16.840.1.113883.5.60
LanguageAbilityProficiency	urn:oid:2.16.840.1.113883.5.61
LOINC	urn:oid:2.16.840.1.113883.6.1
MaritalStatus	urn:oid:2.16.840.1.113883.5.2
NDFRT	urn:oid:2.16.840.1.113883.3.26.1.5
orderableDrugForm	urn:oid:2.16.840.1.113883.5.85
participationFunction	urn:oid:2.16.840.1.113883.5.88
Participationsignature	urn:oid:2.16.840.1.113883.5.89
Race & Ethnicity - CDC	2.16.840.1.113883.6.238
Race & Ethnicity - CDC	urn:oid:2.16.840.1.113883.6.238
ReligiousAffiliation	urn:oid:2.16.840.1.113883.5.1076

Name	OID
RoleClass	urn:oid:2.16.840.1.113883.5.110
RoleCode	urn:oid:2.16.840.1.113883.5.111
RxNorm	urn:oid:2.16.840.1.113883.6.88
SNOMED CT	urn:oid:2.16.840.1.113883.6.96
Source of Payment Typology (PHDSC)	urn:oid:2.16.840.1.113883.3.221.5
UCUM	urn:oid:2.16.840.1.113883.6.8
Unique Ingredient Identifier (UNII)	urn:oid:2.16.840.1.113883.4.9
USPostalCodes	urn:oid:2.16.840.1.113883.6.231

10 RETIRED TEMPLATES

Table 362: Retired Templates

Name	OID	Description
Diagnostic Study Result (RETIRED)	urn:hl7ii:2.16.840.1.113883.10 .20.24.3.20:2014-12-01	<p>This template represents the QDM datatype: Diagnostic Study, Result.</p> <p>This datatype describes a result of a diagnostic study on a patient in concepts or numerical values. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others. A time/date stamp is required.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Diagnostic Study, Result has been removed.</p>
Functional Status Result (RETIRED)	urn:hl7ii:2.16.840.1.113883.10 .20.24.3.28:2014-12-01	<p>This template represents the QDM datatype: Functional Status, Result.</p> <p>This clinical statement represents the results of a functional status assessment. This template uses the Result Observation template to represent physical or behavioral performance.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS</p>

Name	OID	Description
		<p>TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Functional Status, Result has been removed.</p>
Intervention Result (RETIRED)	urn:hl7ii:2.16.840.1.113883.10.20.24.3.34:2014-12-01	<p>This template represents the QDM datatype: Intervention, Result.</p> <p>This template represents the finding identified as a result of an intervention. A date/time stamp is required, moodCode is constrained to “EVN” and statusCode is constrained to “completed”.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Intervention, Result has been removed.</p>
Laboratory Test Result (RETIRED)	urn:hl7ii:2.16.840.1.113883.10.20.24.3.40:2014-12-01	<p>This template represents the QDM datatype: Laboratory Test, Result.</p> <p>This template describes the result of a study in the clinical laboratory (traditionally chemistry, hematology, microbiology, serology, urinalysis, blood bank). A time/date stamp is required.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Laboratory Test, Result has been removed.</p>
Patient Characteristic Estimated Date of Conception	urn:hl7ii:2.16.840.1.113883.10.20.24.3.102:2014-12-01	This clinical statement represents the probable date a

Name	OID	Description
(RETIRED)		<p>person became pregnant.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Patient Characteristic, Estimated Date of Conception has been removed. Use Patient Characteristic Observation Assertion.</p>
Patient Characteristic Gestational Age (RETIRED)	urn:hl7ii:2.16.840.1.113883.10.20.24.3.101:2014-12-01	<p>This clinical statement represents the length of the gestation of a pregnancy. Human gestation is commonly stated in weeks. If more granular measurement is needed the length can be stated in days. For example, 30 weeks and 2 days would be represented as 212 days.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Patient Characteristic, Gestational Age has been removed. Use Patient Characteristic Observation Assertion.</p>
Physical Exam Finding (RETIRED)	urn:hl7ii:2.16.840.1.113883.10.20.24.3.57:2014-12-01	<p>This template represents the QDM datatype: Physical Exam, Finding.</p> <p>This datatype describes the result or finding of a physical exam. A time/date stamp is required.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS</p>

Name	OID	Description
		<p>TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Physical Exam, Finding has been removed.</p>
<p>Problem Status Active (RETIRED)</p>	<p>urn:hl7ii:2.16.840.1.113883.10.20.24.3.94:2015-04-06</p>	<p>This template records that the indicated problem is active.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: Per the explanation in Volume 1 "Determining a Clinical Statement's Status", the status of a problem is determined based on attributes of the Problem Observation.</p>
<p>Problem Status Inactive (RETIRED)</p>	<p>urn:hl7ii:2.16.840.1.113883.10.20.24.3.95:2014-12-01</p>	<p>This template records that the indicated problem is resolved.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: Per the explanation in Volume 1 "Determining a Clinical Statement's Status", the status of a problem is determined based on attributes of the Problem Observation.</p>
<p>Problem Status Resolved (RETIRED)</p>	<p>urn:hl7ii:2.16.840.1.113883.10.20.24.3.96:2014-12-01</p>	<p>Records that the indicated problem is resolved.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: Per the explanation in Volume 1 "Determining a Clinical Statement's Status", the status of a problem is determined based on attributes of the</p>

Name	OID	Description
		Problem Observation.
Procedure Result (RETIRED)	urn:hl7ii:2.16.840.1.113883.10.20.24.3.66:2014-12-01	<p>This template represents the QDM datatype: Procedure, Result.</p> <p>This datatype represents the findings identified as a result of the procedure. MoodCode has been constrained to “EVN” and statusCode has been constrained to “completed”.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Procedure, Result has been removed.</p>

11 CHANGES FROM PREVIOUS VERSION

11.1 QDM-Based QRDA (V2)

QDM-Based QRDA (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.1.2:2014-12-01)

Change	Old	New
Name	QDM-Based QRDA	QDM-Based QRDA (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.1.2	urn:hl7ii:2.16.840.1.113883.10.20.24.1.2:2014-12-01
Description	A QDM-Based QRDA is a QRDA where the patient data entry-level templates are derived from the National Quality Forum (NQF) Quality Data Model (QDM). A QDM-Based QRDA defines explicitly how an HQMF eMeasure is referenced. This template describes an optional documentationOf/serviceEvent where multiple provider and organization ids can be represented	A QDM-Based QRDA is a QRDA where the patient data entry-level templates are derived from the National Quality Forum (NQF) Quality Data Model (QDM). A QDM-Based QRDA defines explicitly how a Health Quality Measures Format (HQMF) eMeasure is referenced. This template describes an optional documentationOf/serviceEvent where multiple provider and organization ids can be represented
Implied Template	QRDA Category I Framework (urn:oid:2.16.840.1.113883.10.20.24.1.1)	QRDA Category I Framework (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.1.1:2014-12-01)
CONF #: 1140-26944 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-26944).
CONF #: 1140-27570 Added		This patientRole SHALL contain exactly one [1..1] patient (CONF:1140-27570).
CONF #: 1140-27571 Added		This patient SHALL contain exactly one [1..1] birthTime (CONF:1140-27571). Note: QDM Datatype: Patient Characteristic, Birth Date
CONF #: 1140-27572 Added		This patient SHALL contain exactly one [1..1] administrativeGenderCode (CONF:1140-27572). Note: QDM Datatype: Patient Characteristic, Sex
CONF #: 1140-27573 Added		This patient SHALL contain exactly one [1..1] raceCode (CONF:1140-27573). Note: QDM Datatype: Patient Characteristic, Race
CONF #: 1140-27574 Added		This patient SHALL contain exactly one [1..1] ethnicGroupCode

Change	Old	New
		(CONF:1140-27574). Note: QDM Datatype: Patient Characteristic, Ethnicity
CONF #: 1140-28239 Added		This custodian SHALL contain exactly one [1..1] assignedCustodian (CONF:1140- 28239).
CONF #: 1140-28240 Added		This assignedCustodian SHALL contain exactly one [1..1] representedCustodianOrganization (CONF:1140-28240).
CONF #: 1140-28241 Added		This representedCustodianOrganization SHOULD contain zero or one [0..1] id (CONF:1140-28241) such that it
CONF #: 1140-28242 Added		This representedCustodianOrganization SHOULD contain zero or one [0..1] id (CONF:1140-28242) such that it
CONF #: 1140-28243 Added		This representedCustodianOrganization SHOULD contain zero or one [0..1] id (CONF:1140-28243) such that it
CONF #: 1140-28244 Added		SHALL contain exactly one [1..1] @root="2.16.840.1.113883.4.336" CMS Certification Number (CONF:1140-28244).
CONF #: 1140-28245 Added		SHALL contain exactly one [1..1] @extension (CONF:1140-28245).
CONF #: 1140-28246 Added		SHALL contain exactly one [1..1] @root="2.16.840.1.113883.4.2" Tax ID Number (CONF:1140-28246).
CONF #: 1140-28247 Added		SHALL contain exactly one [1..1] @extension (CONF:1140-28247).
CONF #: 1140-28248 Added		SHALL contain exactly one [1..1] @root="1.3.6.1.4.1.33895" The Joint Commission's Health Care Organization (HCO) Identification Number (CONF:1140-28248).
CONF #: 1140-28249 Added		SHALL contain exactly one [1..1] @extension (CONF:1140-28249).
CONF #: 1140-12973 Modified	SHALL contain exactly one [1..1] component	Heading: component SHALL contain exactly one [1..1] component
CONF #: 1140-16579 Modified	MAY contain zero or one [0..1] documentationOf	Heading: documentationOf MAY contain zero or one [0..1] documentationOf
CONF #: 1140-16588 Modified	SHALL contain zero or one [0..1] @root="2.16.840.1.113883.4.6" National Provider ID	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.4.6" National Provider ID

Change	Old	New
CONF #: 1140-16598 Modified	SHALL contain exactly one [1..1] recordTarget	Heading: recordTarget SHALL contain exactly one [1..1] recordTarget
CONF #: 1140-16600 Modified	SHALL contain exactly one [1..1] custodian	Heading: custodian SHALL contain exactly one [1..1] custodian
CONF #: 1140-16703 Modified	MAY contain zero or more [0..*] informationRecipient	Heading: informationRecipient MAY contain zero or more [0..*] informationRecipient
CONF #: 1140-17093 Modified	This component SHALL contain exactly one [1..1] Patient Data Section QDM (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.2.1)	This component SHALL contain exactly one [1..1] Patient Data Section QDM (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.2.1:2014-12-01)

11.2 QRDA Category I Framework (V2)

QRDA Category I Framework (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.1.1:2014-12-01)

Change	Old	New
Name	QRDA Category I Framework	QRDA Category I Framework (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.1.1	urn:hl7ii:2.16.840.1.113883.10.20.24.1.1:2014-12-01
Implied Template	US Realm Header (urn:oid:2.16.840.1.113883.10.20.22.1.1)	US Realm Header (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.1.1:2014-06-09)
CONF #: 1140-27005 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27005).
CONF #: 1140-28137 Added		This code SHALL contain exactly one [1..1] @code="55182-0" Quality Measure Report (CONF:1140-28137).
CONF #: 1140-28138 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28138).
CONF #: 1140-28387 Added		This recordTarget SHALL contain exactly one [1..1] patientRole (CONF:1140-28387).
CONF #: 1140-28388 Added		This patientRole MAY contain zero or one [0..1] patient (CONF:1140-28388).
CONF #: 1140-28389 Added		The patient, if present, MAY contain zero or more [0..*] sdtc:ethnicGroupCode, which SHALL be selected from ValueSet Detailed Ethnicity urn:oid:2.16.840.1.114222.4.11.877 DYNAMIC (CONF:1140-28389).
CONF #: 67-26958 Removed	This representedCustodianOrganization SHOULD contain zero or one [0..1] id (CONF:67-26958) such that it	
CONF #: 67-26960 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.4.336" CMS Certification Number (CONF:67-26960).	
CONF #: 67-26959 Removed	SHALL contain exactly one [1..1] @extension (CONF:67-26959).	
CONF #: 67-26999 Removed	This representedCustodianOrganization SHOULD contain zero or one [0..1]	

Change	Old	New
	id (CONF:67-26999) such that it	
CONF #: 67-27000 Removed	This representedCustodianOrganization SHOULD contain zero or one [0..1] id (CONF:67-27000) such that it	
CONF #: 67-27001 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.4.2" Tax ID Number (CONF:67-27001).	
CONF #: 67-27002 Removed	SHALL contain exactly one [1..1] @extension (CONF:67-27002).	
CONF #: 67-27003 Removed	SHALL contain exactly one [1..1] @root="1.3.6.1.4.1.33895" The Joint Commission's Health Care Organization (HCO) Identification Number (CONF:67-27003).	
CONF #: 67-27004 Removed	SHALL contain exactly one [1..1] @extension (CONF:67-27004).	
CONF #: 1140-12911 Modified	SHALL contain exactly one [1..1] code="55182-0" Quality Measure Report (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1 STATIC)	SHALL contain exactly one [1..1] code
CONF #: 1140-12913 Modified	SHALL contain exactly one [1..1] recordTarget	Heading: recordTarget SHALL contain exactly one [1..1] recordTarget
CONF #: 1140-12914 Modified	SHALL contain exactly one [1..1] custodian	Heading: custodian SHALL contain exactly one [1..1] custodian
CONF #: 1140-12918 Modified	SHALL contain exactly one [1..1] component	Heading: component SHALL contain exactly one [1..1] component
CONF #: 1140-13817 Modified	SHALL contain exactly one [1..1] legalAuthenticator	Heading: legalAuthenticator SHALL contain exactly one [1..1] legalAuthenticator

11.3 Act Intolerance or Adverse Event Observation (V2)

Act Intolerance or Adverse Event Observation (V2)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01)

Change	Old	New
Name	Act Intolerance or Adverse Event Observation	Act Intolerance or Adverse Event Observation (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.104	urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01
Description	This clinical statement represents that an adverse event or some other type of intolerance to an act (e.g., a procedure) exists or does not exist. The cause of the adverse event is represented via an entryRelationship of type "CAUS" (has cause).	This clinical statement represents that an adverse event or some other type of intolerance to an act (e.g., a procedure) exists or does not exist. The cause of the adverse event is represented via an entryRelationship of type "CAUS" (has cause). Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.
CONF #: 1140-27010 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27010).
CONF #: 1140-27575 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1140-27575).
CONF #: 1140-28039 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28039).
CONF #: 1140-16379 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-16380 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-16386 Modified	This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC)	This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion
CONF #: 1140-16388 Modified	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem:	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem:

Change	Old	New
	ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-16393 Modified	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16397 Modified	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16399 Modified	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85)	SHALL contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.85:2014-12-01)

11.4 Care Goal (V2)

Care Goal (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.1:2014-12-01)

Change	Old	New
Name	Care Goal	Care Goal (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.1	urn:hl7ii:2.16.840.1.113883.10.20.24.3.1:2014-12-01
Description	<p>A goal is a defined target or measure to be achieved in the process of patient care. A typical goal is expressed as an observation scheduled for some time in the future with a particular value. A goal can be found in the plan of care (care plan). The plan of care (care plan) is the structure used by all stakeholders, including the patient, to define the management actions for the various conditions, problems, or issues identified for the target of the plan. It is the structure through which the goals and care planning actions and processes can be organized, planned, communicated, and checked for completion. A date/time stamp is required. ModeCode is constrained to "GOL" and actStatus is constrained to "active".</p>	<p>This template represents the QDM datatype: Care Goal.</p> <p>A goal is a defined target or measure to be achieved in the process of patient care. A typical goal is expressed as an observation scheduled for some time in the future with a particular value. A goal can be found in the plan of care (care plan). The plan of care (care plan) is the structure used by all stakeholders, including the patient, to define the management actions for the various conditions, problems, or issues identified for the target of the plan. It is the structure through which the goals and care planning actions and processes can be organized, planned, communicated, and checked for completion. A date/time stamp is required. ModeCode is constrained to "GOL" and actStatus is constrained to "active".</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.44)	Goal Observation (urn:oid:2.16.840.1.113883.10.20.22.4.121)
CONF #: 1140-27219 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27219).
CONF #: 1140-27220 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.

Change	Old	New
		24.3.84:2014-12-01) (CONF:1140-27220).
CONF #: 1140-27067 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27067).
CONF #: 1140-27557 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27557).
CONF #: 1140-27558 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27558).
CONF #: 1140-27576 Added		SHALL contain exactly one [1..1] code (CONF:1140-27576).
CONF #: 1140-27577 Added		This code SHALL contain exactly one [1..1] @sdtec: valueSet (CONF:1140-27577).
CONF #: 1140-28036 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-28036) such that it
CONF #: 1140-28037 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28037).
CONF #: 1140-28038 Added		SHALL contain exactly one [1..1] Target Outcome (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.119:2014-12-01) (CONF:1140-28038).
CONF #: 1140-28040 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28040).
CONF #: 67-11251 Removed	SHALL contain exactly one [1..1] code (CONF:67-11251).	
CONF #: 67-11252 Removed	This code SHALL contain exactly one [1..1] @code (CONF:67-11252).	
CONF #: 67-11253 Removed	This code SHALL contain exactly one [1..1] @codeSystem (CONF:67-11253).	
CONF #: 67-11254 Removed	SHALL contain exactly one [1..1] statusCode="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-11254).	
CONF #: 67-11429 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-11429).	
CONF #: 67-11430 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11430).	
CONF #: 1140-11245 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11246 Modified	SHALL contain exactly one [1..1] @moodCode="GOL" goal (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="GOL" goal (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11423 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11424 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11648 Modified	This observation SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	This observation SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11649 Modified	This observation SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	This observation SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13876 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.5 Communication from Patient to Provider (V2)

Communication from Patient to Provider (V2)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.2:2014-12-01)

Change	Old	New
Name	Communication from Patient to Provider	Communication from Patient to Provider (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.2	urn:hl7ii:2.16.840.1.113883.10.20.24.3.2:2014-12-01
Description	This template represents a communication initiated by the patient and received by the provider. A time/date stamp is required.	<p>This template represents the QDM datatype: Communication from Patient to Provider.</p> <p>Communication from Patient to Provider is communication initiated by the patient and received by the provider. A time/date stamp is required.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27273 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27273).
CONF #: 1140-27272 Added		This code SHALL contain exactly one [1..1] @code="158965000" Medical practitioner (CONF:1140-27272).
CONF #: 1140-27274 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27274).
CONF #: 1140-27275 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27275).
CONF #: 1140-27276 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27276).
CONF #: 1140-27277 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason

Change	Old	New
		(CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27277).
CONF #: 1140-27543 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27543).
CONF #: 1140-27544 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27544).
CONF #: 1140-27578 Added		This code SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27578).
CONF #: 1140-28041 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28041).
CONF #: 67-11639 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11639).	
CONF #: 67-11641 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11641).	
CONF #: 67-26944 Removed	This code SHALL contain exactly one [1..1] @code="158965000" Medical practitioner (CONF:67-26944).	
CONF #: 1140-11484 Modified	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11485 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11620 Modified	SHALL contain exactly one [1..1] statusCode="completed", which SHALL be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14) STATIC	SHALL contain exactly one [1..1] statusCode="completed", which SHALL be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-11632 Modified	SHALL contain exactly one [1..1] @typeCode="IRCP" information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="IRCP" information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12098 Modified	This participantRole SHALL contain exactly one [1..1]	This participantRole SHALL contain exactly one [1..1]

Change	Old	New
	@classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC)	@classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110)
CONF #: 1140-12099 Modified	SHALL contain exactly one [1..1] @typeCode="AUT" author (originator) (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="AUT" author (originator) (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12100 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="PAT" patient (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC)	This participantRole SHALL contain exactly one [1..1] @classCode="PAT" patient (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110)

11.6 Communication from Provider to Patient (V2)

Communication from Provider to Patient (V2)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.3:2014-12-01)

Change	Old	New
Name	Communication from Provider to Patient	Communication from Provider to Patient (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.3	urn:hl7ii:2.16.840.1.113883.10.20.24.3.3:2014-12-01
Description	This template represents the provision of any communication to the patient. (e.g., results, findings, plans for care, medical advice, instructions, educational resources, appointments, result).	<p>This template represents the QDM datatype: Communication from Provider to Patient. Communication from Provider to Patient is the provision of any communication to the patient (e.g., results, findings, plans for care, medical advice, instructions, educational resources, appointments, result).</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27278 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27278).
CONF #: 1140-27279 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27279).
CONF #: 1140-27280 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27280).
CONF #: 1140-27281 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27281).
CONF #: 1140-27282 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

Change	Old	New
		(CONF:1140-27282).
CONF #: 1140-27545 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27545).
CONF #: 1140-27546 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27546).
CONF #: 1140-27579 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27579).
CONF #: 1140-28042 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28042).
CONF #: 67-11849 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11849).	
CONF #: 67-11855 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11855).	
CONF #: 1140-11840 Modified	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11841 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11846 Modified	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-11851 Modified	SHALL contain exactly one [1..1] @typeCode="AUT" author (originator) (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="AUT" author (originator) (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-11857 Modified	SHALL contain exactly one [1..1] @typeCode="IRCP" information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="IRCP" information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12101 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass	This participantRole SHALL contain exactly one [1..1] @classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass

Change	Old	New
	urn:oid:2.16.840.1.113883.5.110 STATIC)	urn:oid:2.16.840.1.113883.5.110)
CONF #: 1140-12102 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="PAT" patient (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC)	This participantRole SHALL contain exactly one [1..1] @classCode="PAT" patient (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110)

11.7 Communication from Provider to Provider (V2)

Communication from Provider to Provider (V2)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.4:2014-12-01)

Change	Old	New
Name	Communication from Provider to Provider	Communication from Provider to Provider (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.4	urn:hl7ii:2.16.840.1.113883.10.20.24.3.4:2014-12-01
Description	This template represents the provision of any communication from one clinician to another regarding findings, assessments, plans of care, consultative advice, instructions, educational resources, etc.	<p>This template represents the QDM datatype: Communication from Provider to Provider.</p> <p>Communication from Provider to Provider is the provision of any communication from one clinician to another regarding findings, assessments, plans of care, consultative advice, instructions, educational resources, etc.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27283 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27283).
CONF #: 1140-27284 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27284).
CONF #: 1140-27285 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27285).
CONF #: 1140-27286 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27286).
CONF #: 1140-27287 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType

Change	Old	New
		urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27287).
CONF #: 1140-27547 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27547).
CONF #: 1140-27548 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27548).
CONF #: 1140-27581 Added		This code SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27581).
CONF #: 1140-28043 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28043).
CONF #: 67-11832 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11832).	
CONF #: 67-11834 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11834).	
CONF #: 1140-11816 Modified	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11817 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11822 Modified	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-11828 Modified	SHALL contain exactly one [1..1] @typeCode="IRCP" information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="IRCP" information recipient (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-11838 Modified	SHALL contain exactly one [1..1] @typeCode="AUT" author (originator) (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="AUT" author (originator) (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12096 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="ASSIGNED" assigned	This participantRole SHALL contain exactly one [1..1] @classCode="ASSIGNED" assigned

Change	Old	New
	entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC)	entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110)
CONF #: 1140-12097 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC)	This participantRole SHALL contain exactly one [1..1] @classCode="ASSIGNED" assigned entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110)

11.8 Device Adverse Event (V2)

Device Adverse Event (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.5:2014-12-01)

Change	Old	New
Name	Device Adverse Event	Device Adverse Event (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.5	urn:hl7ii:2.16.840.1.113883.10.20.24.3.5:2014-12-01
Description	A device adverse event is an unexpected or dangerous reaction to a device. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolong hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter. A time/date stamp is required as are notations indicating whether item is patient reported and/or provider verified.	<p>This template represents the QDM datatype: Device, Adverse Event.</p> <p>This datatype indicates an unexpected or dangerous reaction to a device. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolong hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter. A time/date stamp is required as are notations indicating whether item is patient reported and/or provider verified.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Substance or Device Allergy - Intolerance Observation (urn:oid:2.16.840.1.113883.10.20.24.3.90)	Substance or Device Allergy - Intolerance Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09)
CONF #: 1140-27237 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27237).
CONF #: 1140-27238 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27238).

Change	Old	New
CONF #: 1140-27123 Added		SHALL contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27123).
CONF #: 1140-27029 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27029).
CONF #: 1140-27582 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27582).
CONF #: 1140-28044 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28044).
CONF #: 1140-28045 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28045).
CONF #: 1140-28046 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28046).
CONF #: 67-12104 Removed	SHALL contain exactly one [1..1] @classCode="OBS" observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:67-12104).	
CONF #: 67-12105 Removed	SHALL contain exactly one [1..1] @moodCode="EVN" event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:67-12105).	
CONF #: 67-12108 Removed	SHALL contain exactly one [1..1] code="ASSERTION" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-12108).	
CONF #: 67-12109 Removed	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-12109).	
CONF #: 67-12110 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-12110).	
CONF #: 67-12124 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.85) (CONF:67-12124).	
CONF #: 67-12126 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12126).	
CONF #: 67-12128 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-12128).	
CONF #: 1140-12113 Modified	SHALL contain exactly one [1..1] @typeCode="PRD" product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="PRD" product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12115 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC)	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110)
CONF #: 1140-12122 Modified	SHALL contain exactly one [1..1] @typeCode="MFST" is manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="MFST" is manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12125 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12127 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12189 Modified	This value SHALL contain exactly one [1..1] @code="281647001" adverse reaction, which SHALL be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96) STATIC	This value SHALL contain exactly one [1..1] @code="281647001" adverse reaction, which SHALL be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96)

11.9 Device Allergy (V2)

Device Allergy (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.6:2014-12-01)

Change	Old	New
Name	Device Allergy	Device Allergy (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.6	urn:hl7ii:2.16.840.1.113883.10.20.24.3.6:2014-12-01
Description	A device allergy is an immunologically mediated reaction that exhibits specificity and recurrence on re-exposure to the offending device (e.g., implanted device). A time/date stamp is required as are notations indicating whether the item is patient reported and/or provider verified.	<p>This template represents the QDM datatype: Device, Allergy.</p> <p>This datatype represents an immunologically mediated reaction that exhibits specificity and recurrence on re-exposure to the offending device (e.g., implanted device). A time/date stamp is required as are notations indicating whether the item is patient reported and/or provider verified.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Substance or Device Allergy - Intolerance Observation (urn:oid:2.16.840.1.113883.10.20.24.3.90)	Substance or Device Allergy - Intolerance Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09)
CONF #: 1140-27229 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27229).
CONF #: 1140-27230 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27230).
CONF #: 1140-27127 Added		SHALL contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-

Change	Old	New
		27127).
CONF #: 1140-27033 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27033).
CONF #: 1140-27583 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27583).
CONF #: 1140-28047 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28047).
CONF #: 1140-28048 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28048).
CONF #: 1140-28049 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28049).
CONF #: 67-12132 Removed	SHALL contain exactly one [1..1] @classCode="OBS" observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:67-12132).	
CONF #: 67-12133 Removed	SHALL contain exactly one [1..1] @moodCode="EVN" event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:67-12133).	
CONF #: 67-12137 Removed	SHALL contain exactly one [1..1] code="ASSERTION" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-12137).	
CONF #: 67-12138 Removed	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-12138).	
CONF #: 67-12139 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-12139).	
CONF #: 67-12151 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85) (CONF:67-12151).	
CONF #: 67-12154 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12154).	
CONF #: 67-12157 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-12157).	
CONF #: 1140-12142 Modified	SHALL contain exactly one [1..1] @typeCode="PRD" product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="PRD" product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12144 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC)	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110)
CONF #: 1140-12146 Modified	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12149 Modified	SHALL contain exactly one [1..1] @typeCode="MFST" is manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="MFST" is manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12153 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12156 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12188 Modified	This value SHALL contain exactly one [1..1] @code="106190000" allergy, which SHALL be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96) STATIC	This value SHALL contain exactly one [1..1] @code="106190000" allergy, which SHALL be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96)

11.10 Device Applied (V2)

Device Applied (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.7:2014-12-01)

Change	Old	New
Name	Device Applied	Device Applied (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.7	urn:hl7ii:2.16.840.1.113883.10.20.24.3.7:2014-12-01
Description	This template indicates that equipment designed to treat, monitor, or diagnose a patient's status is in use (e.g., an antithrombotic device has been placed on the patient's legs to prevent thromboembolism, or a cardiac pacemaker is in place). MoodCode has been constrained to "EVN", statusCode has been constrained to "completed" and there is a participant to represent the device.	<p>This template represents the QDM datatype: Device, Applied.</p> <p>This datatype indicates that equipment designed to treat, monitor, or diagnose a patient's status is in use (e.g., an antithrombotic device has been placed on the patient's legs to prevent thromboembolism, or a cardiac pacemaker is in place). The statusCode has been constrained to "completed" and there is a participant to represent the device.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Procedure Activity Procedure (urn:oid:2.16.840.1.113883.10.20.22.4.14)	Procedure Activity Procedure (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09)
CONF #: 1140-27176 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27176).
CONF #: 1140-27131 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27131).
CONF #: 1140-27177 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27177).
CONF #: 1140-27132 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27132).
CONF #: 1140-27376 Added		MAY contain zero or one [0..1]

Change	Old	New
		approachSiteCode (CONF:1140-27376).
CONF #: 1140-27535 Added		The targetSiteCode, if present, MAY contain zero or more [0..*] translation (CONF:1140-27535).
CONF #: 1140-27536 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-27536).
CONF #: 1140-27537 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27537).
CONF #: 1140-27538 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27538).
CONF #: 1140-27584 Added		This code SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27584).
CONF #: 1140-27730 Added		The targetSiteCode, if present, SHOULD contain zero or one [0..1] @sdtc:valueSet (CONF:1140-27730).
CONF #: 1140-27731 Added		The translation, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27731).
CONF #: 1140-28050 Added		SHALL contain exactly one [1..1] @classCode="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28050).
CONF #: 1140-28051 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28051).
CONF #: 1140-28052 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28052).
CONF #: 67-12390 Removed	SHALL contain exactly one [1..1] @moodCode="EVN" event, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) STATIC (CONF:67-12390).	
CONF #: 67-12405 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88) (CONF:67-12405).	

Change	Old	New
CONF #: 67-12408 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12408).	
CONF #: 67-12411 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12411).	
CONF #: 1140-12394 Modified	SHALL contain exactly one [1..1] statusCode="completed", which SHALL be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14) STATIC	SHALL contain exactly one [1..1] statusCode="completed", which SHALL be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-12397 Modified	SHALL contain exactly one [1..1] @typeCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	SHALL contain exactly one [1..1] @typeCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12399 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product, which SHALL be selected from CodeSystem RoleClass (urn:oid:2.16.840.1.113883.5.110) STATIC	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product, which SHALL be selected from CodeSystem RoleClass (urn:oid:2.16.840.1.113883.5.110)
CONF #: 1140-12401 Modified	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12404 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12407 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12410 Modified	SHALL contain exactly one [1..1] @nullFlavor="RSON" has reason, which SHALL be selected from CodeSystem	SHALL contain exactly one [1..1] @nullFlavor="RSON" has reason, which SHALL be selected from CodeSystem

Change	Old	New
	HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) STATIC	HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002))
CONF #: 1140-12415 Modified	This code SHALL contain exactly one [1..1] @code="360030002" application of device, which SHALL be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96) STATIC	This code SHALL contain exactly one [1..1] @code="360030002" application of device
CONF #: 1140-12416 Modified	MAY contain zero or one [0..1] targetSiteCode	If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code. SHOULD contain zero or one [0..1] targetSiteCode

11.11 Device Intolerance (V2)

Device Intolerance (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.8:2014-12-01)

Change	Old	New
Name	Device Intolerance	Device Intolerance (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.8	urn:hl7ii:2.16.840.1.113883.10.20.24.3.8:2014-12-01
Description	<p>Device intolerance is a reaction in specific patients representing a low threshold to the normal actions of a device. Intolerance is generally based on patient report and perception of his or her ability to tolerate a device that was properly applied. A time/date stamp is required as are notations indicating whether the item is patient reported and/or provider verified.</p>	<p>This template represents the QDM datatype: Device, Intolerance.</p> <p>This datatype represents a reaction in specific patients representing a low threshold to the normal actions of a device. Intolerance is generally based on patient report and perception of his or her ability to tolerate a device that was properly applied. A time/date stamp is required as are notations indicating whether the item is patient reported and/or provider verified.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Substance or Device Allergy - Intolerance Observation (urn:oid:2.16.840.1.113883.10.20.24.3.90)	Substance or Device Allergy - Intolerance Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.90:2014-06-09)
CONF #: 1140-27227 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27227).
CONF #: 1140-27228 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27228).
CONF #: 1140-27126 Added		SHALL contain exactly one [1..1] Reaction (V2) (identifier:

Change	Old	New
		urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27126).
CONF #: 1140-27034 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27034).
CONF #: 1140-27585 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27585).
CONF #: 1140-28053 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28053).
CONF #: 1140-28054 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28054).
CONF #: 1140-28055 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28055).
CONF #: 67-12160 Removed	SHALL contain exactly one [1..1] @classCode="OBS" observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:67-12160).	
CONF #: 67-12161 Removed	SHALL contain exactly one [1..1] @moodCode="EVN" event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:67-12161).	
CONF #: 67-12165 Removed	SHALL contain exactly one [1..1] code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-12165).	
CONF #: 67-12166 Removed	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-12166).	
CONF #: 67-12167 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-12167).	
CONF #: 67-12183 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12183).	
CONF #: 67-12186 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2	

Change	Old	New
	4.3.84) (CONF:67-12186).	
CONF #: 67-16350 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85) (CONF:67-16350).	
CONF #: 1140-12171 Modified	SHALL contain exactly one [1..1] @typeCode="PRD" product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="PRD" product (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12173 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC)	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110)
CONF #: 1140-12175 Modified	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12182 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12185 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16349 Modified	SHALL contain exactly one [1..1] typeId="MFST" Is manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] typeId="MFST" Is manifestation of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.12 Device Order (V2)

Device Order (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.9:2014-12-01)

Change	Old	New
Name	Device Order	Device Order (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.9	urn:hl7ii:2.16.840.1.113883.10.20.24.3.9:2014-12-01
Description	This template represents an order for equipment designed to treat, monitor, or diagnose a patient's condition. A date/time stamp is required. MoodCode is constrained to "RQO" and actStatus is constrained to "new".	<p>This template represents the QDM datatype: Device, Order.</p> <p>This datatype represents an order for equipment designed to treat, monitor, or diagnose a patient's condition.</p> <p>The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.</p>
Implied Template	Plan of Care Activity Supply (urn:oid:2.16.840.1.113883.10.20.22.4.43)	Planned Supply (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09)
CONF #: 1140-27195 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27195).
CONF #: 1140-27196 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27196).
CONF #: 1140-27091 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27091).
CONF #: 1140-27586 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27586).
CONF #: 1140-27721 Added		author/time/low represents the time the order is placed and author/time/high represents the time the order placement is

Change	Old	New
		completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.119) (CONF:1140-27721).
CONF #: 1140-27723 Added		SHALL contain exactly one [1..1] @classCode="SPLY" Supply (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27723).
CONF #: 67-12348 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-12348).	
CONF #: 67-12362 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12362).	
CONF #: 67-12364 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12364).	
CONF #: 67-13035 Removed	SHALL contain exactly one [1..1] statusCode="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13035).	
CONF #: 1140-12343 Modified	SHALL contain exactly one [1..1] @moodCode="RQO" request, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) STATIC	SHALL contain exactly one [1..1] @moodCode="RQO" Request, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12350 Modified	SHALL contain exactly one [1..1] @typeCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	SHALL contain exactly one [1..1] @typeCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12352 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product, which SHALL be selected from CodeSystem RoleClass (urn:oid:2.16.840.1.113883.5.110) STATIC	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product, which SHALL be selected from CodeSystem RoleClass (urn:oid:2.16.840.1.113883.5.110)
CONF #: 1140-12354 Modified	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)

Change	Old	New
CONF #: 1140-12359 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12360 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.88:2014-12-01)
CONF #: 1140-12361 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12363 Modified	SHALL contain exactly one [1..1] @nullFlavor="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) STATIC	SHALL contain exactly one [1..1] @nullFlavor="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002)

11.13 Device Recommended (V2)

Device Recommended (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.10:2014-12-01)

Change	Old	New
Name	Device Recommended	Device Recommended (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.10	urn:hl7ii:2.16.840.1.113883.10.20.24.3.10:2014-12-01
Description	This template represents an recommendation for equipment designed to treat, monitor, or diagnose a patient's condition. A date/time stamp is required. MoodCode is constrained to "INT" and actStatus is constrained to "new".	<p>This template represents the QDM datatype: Device, Recommended.</p> <p>This datatype represents a recommendation for equipment designed to treat, monitor, or diagnose a patient's condition.</p> <p>The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.</p>
Implied Template	Plan of Care Activity Supply (urn:oid:2.16.840.1.113883.10.20.22.4.43)	Planned Supply (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09)
CONF #: 1140-27193 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27193).
CONF #: 1140-27093 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27093).
CONF #: 1140-27194 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27194).
CONF #: 1140-27094 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27094).
CONF #: 1140-27587 Added		This code SHALL contain exactly

Change	Old	New
		one [1..1] @sdtc:valueSet (CONF:1140-27587).
CONF #: 1140-27719 Added		author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.119) (CONF:1140-27719).
CONF #: 1140-27722 Added		SHALL contain exactly one [1..1] @classCode="SPLY" Supply (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27722).
CONF #: 67-12373 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-12373).	
CONF #: 67-12383 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-12383).	
CONF #: 67-12386 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12386).	
CONF #: 67-12389 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12389).	
CONF #: 67-13036 Removed	SHALL contain exactly one [1..1] statusCode="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13036).	
CONF #: 1140-12368 Modified	SHALL contain exactly one [1..1] @moodCode="INT" intent, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) STATIC	SHALL contain exactly one [1..1] @moodCode="INT" Intent, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12375 Modified	SHALL contain exactly one [1..1] @typeCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	SHALL contain exactly one [1..1] @typeCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12377 Modified	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product, which SHALL be selected	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" manufactured product, which SHALL be selected

Change	Old	New
	from CodeSystem RoleClass (urn:oid:2.16.840.1.113883.5.110) STATIC	from CodeSystem RoleClass (urn:oid:2.16.840.1.113883.5.110)
CONF #: 1140-12379 Modified	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	This playingDevice SHALL contain exactly one [1..1] @classCode="DEV" device, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12382 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002)) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002))
CONF #: 1140-12385 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002)) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002))
CONF #: 1140-12388 Modified	SHALL contain exactly one [1..1] @nullFlavor="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002)) STATIC	SHALL contain exactly one [1..1] @nullFlavor="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002))

11.14Diagnosis Active (V2)

Diagnosis Active (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.11:2014-12-01)

Change	Old	New
Name	Diagnosis Active	Diagnosis Active (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.11	urn:hl7ii:2.16.840.1.113883.10.20.24.3.11:2014-12-01
Description	<p>An active diagnosis is a problem, diagnosis or condition that is currently monitored, tracked or is a factor that must be considered as part of the treatment plan in progress. A time/date stamp is required. The Observation/Code is constrained to "Diagnosis" "282291009"</p> <p>2.16.840.1.113883.6.96 (SNOMED-CT) and it contains Problem Status Active (templateId:2.16.840.1.113883.10.20.24.3.94).</p>	<p>This template, along with its containing template Diagnosis Active Concern Act, represents the QDM datatype: Diagnosis, Active.</p> <p>An active diagnosis is a problem, diagnosis or condition that is currently monitored or tracked or is a factor that must be considered as part of the treatment plan in progress. The Observation/Code is constrained to "Diagnosis" and an effectiveTime/low is required.</p> <p>QDM Attribute: Start Datetime is the time the active diagnosis is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Diagnosis Active Concern Act template. QDM Attribute: Stop Datetime is the time the diagnosis is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Diagnosis Active Concern Act template. The observation/effectiveTime/low represents the onset date.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Problem Observation (urn:oid:2.16.840.1.113883.10.20.22.4.4)	Problem Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)
CONF #: 1140-27191 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-

Change	Old	New
		27191).
CONF #: 1140-27192 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27192).
CONF #: 1140-27096 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27096).
CONF #: 1140-27116 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27116).
CONF #: 1140-27395 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27395).
CONF #: 1140-27588 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27588).
CONF #: 1140-27590 Added		If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code. MAY contain zero or one [0..1] targetSiteCode (CONF:1140-27590).
CONF #: 1140-27591 Added		The targetSiteCode, if present, MAY contain zero or more [0..*] translation (CONF:1140-27591).
CONF #: 1140-28056 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28056).
CONF #: 1140-28233 Added		This template SHALL be contained by a Diagnosis Active Concern Act (CONF:1140-28233).
CONF #: 67-11975 Removed	SHALL contain exactly one [1..1] entryRelationship (CONF:67-11975) such that it	
CONF #: 67-11979 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11979).	

Change	Old	New
CONF #: 67-11985 Removed	This effectiveTime SHALL contain exactly one [1..1] high (CONF:67-11985).	
CONF #: 67-11988 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-11988).	
CONF #: 67-11991 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-11991).	
CONF #: 67-12253 Removed	SHALL contain exactly one [1..1] Problem Status Active (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.94) (CONF:67-12253).	
CONF #: 1140-11987 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11990 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11993 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11994 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
CONF #: 1140-11995 Modified	This code SHALL contain exactly one [1..1] @code="282291009 " diagnosis (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="29308-4" diagnosis
CONF #: 1140-11997 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11998 Modified	SHALL contain exactly one [1..1] Severity Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.8)	SHALL contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09)
CONF #: 1140-12012 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem:	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem:

Change	Old	New
	HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	HL7ActClass urn:oid:2.16.840.1.113883.5.6)

11.15Diagnosis Family History (V2)

Diagnosis Family History (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.12:2014-12-01)

Change	Old	New
Name	Diagnosis Family History	Diagnosis Family History (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.12	urn:hl7ii:2.16.840.1.113883.10.20.24.3.12:2014-12-01
Description	This template represents problems, conditions, and diagnoses experienced by a patient's family members whether existing currently or in the past. A time/date stamp is required.	This template (along with its contained template Diagnosis Family History Observation) represents the QDM datatype: Diagnosis, Family History. This template is an organizer that contains the Diagnosis Family History Observation template and represents problems, conditions, and diagnoses experienced by a patient's family members, whether existing currently or in the past. This organizer groups the Diagnosis Family History Observation by family member as expressed in the subject.
Implied Template	Family History Organizer (urn:oid:2.16.840.1.113883.10.20.22.4.45)	Family History Organizer (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.45:2014-06-09)
CONF #: 1140-27716 Added		SHALL contain exactly one [1..1] Diagnosis Family History Observation (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.12:2014-12-01) (CONF:1140-27716).
CONF #: 1140-27715 Added		SHALL contain at least one [1..*] component (CONF:1140-27715) such that it
CONF #: 1140-26553 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-26553).
CONF #: 67-14178 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-14178).	

11.16Diagnosis Inactive (V2)

Diagnosis Inactive (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.13:2014-12-01)

Change	Old	New
Name	Diagnosis Inactive	Diagnosis Inactive (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.13	urn:hl7ii:2.16.840.1.113883.10.20.24.3.13:2014-12-01
Description	<p>An inactive diagnosis is a diagnosis that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future (e.g., a cancer diagnosis in remission). A date/time stamp is required. The Observation/Code is constrained to "Diagnosis" "282291009"</p> <p>2.16.840.1.113883.6.96 (SNOMED-CT) and it contains Problem Status Inactive (templateId:2.16.840.1.113883.10.20.24.3.95.</p>	<p>This template, along with its containing template Diagnosis Inactive Concern Act, represents the QDM datatype: Diagnosis, Inactive.</p> <p>An inactive diagnosis is a diagnosis that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future (e.g., a cancer diagnosis in remission). The Observation/Code is constrained to "Diagnosis" and both effectiveTime/low and effectiveTime/high are required.</p> <p>QDM Attribute: Start Datetime is the time the active diagnosis is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Diagnosis Inactive Concern Act template. QDM Attribute: Stop Datetime is the time the diagnosis is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Diagnosis Inactive Concern Act template. The observation/effectiveTime represents the period of time from onset date (low) until the inactive or resolved date (high).</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Problem Observation	Problem Observation (V2)

Change	Old	New
	(urn:oid:2.16.840.1.113883.10.20.22.4.4)	(urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)
CONF #: 1140-27189 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27189).
CONF #: 1140-27190 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27190).
CONF #: 1140-27099 Added		SHALL contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27099).
CONF #: 1140-27100 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27100).
CONF #: 1140-27403 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27403).
CONF #: 1140-27611 Added		SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27611).
CONF #: 1140-27612 Added		This value SHALL contain exactly one [1..1] @sdte:valueSet (CONF:1140-27612).
CONF #: 1140-28058 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28058).
CONF #: 1140-28133 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28133).
CONF #: 1140-28234 Added		This template SHALL be contained by a Diagnosis Inactive Concern Act (CONF:1140-28234).
CONF #: 1140-28377 Added		If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use

Change	Old	New
		translation for the code. MAY contain zero or more [0..*] targetSiteCode (CONF:1140-28377).
CONF #: 1140-28378 Added		The targetSiteCode, if present, MAY contain zero or more [0..*] translation (CONF:1140-28378).
CONF #: 67-12019 Removed	SHALL contain exactly one [1..1] entryRelationship (CONF:67-12019) such that it	
CONF #: 67-12023 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12023).	
CONF #: 67-12033 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12033).	
CONF #: 67-12036 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12036).	
CONF #: 67-12037 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-12037) such that it	
CONF #: 67-12038 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12038).	
CONF #: 67-12039 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-12039).	
CONF #: 67-12042 Removed	SHALL contain exactly one [1..1] Severity Observation (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.8) (CONF:67-12042).	
CONF #: 67-12043 Removed	SHALL contain exactly one [1..1] value (CONF:67-12043).	
CONF #: 67-12219 Removed	SHALL contain exactly one [1..1] Problem Status Inactive (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.95) (CONF:67-12219).	
CONF #: 1140-12025 Modified	This code SHALL contain exactly one [1..1] @code="282291009" diagnosis (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="29308-4" diagnosis

Change	Old	New
CONF #: 1140-12032 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12035 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12041 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12047 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)

11.17Diagnosis Resolved (V2)

Diagnosis Resolved (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.14:2014-12-01)

Change	Old	New
Name	Diagnosis Resolved	Diagnosis Resolved (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.14	urn:hl7ii:2.16.840.1.113883.10.20.24.3.14:2014-12-01
Description	<p>A resolved diagnosis is a diagnosis that no longer requires treatment and, by its nature is unlikely to recur. A date/time stamp is required. The Observation/Code is constrained to "Diagnosis" "282291009"</p> <p>2.16.840.1.113883.6.96 (SNOMED-CT) and it contains Problem Status Resolved (templateId:2.16.840.1.113883.10.20.24.3.96).</p>	<p>This template, along with its containing template Diagnosis Resolved Concern Act, represents the QDM datatype: Diagnosis, Resolved.</p> <p>A resolved diagnosis is a diagnosis that no longer requires treatment and, by its nature is unlikely to recur. The Observation/Code is constrained to Diagnosis and effectiveTime/low and and effectiveTime/high are required.</p> <p>QDM Attribute: Start Datetime is the time the active diagnosis is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Diagnosis Resolved Concern Act template. QDM Attribute: Stop Datetime is the time the diagnosis is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Diagnosis Resolved Concern Act template. The observation/effectiveTime represents the period of time from onset date (low) until the inactive or resolved date (high).</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Problem Observation (urn:oid:2.16.840.1.113883.10.20.22.4.4)	Problem Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)
CONF #: 1140-27187 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier:

Change	Old	New
		urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27187).
CONF #: 1140-27188 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27188).
CONF #: 1140-27102 Added		SHALL contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27102).
CONF #: 1140-27103 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27103).
CONF #: 1140-27399 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27399).
CONF #: 1140-27613 Added		SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27613).
CONF #: 1140-27614 Added		This value SHALL contain exactly one [1..1] @sdte:valueSet (CONF:1140-27614).
CONF #: 1140-28059 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28059).
CONF #: 1140-28134 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28134).
CONF #: 1140-28235 Added		This template SHALL be contained by a Diagnosis Resolved Concern Act (CONF:1140-28235).
CONF #: 1140-28375 Added		If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code. MAY contain zero or more [0..*] targetSiteCode (CONF:1140-28375).

Change	Old	New
CONF #: 1140-28376 Added		The targetSiteCode, if present, MAY contain zero or more [0..*] translation (CONF:1140-28376).
CONF #: 67-12054 Removed	SHALL contain exactly one [1..1] entryRelationship (CONF:67-12054) such that it	
CONF #: 67-12058 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12058).	
CONF #: 67-12066 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12066).	
CONF #: 67-12069 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12069).	
CONF #: 67-12070 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-12070) such that it	
CONF #: 67-12071 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12071).	
CONF #: 67-12072 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-12072).	
CONF #: 67-12075 Removed	SHALL contain exactly one [1..1] Severity Observation (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.8) (CONF:67-12075).	
CONF #: 67-12076 Removed	SHALL contain exactly one [1..1] value (CONF:67-12076).	
CONF #: 67-12313 Removed	SHALL contain exactly one [1..1] Problem Status Resolved (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.96) (CONF:67-12313).	
CONF #: 1140-12060 Modified	This code SHALL contain exactly one [1..1] @code="282291009 " diagnosis (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="29308-4" diagnosis
CONF #: 1140-12065 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

Change	Old	New
	STATIC)	
CONF #: 1140-12068 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12074 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12077 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)

11.18Diagnostic Study Adverse Event (V2)

Diagnostic Study Adverse Event (V2)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.15:2014-12-01)

Change	Old	New
Name	Diagnostic Study Adverse Event	Diagnostic Study Adverse Event (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.15	urn:hl7ii:2.16.840.1.113883.10.20.24.3.15:2014-12-01
Description	<p>This clinical statement represents an adverse event caused by a diagnostic study. An adverse event is an unexpected or dangerous reaction to a device, diagnostic study, intervention, laboratory test, procedure, or substance. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolonging hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter. A diagnostic study is any kind of medical test performed such as a specific test or series of steps to aid in diagnosing or detecting disease (e.g., to establish a diagnosis, measure the progress or recovery from disease, to confirm that a person is free from disease).</p>	<p>This template represents the QDM datatype: Diagnostic Study, Adverse Event.</p> <p>This datatype represents an adverse event caused by a diagnostic study. An adverse event is an unexpected or dangerous reaction to a device, diagnostic study, intervention, laboratory test, procedure, or substance. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolonging hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter. A diagnostic study is any kind of medical test performed such as a specific test or series of steps to aid in diagnosing or detecting disease (e.g., to establish a diagnosis, measure the progress or recovery from disease, to confirm that a person is free from disease).</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	<p>Act Intolerance or Adverse Event Observation</p> <p>(urn:oid:2.16.840.1.113883.10.20.</p>	<p>Act Intolerance or Adverse Event Observation (V2)</p> <p>(urn:hl7ii:2.16.840.1.113883.10.20</p>

Change	Old	New
	24.3.104)	.24.3.104:2014-12-01)
CONF #: 1140-27149 Added		SHALL contain exactly one [1..1] Diagnostic Study Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01) (CONF:1140-27149).
CONF #: 1140-27251 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27251).
CONF #: 1140-27252 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27252).
CONF #: 1140-27012 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27012).
CONF #: 1140-27413 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-27413) such that it
CONF #: 1140-27414 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27414).
CONF #: 1140-27415 Added		SHALL contain exactly one [1..1] Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27415).
CONF #: 1140-28060 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28060).
CONF #: 67-11771 Removed	SHALL contain exactly one [1..1] id (CONF:67-11771).	
CONF #: 67-11772 Removed	SHALL contain exactly one [1..1] code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-11772).	
CONF #: 67-11774 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-11774).	
CONF #: 67-11775 Removed	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14	

Change	Old	New
	STATIC) (CONF:67-11775).	
CONF #: 67-11776 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-11776).	
CONF #: 67-11777 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67-11777).	
CONF #: 67-11778 Removed	This effectiveTime SHOULD contain zero or one [0..1] high (CONF:67-11778).	
CONF #: 67-11783 Removed	SHOULD contain zero or one [0..1] entryRelationship (CONF:67-11783) such that it	
CONF #: 67-11784 Removed	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11784).	
CONF #: 67-11785 Removed	SHALL contain exactly one [1..1] @inversionInd="true" (CONF:67-11785).	
CONF #: 67-11786 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85) (CONF:67-11786).	
CONF #: 67-11789 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11789).	
CONF #: 67-11792 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11792).	
CONF #: 67-13836 Removed	SHALL contain exactly one [1..1] Diagnostic Study Performed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.18) (CONF:67-13836).	
CONF #: 1140-11767 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11768 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11780 Modified	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType

Change	Old	New
	urn:oid:2.16.840.1.113883.5.1002 STATIC)	urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11788 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11791 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.19Diagnostic Study Intolerance (V2)

Diagnostic Study Intolerance (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.16:2014-12-01)

Change	Old	New
Name	Diagnostic Study Intolerance	Diagnostic Study Intolerance (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.16	urn:hl7ii:2.16.840.1.113883.10.20.24.3.16:2014-12-01
Description	This clinical statement template represents an intolerance to a diagnostic study perceived and reported by the patient.	<p>This template represents the QDM datatype: Diagnostic Study, Intolerance.</p> <p>This datatype represents an intolerance to a diagnostic study perceived and reported by the patient.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Act Intolerance or Adverse Event Observation (urn:oid:2.16.840.1.113883.10.20.24.3.104)	Act Intolerance or Adverse Event Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01)
CONF #: 1140-27150 Added		SHALL contain exactly one [1..1] Diagnostic Study Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01) (CONF:1140-27150).
CONF #: 1140-27249 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27249).
CONF #: 1140-27250 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27250).
CONF #: 1140-27015 Added		SHALL contain exactly one [1..1]

Change	Old	New
		@extension="2014-12-01" (CONF:1140-27015).
CONF #: 1140-27410 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-27410) such that it
CONF #: 1140-27411 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27411).
CONF #: 1140-27412 Added		SHALL contain exactly one [1..1] Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27412).
CONF #: 1140-28061 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28061).
CONF #: 67-11738 Removed	SHALL contain exactly one [1..1] code (CONF:67-11738).	
CONF #: 67-11739 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-11739).	
CONF #: 67-11740 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-11740).	
CONF #: 67-11741 Removed	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-11741).	
CONF #: 67-11742 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-11742).	
CONF #: 67-11743 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67-11743).	
CONF #: 67-11744 Removed	This effectiveTime SHOULD contain zero or one [0..1] high (CONF:67-11744).	
CONF #: 67-11755 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-11755).	
CONF #: 67-11758 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-11758).	

Change	Old	New
CONF #: 67-13879 Removed	SHALL contain exactly one [1..1] Diagnostic Study Performed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.18) (CONF:67-13879).	
CONF #: 1140-11733 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11734 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11746 Modified	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-11750 Modified	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-11752 Modified	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85)	SHALL contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.85:2014-12-01)
CONF #: 1140-11754 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-11757 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-16411 Modified	This value SHALL contain exactly one [1..1] @code="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This value SHALL contain exactly one [1..1] @code="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96)

11.20Diagnostic Study Order (V2)

Diagnostic Study Order (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.17:2014-12-01)

Change	Old	New
Name	Diagnostic Study Order	Diagnostic Study Order (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.17	urn:hl7ii:2.16.840.1.113883.10.20.24.3.17:2014-12-01
Description	<p>This template represents that a diagnostic study has been ordered. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others. A time/date stamp is required. MoodCode is constrained to "RQO" and actStatus is constrained to "new". Author is required to represent the ordering clinician.</p>	<p>This template represents the QDM datatype: Diagnostic Study, Order.</p> <p>This datatype represents that a diagnostic study has been ordered. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.</p> <p>The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.44)	Planned Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)
CONF #: 1140-27217 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27217).

Change	Old	New
CONF #: 1140-27340 Added		author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27340).
CONF #: 1140-27218 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27218).
CONF #: 1140-27069 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27069).
CONF #: 1140-27408 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27408).
CONF #: 1140-27615 Added		SHALL contain exactly one [1..1] code (CONF:1140-27615).
CONF #: 1140-27616 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27616).
CONF #: 1140-28062 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28062).
CONF #: 67-13415 Removed	SHALL contain exactly one [1..1] code (CONF:67-13415).	
CONF #: 67-13416 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-13416).	
CONF #: 67-13417 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13417).	
CONF #: 67-13418 Removed	MAY contain zero or more [0..*] methodCode (CONF:67-13418).	
CONF #: 67-13419 Removed	SHALL contain exactly one [1..1] author (CONF:67-13419) such that it	
CONF #: 67-13420 Removed	SHALL contain exactly one [1..1] time (CONF:67-13420).	
CONF #: 67-13423 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-13423).	

Change	Old	New
CONF #: 67-13426 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-13426).	
CONF #: 1140-13411 Modified	SHALL contain exactly one [1..1] @moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13422 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13425 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13428 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13429 Modified	SHALL contain exactly one [1..1] Radiation Dosage and Duration (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.91)	SHALL contain exactly one [1..1] Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.91:2014-12-01)
CONF #: 1140-13431 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13432 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.88:2014-12-01)

11.21 Diagnostic Study Performed (V2)

Diagnostic Study Performed (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01)

Change	Old	New
Name	Diagnostic Study Performed	Diagnostic Study Performed (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.18	urn:hl7ii:2.16.840.1.113883.10.20.24.3.18:2014-12-01
Description	This template indicates that a diagnostic study has been completed. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others. A time/date stamp is required, moodCode is constrained to "EVN" and statusCode is constrained to "completed".	<p>This template represents the QDM datatype: Diagnostic Study, Performed.</p> <p>This template indicates that a diagnostic study has been completed. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others. A time/date stamp is required, moodCode is constrained to "EVN" and statusCode is constrained to "completed".</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Procedure Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.13)	Procedure Activity Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.13:2014-06-09)
CONF #: 1140-27170 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27170).
CONF #: 1140-27140 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27140).
CONF #: 1140-27171 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27171).

Change	Old	New
CONF #: 1140-27322 Added		SHALL contain exactly one [1..1] Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27322).
CONF #: 1140-27141 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27141).
CONF #: 1140-27368 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-27368) such that it
CONF #: 1140-27369 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27369).
CONF #: 1140-27370 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27370).
CONF #: 1140-27371 Added		SHALL contain exactly one [1..1] Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:1140-27371).
CONF #: 1140-27617 Added		SHALL contain exactly one [1..1] code (CONF:1140-27617).
CONF #: 1140-27618 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27618).
CONF #: 1140-27746 Added		MAY contain zero or more [0..*] entryRelationship (CONF:1140-27746) such that it
CONF #: 1140-27747 Added		SHALL contain exactly one [1..1] Result (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01) (CONF:1140-27747).
CONF #: 1140-28063 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28063).
CONF #: 1140-28139 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28139).
CONF #: 67-12965 Removed	SHALL contain exactly one [1..1] Reason (identifier:	

Change	Old	New
	urn:oid:2.16.840.1.113883.10.20.24.3.88) (CONF:67-12965).	
CONF #: 67-12968 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12968).	
CONF #: 67-12971 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-12971).	
CONF #: 67-13391 Removed	SHALL contain exactly one [1..1] Radiation Dosage and Duration (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.91) (CONF:67-13391).	
CONF #: 1140-12950 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12957 Modified	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-12964 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12967 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12970 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13390 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.22Diagnostic Study Recommended (V2)

Diagnostic Study Recommended (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.19:2014-12-01)

Change	Old	New
Name	Diagnostic Study Recommended	Diagnostic Study Recommended (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.19	urn:hl7ii:2.16.840.1.113883.10.20.24.3.19:2014-12-01
Description	Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others. A time/date stamp is required. MoodCode is constrained to "INT" and actStatus is constrained to "new". Author is required to represent the recommending clinician.	<p>This template represents the QDM datatype: Diagnostic Study, Recommended.</p> <p>Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others.</p> <p>The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.44)	Planned Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)
CONF #: 1140-27215 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-

Change	Old	New
		27215).
CONF #: 1140-27216 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27216).
CONF #: 1140-27320 Added		SHALL contain exactly one [1..1] Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27320).
CONF #: 1140-27070 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27070).
CONF #: 1140-27406 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27406).
CONF #: 1140-27619 Added		SHALL contain exactly one [1..1] code (CONF:1140-27619).
CONF #: 1140-27620 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27620).
CONF #: 1140-28064 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28064).
CONF #: 67-13396 Removed	SHALL contain exactly one [1..1] code (CONF:67-13396).	
CONF #: 67-13397 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-13397).	
CONF #: 67-13398 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13398).	
CONF #: 67-13399 Removed	MAY contain zero or more [0..*] methodCode (CONF:67-13399).	
CONF #: 67-13401 Removed	SHALL contain exactly one [1..1] time (CONF:67-13401).	
CONF #: 67-13404 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-13404).	
CONF #: 67-13407 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-13407).	
CONF #: 67-13410 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	Radiation Dosage and Duration (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.91) (CONF:67-13410).	
CONF #: 1140-13392 Modified	SHALL contain exactly one [1..1] @moodCode="INT" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13400 Modified	SHALL contain exactly one [1..1] author	author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.119)
CONF #: 1140-13403 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13406 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13409 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.23 Diagnostic Study Result (RETIRED)

Diagnostic Study Result (RETIRED) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.20:2014-12-01)

Change	Old	New
Name	Diagnostic Study Result	Diagnostic Study Result (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.20	urn:hl7ii:2.16.840.1.113883.10.20.24.3.20:2014-12-01
Description	<p>This template describes a result of a diagnostic study on a patient in concepts or numerical values. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others. A time/date stamp is required.</p>	<p>This template represents the QDM datatype: Diagnostic Study, Result.</p> <p>This datatype describes a result of a diagnostic study on a patient in concepts or numerical values. Diagnostic studies are those that are not performed in the clinical laboratory. Such studies include but are not limited to imaging studies, cardiology studies (electrocardiogram, treadmill stress testing), pulmonary function testing, vascular laboratory testing, and others. A time/date stamp is required.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Diagnostic Study, Result has been removed.</p>
Implied Template	Result Observation (urn:oid:2.16.840.1.113883.10.20.22.4.2)	
CONF #: 67-14168 Removed	SHALL contain exactly one [1..1] Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:67-14168).	
CONF #: 67-13795 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-13795) such that it	
CONF #: 67-13796 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.20" (CONF:67-13796).	
CONF #: 67-13798 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-13798) such that it	
CONF #: 67-13799 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002	

Change	Old	New
	STATIC) (CONF:67-13799).	
CONF #: 67-13800 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-13800).	
CONF #: 67-13801 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 13801) such that it	
CONF #: 67-13802 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13802).	
CONF #: 67-13803 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-13803).	
CONF #: 67-13804 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 13804) such that it	
CONF #: 67-13805 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13805).	
CONF #: 67-13806 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-13806).	
CONF #: 67-13811 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 13811) such that it	
CONF #: 67-13812 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13812).	
CONF #: 67-13813 Removed	SHALL contain exactly one [1..1] Radiation Dosage and Duration (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.91) (CONF:67-13813).	
CONF #: 67-14166 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 14166) such that it	
CONF #: 67-14167 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-14167).	

Change	Old	New
CONF #: 67-16695 Removed	SHALL contain exactly one [1..1] value (CONF:67-16695).	
CONF #: 67-16696 Removed	If xsi:type=PQ, then @units shall be drawn from Unified Code for Units of Measure (UCUM) 2.16.840.1.113883.6.8 code system. Additional constraint is dependent on criteria in the corresponding eMeasure (CONF:67-16696).	

11.24 Discharge Medication - Active Medication (V2)

Discharge Medication - Active Medication (V2)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.105:2014-12-01)

Change	Old	New
Name	Discharge Medication - Active Medication	Discharge Medication - Active Medication (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.105	urn:hl7ii:2.16.840.1.113883.10.20.24.3.105:2014-12-01
Description	The clinical statement represents an active medication that the patient is taking at the time of discharge.	This template represents the QDM datatype: Medication, Discharge. This template represents an active medication that the patient is taking at the time of discharge. QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.
CONF #: 1140-27037 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27037).
CONF #: 1140-28065 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28065).
CONF #: 1140-28140 Added		This code SHALL contain exactly one [1..1] @code="10183-2" Discharge medication (CONF:1140-28140).
CONF #: 1140-28141 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28141).
CONF #: 1140-16550 Modified	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-16551 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-16552 Modified	SHALL contain exactly one [1..1] code="10183-2" Discharge medication (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1	SHALL contain exactly one [1..1] code

Change	Old	New
	STATIC)	
CONF #: 1140-16554 Modified	SHALL contain exactly one [1..1] @typeCode="SUBJ" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="SUBJ" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16555 Modified	SHALL contain exactly one [1..1] Medication Active (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.41)	SHALL contain exactly one [1..1] Medication Active (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.41:2014-12-01)

11.25 Encounter Active (V2)

Encounter Active (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.21:2014-12-01)

Change	Old	New
Name	Encounter Active	Encounter Active (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.21	urn:hl7ii:2.16.840.1.113883.10.20.24.3.21:2014-12-01
Description	This clinical statement describes an active interaction between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges. The statusCode is constrained to "active".	This template represents the QDM datatype: Encounter, Active. Encounter Active describes an active interaction between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges. The statusCode is constrained to "active".
Implied Template	Encounter Activities (urn:oid:2.16.840.1.113883.10.20.22.4.49)	Encounter Activity (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.49:2014-06-09)
CONF #: 1140-27269 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27269).
CONF #: 1140-27270 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27270).
CONF #: 1140-27157 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27157).
CONF #: 1140-26551 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-26551).
CONF #: 1140-27530 Added		SHALL contain exactly one [1..1] @classCode="ENC" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27530).
CONF #: 1140-27531 Added		SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27531).
CONF #: 1140-27621 Added		SHALL contain exactly one [1..1] code (CONF:1140-27621).
CONF #: 1140-27622 Added		This code SHALL contain exactly

Change	Old	New
		one [1..1] @sdtc:valueSet (CONF:1140-27622).
CONF #: 67-11894 Removed	SHALL contain exactly one [1..1] code (CONF:67-11894).	
CONF #: 67-11903 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11903).	
CONF #: 67-11906 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11906).	
CONF #: 67-11909 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-11909).	
CONF #: 1140-11896 Modified	This statusCode SHALL contain exactly one [1..1] @code="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-11902 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11905 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11908 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.26 Encounter Order (V2)

Encounter Order (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.22:2014-12-01)

Change	Old	New
Name	Encounter Order	Encounter Order (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.22	urn:hl7ii:2.16.840.1.113883.10.20.24.3.22:2014-12-01
Description	This template describes an order for an encounter. This clinical statement describes the ordered interactions between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges. A date/time stamp is required. MoodCode is constrained to "RQO" and actStatus is constrained to "new". Author is required to represent the ordering clinician.	<p>This template represents the QDM datatype: Encounter, Order.</p> <p>This datatype describes an order for an encounter. This clinical statement describes the ordered interactions between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges.</p> <p>The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.</p>
Implied Template	Plan of Care Activity Encounter (urn:oid:2.16.840.1.113883.10.20.22.4.40)	Planned Encounter (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09)
CONF #: 1140-27223 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27223).
CONF #: 1140-27341 Added		author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27341).
CONF #: 1140-27224 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.

Change	Old	New
		24.3.84:2014-12-01) (CONF:1140-27224).
CONF #: 1140-27064 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27064).
CONF #: 1140-27534 Added		SHALL contain exactly one [1..1] @classCode="ENC" Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27534).
CONF #: 1140-27623 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27623).
CONF #: 67-11943 Removed	The participant, if present, SHALL contain exactly one [1..1] Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.32) (CONF:67-11943).	
CONF #: 67-11937 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-11937).	
CONF #: 67-11938 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-11938).	
CONF #: 67-11939 Removed	SHALL contain exactly one [1..1] author (CONF:67-11939).	
CONF #: 67-11940 Removed	This author SHALL contain exactly one [1..1] time (CONF:67-11940).	
CONF #: 67-11941 Removed	MAY contain zero or more [0..*] participant (CONF:67-11941).	
CONF #: 67-11942 Removed	The participant, if present, SHALL contain exactly one [1..1] @typeCode="LOC" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11942).	
CONF #: 67-11946 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11946).	
CONF #: 67-11949 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11949).	
CONF #: 1140-11932 Modified	SHALL contain exactly one [1..1] @moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)

Change	Old	New
CONF #: 1140-11945 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11948 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11951 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11952 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.88:2014-12-01)

11.27 Encounter Performed (V2)

Encounter Performed (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.23:2014-12-01)

Change	Old	New
Name	Encounter Performed	Encounter Performed (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.23	urn:hl7ii:2.16.840.1.113883.10.20.24.3.23:2014-12-01
Description	This clinical statement describes the interactions between the patient and clinicians that have been completed. Interactions include in-person encounters, telephone conversations, and email exchanges. The actStatus is constrained to "completed" and both a low and high effectiveTime are required.	This template represents the QDM datatype: Encounter, Performed. The Encounter, Performed describes the interactions between the patient and clinicians that have been completed. Interactions include in-person encounters, telephone conversations, and email exchanges. The actStatus is constrained to "completed" and both a low and high effectiveTime are required.
Implied Template	Encounter Activities (urn:oid:2.16.840.1.113883.10.20.22.4.49)	Encounter Activity (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.49:2014-06-09)
CONF #: 1140-27267 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27267).
CONF #: 1140-27268 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27268).
CONF #: 1140-27158 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27158).
CONF #: 1140-26552 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-26552).
CONF #: 1140-27532 Added		SHALL contain exactly one [1..1] @classCode="ENC" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27532).
CONF #: 1140-27533 Added		SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27533).
CONF #: 1140-27624 Added		SHALL contain exactly one [1..1]

Change	Old	New
		code (CONF:1140-27624).
CONF #: 1140-27625 Added		This code SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27625).
CONF #: 67-11864 Removed	SHALL contain exactly one [1..1] code (CONF:67-11864).	
CONF #: 67-11867 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11867).	
CONF #: 67-11870 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11870).	
CONF #: 67-11873 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-11873).	
CONF #: 67-13386 Removed	MAY contain zero or one [0..1] Transfer From (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.81) (CONF:67-13386).	
CONF #: 67-13387 Removed	MAY contain zero or one [0..1] Transfer To (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.82) (CONF:67-13387).	
CONF #: 1140-11866 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11869 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11872 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11875 Modified	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)

11.28 Encounter Recommended (V2)

Encounter Recommended (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.24:2014-12-01)

Change	Old	New
Name	Encounter Recommended	Encounter Recommended (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.24	urn:hl7ii:2.16.840.1.113883.10.20.24.3.24:2014-12-01
Description	This template describes a recommendation for an encounter. This clinical statement describes the recommended interaction between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges. A date/time stamp is required. MoodCode is constrained to "INT" and actStatus is constrained to "new". Author is required to represent the clinician recommending the encounter.	<p>This template represents the QDM datatype: Encounter, Recommended.</p> <p>This datatype describes a recommendation for an encounter. This clinical statement describes the recommended interaction between the patient and clinicians. Interactions include in-person encounters, telephone conversations, and email exchanges.</p> <p>The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.</p>
Implied Template	Plan of Care Activity Encounter (urn:oid:2.16.840.1.113883.10.20.22.4.40)	Planned Encounter (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.40:2014-06-09)
CONF #: 1140-27221 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27221).
CONF #: 1140-27347 Added		author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27347).

Change	Old	New
CONF #: 1140-27222 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27222).
CONF #: 1140-27065 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27065).
CONF #: 1140-27066 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27066).
CONF #: 1140-27549 Added		SHALL contain exactly one [1..1] @classCode="ENC" Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27549).
CONF #: 1140-27626 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27626).
CONF #: 67-11922 Removed	The participant, if present, SHALL contain exactly one [1..1] Service Delivery Location (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.32) (CONF:67-11922).	
CONF #: 67-11916 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-11916).	
CONF #: 67-11917 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-11917).	
CONF #: 67-11918 Removed	SHALL contain exactly one [1..1] author (CONF:67-11918).	
CONF #: 67-11919 Removed	This author SHALL contain exactly one [1..1] time (CONF:67-11919).	
CONF #: 67-11920 Removed	MAY contain zero or one [0..1] participant (CONF:67-11920).	
CONF #: 67-11921 Removed	The participant, if present, SHALL contain exactly one [1..1] @typeCode="LOC" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11921).	
CONF #: 67-11925 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.3.83) (CONF:67-11925).	
CONF #: 67-11928 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-11928).	
CONF #: 67-11931 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88) (CONF:67-11931).	
CONF #: 1140-11911 Modified	SHALL contain exactly one [1..1] @moodCode="INT" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11924 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11927 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11930 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.29 Functional Status Order (V2)

Functional Status Order (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.25:2014-12-01)

Change	Old	New
Name	Functional Status Order	Functional Status Order (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.25	urn:hl7ii:2.16.840.1.113883.10.20.24.3.25:2014-12-01
Description	<p>This template represents an order to perform a functional status assessment.</p> <p>Functional status assessments are specific tools that evaluate an individual patient's actual physical or behavioral performance as an indicator of capabilities at a point in time. The functional status assessment can be used in measurement to determine change in physical or behavioral performance over time. A time/date stamp is required. MoodCode is constrained to "INT" and actStatus is constrained to "new". Author is required to represent the recommending clinician.</p>	<p>This template represents the QDM datatype: Functional Status, Order.</p> <p>This datatype represents an order to perform a functional status assessment. Functional status assessments are specific tools that evaluate an individual patient's actual physical or behavioral performance as an indicator of capabilities at a point in time. The functional status assessment can be used in measurement to determine change in physical or behavioral performance over time.</p> <p>The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.44)	Planned Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)
CONF #: 1140-27213 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27213).

Change	Old	New
CONF #: 1140-27342 Added		author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27342).
CONF #: 1140-27214 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27214).
CONF #: 1140-27071 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27071).
CONF #: 1140-27627 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27627).
CONF #: 1140-27725 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27725).
CONF #: 1140-28066 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28066).
CONF #: 67-12779 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-12779).	
CONF #: 67-12780 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-12780).	
CONF #: 67-12781 Removed	MAY contain zero or more [0..*] methodCode (CONF:67-12781).	
CONF #: 67-12782 Removed	SHALL contain exactly one [1..1] author (CONF:67-12782) such that it	
CONF #: 67-12783 Removed	SHALL contain exactly one [1..1] time (CONF:67-12783).	
CONF #: 67-12786 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.3.83) (CONF:67-12786).	
CONF #: 67-12789 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.3.84) (CONF:67-12789).	
CONF #: 1140-12774 Modified	SHALL contain exactly one [1..1]	SHALL contain exactly one [1..1]

Change	Old	New
	@moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	@moodCode="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12785 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12788 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12791 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12792 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.88:2014-12-01)

11.30 Functional Status Performed (V2)

Functional Status Performed (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.26:2014-12-01)

Change	Old	New
Name	Functional Status Performed	Functional Status Performed (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.26	urn:hl7ii:2.16.840.1.113883.10.20.24.3.26:2014-12-01
Description	The Functional Status Performed template represents the completion of a functional status assessment. It does not represent all of the details in a complete functional status assessment. MoodCode is constrained to "EVN" and statusCode is constrained to "completed".	<p>This template represents the QDM datatype: Functional Status, Performed.</p> <p>The Functional Status Performed template represents the completion of a functional status assessment. It does not represent all of the details in a complete functional status assessment. MoodCode is constrained to "EVN" and statusCode is constrained to "completed". If there is a result, it is recorded in value.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Procedure Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.13)	Procedure Activity Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.13:2014-06-09)
CONF #: 1140-27172 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27172).
CONF #: 1140-27137 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27137).
CONF #: 1140-27173 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27173).
CONF #: 1140-27138 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27138).

Change	Old	New
CONF #: 1140-27372 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27372).
CONF #: 1140-27373 Added		MAY contain zero or more [0..*] entryRelationship (CONF:1140-27373) such that it
CONF #: 1140-27374 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27374).
CONF #: 1140-27375 Added		SHALL contain exactly one [1..1] Result (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01) (CONF:1140-27375).
CONF #: 1140-27560 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27560).
CONF #: 1140-27561 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27561).
CONF #: 1140-27628 Added		SHALL contain exactly one [1..1] code (CONF:1140-27628).
CONF #: 1140-27629 Added		This code SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27629).
CONF #: 1140-27717 Added		MAY contain zero or one [0..1] methodCode (CONF:1140-27717).
CONF #: 1140-27718 Added		The methodCode, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27718).
CONF #: 1140-28067 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28067).
CONF #: 67-12757 Removed	SHALL contain exactly one [1..1] code (CONF:67-12757).	
CONF #: 67-12767 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88) (CONF:67-12767).	
CONF #: 67-12770 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12770).	
CONF #: 67-12773 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier:	

Change	Old	New
	urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-12773).	
CONF #: 1140-12752 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12759 Modified	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-12766 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12769 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12772 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.31 Functional Status Recommended (V2)

Functional Status Recommended (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.27:2014-12-01)

Change	Old	New
Name	Functional Status Recommended	Functional Status Recommended (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.27	urn:hl7ii:2.16.840.1.113883.10.20.24.3.27:2014-12-01
Description	<p>This template represents a recommendation to perform a functional status assessment. Functional status assessments are specific tools that evaluate an individual patient's actual physical or behavioral performance as an indicator of capabilities at a point in time. The functional status assessment can be used in measurement to determine change in physical or behavioral performance over time.</p>	<p>This template represents the QDM datatype: Functional Status, Recommended.</p> <p>The Functional Status template represents a recommendation to perform a functional status assessment. Functional status assessments are specific tools that evaluate an individual patient's actual physical or behavioral performance as an indicator of capabilities at a point in time. The functional status assessment can be used in measurement to determine change in physical or behavioral performance over time.</p> <p>The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.44)	Planned Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)

Change	Old	New
CONF #: 1140-27211 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27211).
CONF #: 1140-27348 Added		author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27348).
CONF #: 1140-27212 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27212).
CONF #: 1140-27072 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27072).
CONF #: 1140-27630 Added		SHALL contain exactly one [1..1] code (CONF:1140-27630).
CONF #: 1140-27631 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27631).
CONF #: 1140-27724 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27724).
CONF #: 1140-28068 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28068).
CONF #: 67-12818 Removed	SHALL contain exactly one [1..1] code (CONF:67-12818).	
CONF #: 67-12819 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-12819).	
CONF #: 67-12820 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-12820).	
CONF #: 67-12821 Removed	MAY contain zero or more [0..*] methodCode (CONF:67-12821).	
CONF #: 67-12822 Removed	SHALL contain exactly one [1..1] author (CONF:67-12822) such that it	
CONF #: 67-12823 Removed	SHALL contain exactly one [1..1] time (CONF:67-12823).	

Change	Old	New
CONF #: 67-12826 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12826).	
CONF #: 67-12829 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12829).	
CONF #: 1140-12814 Modified	SHALL contain exactly one [1..1] @moodCode="INT" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12825 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12828 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12831 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12832 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.88:2014-12-01)

11.32 Functional Status Result (RETIRED)

Functional Status Result (RETIRED) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.28:2014-12-01)

Change	Old	New
Name	Functional Status Result	Functional Status Result (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.28	urn:hl7ii:2.16.840.1.113883.10.20.24.3.28:2014-12-01
Description	This clinical statement represents the results of a functional status assessment. This template uses the Result Observation template to represent physical or behavioral performance.	<p>This template represents the QDM datatype: Functional Status, Result.</p> <p>This clinical statement represents the results of a functional status assessment. This template uses the Result Observation template to represent physical or behavioral performance.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Functional Status, Result has been removed.</p>
Implied Template	Functional Status Result Observation (urn:oid:2.16.840.1.113883.10.20.22.4.67)	
CONF #: 67-12835 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-12835) such that it	
CONF #: 67-12836 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.28" (CONF:67-12836).	
CONF #: 67-12841 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-12841) such that it	
CONF #: 67-12842 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12842).	
CONF #: 67-12843 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12843).	
CONF #: 67-12844 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-	

Change	Old	New
	12844) such that it	
CONF #: 67-12845 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12845).	
CONF #: 67-12846 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12846).	
CONF #: 67-12847 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 12847) such that it	
CONF #: 67-12848 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12848).	
CONF #: 67-12849 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-12849).	

11.33 Intervention Adverse Event (V2)

Intervention Adverse Event (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.29:2014-12-01)

Change	Old	New
Name	Intervention Adverse Event	Intervention Adverse Event (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.29	urn:hl7ii:2.16.840.1.113883.10.20.24.3.29:2014-12-01
Description	An Intervention Adverse Event is an unexpected or dangerous reaction to an intervention. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolonging hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter.	<p>This template represents the QDM datatype: Intervention, Adverse Event.</p> <p>An Intervention Adverse Event is an unexpected or dangerous reaction to an intervention. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolonging hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Act Intolerance or Adverse Event Observation (urn:oid:2.16.840.1.113883.10.20.24.3.104)	Act Intolerance or Adverse Event Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01)
CONF #: 1140-27151 Added		SHALL contain exactly one [1..1] Intervention Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01) (CONF:1140-27151).
CONF #: 1140-27248 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27248).

Change	Old	New
CONF #: 1140-27271 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27271).
CONF #: 1140-27016 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27016).
CONF #: 1140-28069 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28069).
CONF #: 67-13543 Removed	SHALL contain exactly one [1..1] code (CONF:67-13543).	
CONF #: 67-13544 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-13544).	
CONF #: 67-13545 Removed	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13545).	
CONF #: 67-13546 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-13546).	
CONF #: 67-13547 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67-13547).	
CONF #: 67-13548 Removed	This effectiveTime SHOULD contain zero or one [0..1] high (CONF:67-13548).	
CONF #: 67-13553 Removed	SHOULD contain zero or one [0..1] entryRelationship (CONF:67-13553) such that it	
CONF #: 67-13554 Removed	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13554).	
CONF #: 67-13555 Removed	SHALL contain exactly one [1..1] @inversionInd="true" (CONF:67-13555).	
CONF #: 67-13556 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.85) (CONF:67-13556).	
CONF #: 67-13559 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-13559).	

Change	Old	New
CONF #: 67-13562 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-13562).	
CONF #: 67-13563 Removed	SHALL contain exactly one [1..1] Intervention Performed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.32) (CONF:67-13563).	
CONF #: 1140-13538 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-13539 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13550 Modified	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13558 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13561 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16413 Modified	This value SHALL contain exactly one [1..1] @code="281647001" Adverse reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This value SHALL contain exactly one [1..1] @code="281647001" Adverse reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96)

11.34 Intervention Intolerance (V2)

Intervention Intolerance (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.30:2014-12-01)

Change	Old	New
Name	Intervention Intolerance	Intervention Intolerance (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.30	urn:hl7ii:2.16.840.1.113883.10.20.24.3.30:2014-12-01
Description	<p>This template represents an intolerance to an intervention generally perceived and reported by the patient. This might be used to document why recommended interventions were not completed. A patient may claim the pain from a physical therapy procedure was too great.</p>	<p>This template represents the QDM datatype: Intervention, Intolerance.</p> <p>An intervention intolerance is an intolerance to an intervention generally perceived and reported by the patient. This can be used to document why recommended interventions were not completed. For example, a patient may claim the pain from a physical therapy procedure was too great.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Act Intolerance or Adverse Event Observation (urn:oid:2.16.840.1.113883.10.20.24.3.104)	Act Intolerance or Adverse Event Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01)
CONF #: 1140-27246 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27246).
CONF #: 1140-27247 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27247).
CONF #: 1140-27017 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27017).

Change	Old	New
CONF #: 1140-28070 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28070).
CONF #: 67-13662 Removed	SHALL contain exactly one [1..1] code (CONF:67-13662).	
CONF #: 67-13663 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-13663).	
CONF #: 67-13664 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-13664).	
CONF #: 67-13665 Removed	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13665).	
CONF #: 67-13666 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-13666).	
CONF #: 67-13667 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67- 13667).	
CONF #: 67-13668 Removed	This effectiveTime SHOULD contain zero or one [0..1] high (CONF:67- 13668).	
CONF #: 67-13669 Removed	SHOULD contain zero or one [0..1] entryRelationship (CONF:67- 13669) such that it	
CONF #: 67-13670 Removed	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13670).	
CONF #: 67-13671 Removed	SHALL contain exactly one [1..1] @inversionInd="true" (CONF:67- 13671).	
CONF #: 67-13672 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85) (CONF:67-13672).	
CONF #: 67-13675 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-13675).	
CONF #: 67-13678 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-13678).	
CONF #: 1140-13657 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem:	SHALL contain exactly one [1..1] @classCode="OBS" Observation

Change	Old	New
	HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	(CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-13658 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13674 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-13677 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-13680 Modified	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-13683 Modified	SHALL contain exactly one [1..1] Intervention Performed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.32)	SHALL contain exactly one [1..1] Intervention Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.32:2014-12-01)
CONF #: 1140-16415 Modified	This value SHALL contain exactly one [1..1] @code="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This value SHALL contain exactly one [1..1] @code="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96)

11.35 Intervention Order (V2)

Intervention Order (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.31:2014-12-01)

Change	Old	New
Name	Intervention Order	Intervention Order (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.31	urn:hl7ii:2.16.840.1.113883.10.20.24.3.31:2014-12-01
Description	<p>AN intervention order is a request by a physician or appropriately licensed care provider to an appropriate provider or facility to perform a service and/or other type of action necessary for care. An example of this is an order for smoking cessation counseling or physical therapy. A date/time stamp is required and moodCode is constrained to "RQO". An author is required to represent the ordering clinician.</p>	<p>This template represents the QDM datatype: Intervention, Order.</p> <p>An intervention order is a request by a physician or appropriately licensed care provider to an appropriate provider or facility to perform a service and/or other type of action necessary for care. An example of this is an order for smoking cessation counseling or physical therapy.</p> <p>The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Act (urn:oid:2.16.840.1.113883.10.20.22.4.39)	Planned Act (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09)
CONF #: 1140-27263 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27263).
CONF #: 1140-27343 Added		author/time/low represents the time the order is placed and

Change	Old	New
		author/time/high represents the time the order placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27343).
CONF #: 1140-27264 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27264).
CONF #: 1140-27159 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27159).
CONF #: 1140-26556 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-26556).
CONF #: 1140-27353 Added		SHALL contain exactly one [1..1] @classCode="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27353).
CONF #: 1140-27632 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27632).
CONF #: 1140-28071 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28071).
CONF #: 67-13747 Removed	SHALL contain exactly one [1..1] author (CONF:67-13747).	
CONF #: 67-13748 Removed	This author SHALL contain exactly one [1..1] time (CONF:67-13748).	
CONF #: 67-13752 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.3.83) (CONF:67-13752).	
CONF #: 67-13755 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.3.84) (CONF:67-13755).	
CONF #: 67-13758 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.3.88) (CONF:67-13758).	
CONF #: 1140-13742 Modified	SHALL contain exactly one [1..1] @moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001	SHALL contain exactly one [1..1] @moodCode="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)

Change	Old	New
	STATIC)	
CONF #: 1140-13751 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13754 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13757 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.36 Intervention Performed (V2)

Intervention Performed (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01)

Change	Old	New
Name	Intervention Performed	Intervention Performed (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.32	urn:hl7ii:2.16.840.1.113883.10.20.24.3.32:2014-12-01
Description	<p>This template indicates that an intervention has been completed. An intervention is an influencing force or act to modify a given state of affairs. An intervention is any action carried out (by a healthcare provider or a consumer) to improve or maintain the health of a subject of care with the expectation of producing an outcome. A date/time stamp is required and moodCode is constrained to "EVN".</p>	<p>This template represents the QDM datatype: Intervention, Performed.</p> <p>This template indicates that an intervention has been completed. An intervention is an influencing force or act to modify a given state of affairs. An intervention is any action carried out (by a healthcare provider or a consumer) to improve or maintain the health of a subject of care with the expectation of producing an outcome. MoodCode is constrained to "EVN".</p> <p>QDM Attribute: Start Datetime is represented by effectiveTime/low and is the time the intervention begins. QDM Attribute: Stop Datetime is represented by effectiveTime/low and is the time the intervention ends.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Procedure Activity Act (urn:oid:2.16.840.1.113883.10.20.22.4.12)	Procedure Activity Act (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.12:2014-06-09)
CONF #: 1140-27168 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27168).
CONF #: 1140-27169 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27169).
CONF #: 1140-27143 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier:

Change	Old	New
		urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27143).
CONF #: 1140-27144 Added		SHALL contain exactly one [1..1] @extension (CONF:1140-27144).
CONF #: 1140-27354 Added		SHALL contain exactly one [1..1] @classCode="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27354).
CONF #: 1140-27356 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-27356) such that it
CONF #: 1140-27357 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27357).
CONF #: 1140-27358 Added		SHALL contain exactly one [1..1] Result (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01) (CONF:1140-27358).
CONF #: 1140-27359 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-27359) such that it
CONF #: 1140-27360 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CONF:1140-27360).
CONF #: 1140-27361 Added		SHALL contain exactly one [1..1] Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:1140-27361).
CONF #: 1140-27362 Added		SHALL contain exactly one [1..1] statusCode (CONF:1140-27362).
CONF #: 1140-27363 Added		This statusCode SHALL contain exactly one [1..1] @code="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-27363).
CONF #: 1140-27633 Added		SHALL contain exactly one [1..1] code (CONF:1140-27633).
CONF #: 1140-27634 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27634).
CONF #: 1140-28072 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28072).
CONF #: 67-13594 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	code (CONF:67-13594).	
CONF #: 67-13600 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-13600).	
CONF #: 67-13603 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-13603).	
CONF #: 67-13606 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-13606).	
CONF #: 1140-13590 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13599 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13602 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13605 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13613 Modified	This effectiveTime SHALL contain exactly one [1..1] high	This effectiveTime MAY contain zero or one [0..1] high

11.37 Intervention Recommended (V2)

Intervention Recommended (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.33:2014-12-01)

Change	Old	New
Name	Intervention Recommended	Intervention Recommended (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.33	urn:hl7ii:2.16.840.1.113883.10.20.24.3.33:2014-12-01
Description	<p>This clinical statement represents a recommendation for an intervention. An intervention is an influencing force or act to modify a given state of affairs. An intervention is any action carried out (by a healthcare provider or a consumer) to improve or maintain the health of a subject of care with the expectation of producing an outcome. An example of this is a recommendation for smoking cessation counseling. A date/time stamp is required and moodCode is constrained to "INT". An author is required to represent the clinician recommending the intervention.</p>	<p>This template represents the QDM datatype: Intervention, Recommended.</p> <p>An intervention recommendation is a recommendation for an influencing force or act to modify a given state of affairs. An intervention is any action carried out (by a healthcare provider or a consumer) to improve or maintain the health of a subject of care with the expectation of producing an outcome. An example of this is a recommendation for smoking cessation counseling.</p> <p>The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Act (urn:oid:2.16.840.1.113883.10.20.22.4.39)	Planned Act (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.39:2014-06-09)
CONF #: 1140-27261 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier:

Change	Old	New
		urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27261).
CONF #: 1140-27349 Added		author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27349).
CONF #: 1140-27262 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27262).
CONF #: 1140-27160 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27160).
CONF #: 1140-26557 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-26557).
CONF #: 1140-27355 Added		SHALL contain exactly one [1..1] @classCode="ACT" Act (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27355).
CONF #: 1140-27635 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27635).
CONF #: 1140-28073 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28073).
CONF #: 67-13768 Removed	SHALL contain exactly one [1..1] author (CONF:67-13768).	
CONF #: 67-13769 Removed	This author SHALL contain exactly one [1..1] time (CONF:67-13769).	
CONF #: 67-13773 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-13773).	
CONF #: 67-13776 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-13776).	
CONF #: 67-13779 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2	

Change	Old	New
	4.3.88) (CONF:67-13779).	
CONF #: 67-13783 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-13783).	
CONF #: 1140-13763 Modified	SHALL contain exactly one [1..1] @moodCode="INT" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13772 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13775 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13778 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.38 Intervention Result (RETIRED)

Intervention Result (RETIRED) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.34:2014-12-01)

Change	Old	New
Name	Intervention Result	Intervention Result (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.34	urn:hl7ii:2.16.840.1.113883.10.20.24.3.34:2014-12-01
Description	This template represents the finding identified as a result of an intervention. A date/time stamp is required, moodCode is constrained to "EVN" and statusCode is constrained to "completed".	<p>This template represents the QDM datatype: Intervention, Result.</p> <p>This template represents the finding identified as a result of an intervention. A date/time stamp is required, moodCode is constrained to "EVN" and statusCode is constrained to "completed".</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Intervention, Result has been removed.</p>
Implied Template	Procedure Activity Act (urn:oid:2.16.840.1.113883.10.20.22.4.12)	
CONF #: 67-13740 Removed	SHALL contain exactly one [1..1] Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:67-13740).	
CONF #: 67-13710 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-13710) such that it	
CONF #: 67-13711 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.34" (CONF:67-13711).	
CONF #: 67-13713 Removed	SHALL contain exactly one [1..1] code (CONF:67-13713).	
CONF #: 67-13714 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-13714).	
CONF #: 67-13715 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67-13715).	
CONF #: 67-13716 Removed	This effectiveTime SHALL contain exactly one [1..1] high (CONF:67-13716).	
CONF #: 67-13717 Removed	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood	

Change	Old	New
	urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:67-13717).	
CONF #: 67-13718 Removed	SHALL contain exactly one [1..1] entryRelationship (CONF:67- 13718) such that it	
CONF #: 67-13719 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13719).	
CONF #: 67-13720 Removed	SHALL contain exactly one [1..1] Result (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.87) (CONF:67-13720).	
CONF #: 67-13721 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-13721).	
CONF #: 67-13722 Removed	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13722).	
CONF #: 67-13729 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 13729) such that it	
CONF #: 67-13730 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13730).	
CONF #: 67-13731 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-13731).	
CONF #: 67-13732 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 13732) such that it	
CONF #: 67-13733 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13733).	
CONF #: 67-13734 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-13734).	
CONF #: 67-13735 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 13735) such that it	
CONF #: 67-13736 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	@typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13736).	
CONF #: 67-13737 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-13737).	
CONF #: 67-13738 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-13738) such that it	
CONF #: 67-13739 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-13739).	

11.39 Laboratory Test Adverse Event (V2)

Laboratory Test Adverse Event (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.35:2014-12-01)

Change	Old	New
Name	Laboratory Test Adverse Event	Laboratory Test Adverse Event (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.35	urn:hl7ii:2.16.840.1.113883.10.20.24.3.35:2014-12-01
Description	<p>This clinical statement template represents a laboratory test adverse event.</p> <p>A laboratory test adverse event is an unexpected or dangerous reaction to a laboratory test. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolong hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter.</p>	<p>This template represents the QDM datatype: Laboratory Test, Adverse Event.</p> <p>This template represents a laboratory test adverse event. A laboratory test adverse event is an unexpected or dangerous reaction to a laboratory test. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolong hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Act Intolerance or Adverse Event Observation (urn:oid:2.16.840.1.113883.10.20.24.3.104)	Act Intolerance or Adverse Event Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01)
CONF #: 1140-27154 Added		SHALL contain exactly one [1..1] Laboratory Test Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01) (CONF:1140-27154).
CONF #: 1140-27244 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.

Change	Old	New
		24.3.83:2014-12-01) (CONF:1140-27244).
CONF #: 1140-27245 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27245).
CONF #: 1140-27018 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27018).
CONF #: 1140-28074 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28074).
CONF #: 67-14064 Removed	SHALL contain exactly one [1..1] id (CONF:67-14064).	
CONF #: 67-14065 Removed	SHALL contain exactly one [1..1] code (CONF:67-14065).	
CONF #: 67-14066 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-14066).	
CONF #: 67-14067 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-14067).	
CONF #: 67-14068 Removed	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-14068).	
CONF #: 67-14069 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-14069).	
CONF #: 67-14070 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67-14070).	
CONF #: 67-14071 Removed	This effectiveTime SHOULD contain zero or one [0..1] high (CONF:67-14071).	
CONF #: 67-14075 Removed	SHALL contain exactly one [1..1] Laboratory Test Performed (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.38) (CONF:67-14075).	
CONF #: 67-14076 Removed	SHOULD contain zero or one [0..1] entryRelationship (CONF:67-14076) such that it	
CONF #: 67-14077 Removed	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-14077).	

Change	Old	New
CONF #: 67-14078 Removed	SHALL contain exactly one [1..1] @inversionInd="true" (CONF:67-14078).	
CONF #: 67-14079 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85) (CONF:67-14079).	
CONF #: 67-14082 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-14082).	
CONF #: 67-14085 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-14085).	
CONF #: 1140-14060 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-14061 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-14073 Modified	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-14081 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-14084 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16417 Modified	This value SHALL contain exactly one [1..1] @code="281647001" Adverse reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This value SHALL contain exactly one [1..1] @code="281647001" Adverse reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96)

11.40 Laboratory Test Intolerance (V2)

Laboratory Test Intolerance (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.36:2014-12-01)

Change	Old	New
Name	Laboratory Test Intolerance	Laboratory Test Intolerance (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.36	urn:hl7ii:2.16.840.1.113883.10.20.24.3.36:2014-12-01
Description	Laboratory test intolerance is a reaction in specific patients representing a low threshold to the normal reported or expected reactions of the study. Intolerance is generally based on patient report and perception of his or her ability to tolerate a properly executed laboratory study.	<p>This template represents the QDM datatype: Laboratory Test, Intolerance.</p> <p>Laboratory test intolerance is a reaction in specific patients representing a low threshold to the normal reported or expected reactions of the study. Intolerance is generally based on patient report and perception of his or her ability to tolerate a properly executed laboratory study.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Act Intolerance or Adverse Event Observation (urn:oid:2.16.840.1.113883.10.20.24.3.104)	Act Intolerance or Adverse Event Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01)
CONF #: 1140-27155 Added		SHALL contain exactly one [1..1] Laboratory Test Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01) (CONF:1140-27155).
CONF #: 1140-27255 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27255).
CONF #: 1140-27256 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier:

Change	Old	New
		urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27256).
CONF #: 1140-27019 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27019).
CONF #: 1140-28075 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28075).
CONF #: 67-13965 Removed	SHALL contain exactly one [1..1] id (CONF:67-13965).	
CONF #: 67-13966 Removed	SHALL contain exactly one [1..1] code (CONF:67-13966).	
CONF #: 67-13967 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-13967).	
CONF #: 67-13968 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-13968).	
CONF #: 67-13969 Removed	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13969).	
CONF #: 67-13970 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-13970).	
CONF #: 67-13971 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67-13971).	
CONF #: 67-13972 Removed	This effectiveTime SHOULD contain zero or one [0..1] high (CONF:67-13972).	
CONF #: 67-13976 Removed	SHALL contain exactly one [1..1] Laboratory Test Performed (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.38) (CONF:67-13976).	
CONF #: 67-13977 Removed	SHOULD contain zero or one [0..1] entryRelationship (CONF:67-13977) such that it	
CONF #: 67-13978 Removed	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:67-13978).	
CONF #: 67-13979 Removed	SHALL contain exactly one [1..1] @inversionInd="true" (CONF:67-13979).	

Change	Old	New
CONF #: 67-13980 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85) (CONF:67-13980).	
CONF #: 67-13983 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-13983).	
CONF #: 67-13986 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-13986).	
CONF #: 1140-13961 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-13962 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13974 Modified	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-13982 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-13985 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-16418 Modified	This value SHALL contain exactly one [1..1] @code="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This value SHALL contain exactly one [1..1] @code="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96)

11.41 Laboratory Test Order (V2)

Laboratory Test Order (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.37:2014-12-01)

Change	Old	New
Name	Laboratory Test Order	Laboratory Test Order (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.37	urn:hl7ii:2.16.840.1.113883.10.20.24.3.37:2014-12-01
Description	<p>This template represents an order for a laboratory test. A laboratory test is a medical procedure that involves testing a sample of blood, urine, or other substance from the body. Tests can help determine a diagnosis, plan treatment, check to see if treatment is working, or monitor the disease over time. A time/date stamp is required. MoodCode is constrained to "RQO" and actStatus is constrained to "new". Author is required to represent the ordering clinician. This represents the order only and does not include a result.</p>	<p>This template represents the QDM datatype: Laboratory Test, Order.</p> <p>This datatype represents an order for a laboratory test. A laboratory test is a medical procedure that involves testing a sample of blood, urine, or other substance from the body. Tests can help determine a diagnosis, plan treatment, check if treatment is working, or monitor the disease over time.</p> <p>The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.44)	Planned Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)
CONF #: 1140-27209 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27209).
CONF #: 1140-27344 Added		author/time/low represents the time the order is placed and

Change	Old	New
		author/time/high represents the time the order placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27344).
CONF #: 1140-27210 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27210).
CONF #: 1140-27074 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27074).
CONF #: 1140-27075 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27075).
CONF #: 1140-27417 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27417).
CONF #: 1140-27636 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27636).
CONF #: 1140-28076 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28076).
CONF #: 67-11958 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-11958).	
CONF #: 67-11959 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-11959).	
CONF #: 67-11960 Removed	MAY contain zero or more [0..*] methodCode (CONF:67-11960).	
CONF #: 67-11961 Removed	SHALL contain exactly one [1..1] author (CONF:67-11961) such that it	
CONF #: 67-11962 Removed	SHALL contain exactly one [1..1] time (CONF:67-11962).	
CONF #: 67-11965 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-11965).	
CONF #: 67-11968 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier:	

Change	Old	New
	urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-11968).	
CONF #: 67-11971 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88) (CONF:67-11971).	
CONF #: 1140-11953 Modified	SHALL contain exactly one [1..1] @moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11964 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11967 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11970 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.42 Laboratory Test Performed (V2)

Laboratory Test Performed (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01)

Change	Old	New
Name	Laboratory Test Performed	Laboratory Test Performed (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.38	urn:hl7ii:2.16.840.1.113883.10.20.24.3.38:2014-12-01
Description	The Laboratory Test Performed template represents the medical procedure of obtaining a sample of blood, urine, or other substance from the body. This template may not contain any information about the result of a lab test. The focus is on the procedure itself.	<p>This template represents the QDM datatype: Laboratory Test, Performed.</p> <p>The Laboratory Test Performed template represents the medical procedure of obtaining a sample of blood, urine, or other substance from the body. This template can also describe the result of a study in the clinical laboratory (traditionally chemistry, hematology, microbiology, serology, urinalysis, blood bank). A time/date stamp is required. If there is a result, it is recorded in value.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template		Result Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.2:2014-06-09)
CONF #: 1140-27253 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27253).
CONF #: 1140-27254 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27254).
CONF #: 1140-27161 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27161).

Change	Old	New
CONF #: 1140-27021 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27021).
CONF #: 1140-27637 Added		SHALL contain exactly one [1..1] code (CONF:1140-27637).
CONF #: 1140-27638 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27638).
CONF #: 1140-27748 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-27748) such that it
CONF #: 1140-27749 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27749).
CONF #: 1140-27750 Added		SHALL contain exactly one [1..1] Status (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.93) (CONF:1140-27750).
CONF #: 1140-28077 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28077).
CONF #: 67-11708 Removed	SHALL contain exactly one [1..1] code (CONF:67-11708).	
CONF #: 67-11714 Removed	MAY contain zero or one [0..1] methodCode (CONF:67-11714).	
CONF #: 67-11720 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11720).	
CONF #: 67-11726 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11726).	
CONF #: 67-11729 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-11729).	
CONF #: 1140-11705 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11706 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)

Change	Old	New
CONF #: 1140-11710 Modified	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-11719 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11725 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11728 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.43 Laboratory Test Recommended (V2)

Laboratory Test Recommended (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.39:2014-12-01)

Change	Old	New
Name	Laboratory Test Recommended	Laboratory Test Recommended (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.39	urn:hl7ii:2.16.840.1.113883.10.20.24.3.39:2014-12-01
Description	<p>This template represents a recommendation for a laboratory test. A laboratory test is a medical procedure that involves testing a sample of blood, urine, or other substance from the body. Tests can help determine a diagnosis, plan treatment, check to see if treatment is working, or monitor the disease over time. A time/date stamp is required. MoodCode is constrained to "INT" and actStatus is constrained to "new". Author is required to represent the recommending clinician. This represents the recommendation only and does not include a result.</p>	<p>This template represents the QDM datatype: Laboratory Test, Recommended.</p> <p>This datatype represents a recommendation for a laboratory test. A laboratory test is a medical procedure that involves testing a sample of blood, urine, or other substance from the body. Tests can help determine a diagnosis, plan treatment, check if treatment is working, or monitor the disease over time.</p> <p>The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.44)	Planned Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)
CONF #: 1140-27207 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-

Change	Old	New
		27207).
CONF #: 1140-27350 Added		author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27350).
CONF #: 1140-27208 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27208).
CONF #: 1140-27077 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27077).
CONF #: 1140-27416 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27416).
CONF #: 1140-27639 Added		SHALL contain exactly one [1..1] code (CONF:1140-27639).
CONF #: 1140-27640 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27640).
CONF #: 1140-28078 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28078).
CONF #: 67-11797 Removed	SHALL contain exactly one [1..1] code (CONF:67-11797).	
CONF #: 67-11798 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-11798).	
CONF #: 67-11799 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-11799).	
CONF #: 67-11803 Removed	MAY contain zero or one [0..1] methodCode (CONF:67-11803).	
CONF #: 67-11806 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-11806).	
CONF #: 67-11810 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-11810).	
CONF #: 67-11814 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	author (CONF:67-11814).	
CONF #: 67-11815 Removed	This author SHALL contain exactly one [1..1] time (CONF:67-11815).	
CONF #: 1140-11793 Modified	SHALL contain exactly one [1..1] @moodCode="INT" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11805 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11808 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11812 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11813 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

11.44Laboratory Test Result (RETIRED)

Laboratory Test Result (RETIRED) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.40:2014-12-01)

Change	Old	New
Name	Laboratory Test Result	Laboratory Test Result (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.40	urn:hl7ii:2.16.840.1.113883.10.20.24.3.40:2014-12-01
Description	This template describes the result of a study in the clinical laboratory (traditionally chemistry, hematology, microbiology, serology, urinalysis, blood bank). A time/date stamp is required.	<p>This template represents the QDM datatype: Laboratory Test, Result.</p> <p>This template describes the result of a study in the clinical laboratory (traditionally chemistry, hematology, microbiology, serology, urinalysis, blood bank). A time/date stamp is required.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Laboratory Test, Result has been removed.</p>
Implied Template	Result Observation (urn:oid:2.16.840.1.113883.10.20.22.4.2)	
CONF #: 67-11764 Removed	SHALL contain exactly one [1..1] Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:67-11764).	
CONF #: 67-11762 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-11762) such that it	
CONF #: 67-11763 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11763).	
CONF #: 67-11765 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-11765) such that it	
CONF #: 67-11766 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.40" (CONF:67-11766).	
CONF #: 67-12741 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-12741) such that it	
CONF #: 67-12742 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem:	

Change	Old	New
	HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12742).	
CONF #: 67-12743 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12743).	
CONF #: 67-12744 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 12744) such that it	
CONF #: 67-12745 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12745).	
CONF #: 67-12746 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12746).	
CONF #: 67-12747 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 12747) such that it	
CONF #: 67-12748 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12748).	
CONF #: 67-12749 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-12749).	
CONF #: 67-16697 Removed	SHALL contain exactly one [1..1] value (CONF:67-16697).	
CONF #: 67-16698 Removed	If xsi:type=PQ, then @units shall be drawn from Unified Code for Units of Measure (UCUM) 2.16.840.1.113883.6.8 code system. Additional constraint is dependent on criteria in the corresponding eMeasure (CONF:67-16698).	

11.45 Medication Active (V2)

Medication Active (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01)

Change	Old	New
Name	Medication Active	Medication Active (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.41	urn:hl7ii:2.16.840.1.113883.10.20.24.3.41:2014-12-01
Description	<p>This template represents a period of time when a medication is considered active for an individual. This may be medications that the patient has taken in the past and is no longer taking or medications that the patient is currently taking. For medications that a patient has taken in the past the effectiveTime will represent the period of time over which the patient was actively taking the medication. A time/date stamp is required. For currently active medications the effectiveTime will contain a low value which equates to the time the patient started taking medication and a nullFlavored high value. ActStatus is constrained to “active” and moodCode is constrained to “EVN”.</p> <p>Quality measures are sometimes interested in the total time a patient has been on a medication overtime (for example, how many total years a patient has been on birth control hormones in the past 5 years). This would be represented as separate substance administration and the cumulative duration calculated. For example, the sum of the number of medication dispensed days x number of medication refills over a set period of time, excluding any gaps during which a medication was not dispensed. For example, if a medication was prescribed for 30 days with three refills, followed by a gap of three months, then prescribed again for 60 days with two refills, the cumulative medication duration for would be $(30 \times 3) + (60 \times 2) = 210$ days over the 10-month period.</p>	<p>This template represents the QDM datatype: Medication, Active.</p> <p>Data elements that meet criteria using this datatype should document that the medication indicated by the QDM category and its corresponding value set is being taken by the patient. Keep in mind that when this datatype is used with timing relationships, the criterion is looking for a medication being taken for the time frame indicated by the timing relationships (which could be in the past).</p> <p>This datatype represents a period of time when a medication is considered active for an individual. This may be medications that the patient has taken in the past and is no longer taking or medications that the patient is currently taking. For medications that a patient has taken in the past the effectiveTime will represent the period of time over which the patient was actively taking the medication. A time/date stamp is required. For currently active medications the effectiveTime will contain a low value which equates to the time the patient started taking medication and a nullFlavored high value. ActStatus is constrained to “active” and moodCode is constrained to “EVN”.</p> <p>Quality measures are sometimes interested in the total time a patient has been on a medication over time (for example, how many total years a patient has been on birth control hormones in the past 5 years). This cumulative medication duration would be represented as separate substance</p>

Change	Old	New
		<p>administration and the cumulative duration calculated. For example, the sum of the number of medication dispensed days x number of medication refills over a set period of time, excluding any gaps during which a medication was not dispensed. For example, if a medication was prescribed for 30 days with three refills, followed by a gap of three months, then prescribed again for 60 days with two refills, the cumulative medication duration for would be $(30 \times 3) + (60 \times 2) = 210$ days over the 10-month period.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Medication Activity (urn:oid:2.16.840.1.113883.10.20.22.4.16)	Medication Activity (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.16:2014-06-09)
CONF #: 1140-27259 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27259).
CONF #: 1140-27260 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27260).
CONF #: 1140-26558 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-26558).
CONF #: 1140-27641 Added		<p>If the code used for QDM Attribute: Route does not exist in the value set Medication Route FDA (2.16.840.1.113883.3.88.12.3221.8.7) then set routeCode/@nullFlavor="OTH", routeCode/@codeSystem="2.16.840.1.113883.3.26.1.1" and use translation for the code.</p> <p>MAY contain zero or one [0..1] routeCode (CONF:1140-27641).</p>
CONF #: 1140-27642 Added		The routeCode, if present, MAY

Change	Old	New
		contain zero or more [0..*] translation (CONF:1140-27642).
CONF #: 1140-27643 Added		MAY contain zero or one [0..1] administrationUnitCode (CONF:1140-27643).
CONF #: 1140-27644 Added		The routeCode, if present, SHOULD contain zero or one [0..1] @sdtc:valueSet (CONF:1140- 27644).
CONF #: 1140-27645 Added		The translation, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140- 27645).
CONF #: 1140-27646 Added		The administrationUnitCode, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140- 27646).
CONF #: 1140-28005 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140- 28005) such that it
CONF #: 1140-28006 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CONF:1140-28006).
CONF #: 1140-28007 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.88:2014-12-01) (CONF:1140- 28007).
CONF #: 1140-28079 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28079).
CONF #: 67-12087 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12087).	
CONF #: 67-12090 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12090).	
CONF #: 1140-12081 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12086 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12089 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem:	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem:

Change	Old	New
	HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12413 Modified	This statusCode SHALL contain exactly one [1..1] @code="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)

11.46 Medication Administered (V2)

Medication Administered (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.42:2014-12-01)

Change	Old	New
Name	Medication Administered	Medication Administered (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.42	urn:hl7ii:2.16.840.1.113883.10.20.24.3.42:2014-12-01
Description	<p>This template represents a record by the care provider that a medication actually was administered. Appropriate time/date stamps for all medication administration are generated. This correlates with medications whose administration time is documented in an inpatient Medication Administration Record (MAR) as contrasted with an historical list of medication. This is represented by wrapping a Medication activity Template in an act with an actCode of “administration” a SNOMED-CT procedure code.</p>	<p>This template represents the QDM datatypes: Medication, Administered and Substance, Administered.</p> <p>This template represents a record by the care provider that a medication actually was administered. Appropriate time/date stamps for all medication administration are generated. This correlates with medications whose administration time is documented in an inpatient Medication Administration Record (MAR) as contrasted with an historical list of medication. This is represented by wrapping a Medication Activity template in an act with an actCode of “administration” a SNOMED CT procedure code.</p> <p>Quality measures are sometimes interested in the total time a patient has been on a medication over time (for example, how many total years a patient has been on birth control hormones in the past 5 years). This cumulative medication duration would be represented as separate contained substance administrations and the cumulative duration calculated. For example, the sum of the number of medication dispensed days x number of medication refills over a set period of time, excluding any gaps during which a medication was not dispensed. For example, if a medication was prescribed for 30 days with three refills, followed by a gap of three months, then prescribed again for 60 days with two refills, the cumulative medication duration for would be $(30 \times 3) + (60 \times 2) = 210$ days over the 10-month period.</p>

Change	Old	New
		<p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.</p>
CONF #: 1140-27239 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27239).
CONF #: 1140-27240 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27240).
CONF #: 1140-27022 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-27022) such that it
CONF #: 1140-27023 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27023).
CONF #: 1140-27024 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27024).
CONF #: 1140-27162 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27162).
CONF #: 1140-28080 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28080).
CONF #: 1140-28129 Added		This code SHALL contain exactly

Change	Old	New
		one [1..1] @codeSystem="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-28129).
CONF #: 67-12460 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12460).	
CONF #: 67-12463 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12463).	
CONF #: 1140-12444 Modified	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="ACT" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-12445 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12450 Modified	This code SHALL contain exactly one [1..1] @code="416118004" administration (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="416118004" administration
CONF #: 1140-12454 Modified	SHALL contain exactly one [1..1] entryRelationship	SHALL contain at least one [1..*] entryRelationship
CONF #: 1140-12455 Modified	SHALL contain exactly one [1..1] @typeCode="COMP" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="COMP" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12456 Modified	SHALL contain exactly one [1..1] Medication Activity (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.16)	SHALL contain exactly one [1..1] Medication Activity (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 22.4.16:2014-06-09)
CONF #: 1140-12457 Modified	This substanceAdministration SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	This substanceAdministration SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12459 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

Change	Old	New
CONF #: 1140-12462 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13241 Modified	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)

11.47Medication Adverse Effect (V2)

Medication Adverse Effect (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.43:2014-12-01)

Change	Old	New
Name	Medication Adverse Effect	Medication Adverse Effect (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.43	urn:hl7ii:2.16.840.1.113883.10.20.24.3.43:2014-12-01
Description	<p>This clinical statement represents a medication adverse effect. A medication adverse effect refers to a condition that occurs when medications or biological substances are administered and the condition is not considered an allergy. Examples of this are: electrolyte imbalances from diuretics administration, infections from immunosuppressant drugs and tumor development from medications for autoimmune diseases.</p>	<p>This template represents the QDM datatypes: Medication, Adverse Effect and Substance, Adverse Event.</p> <p>This datatype represents an adverse effect from a medication. A medication adverse effect refers to a condition that occurs when medications or biological substances are administered and the condition is not considered an allergy. Examples of this are: electrolyte imbalances from diuretics administration, infections from immunosuppressant drugs, and tumor development from medications for autoimmune diseases.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name and its members are subject</p>

Change	Old	New
		to change.
Implied Template	Allergy - Intolerance Observation (urn:oid:2.16.840.1.113883.10.20.22.4.7)	Allergy - Intolerance Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09)
CONF #: 1140-27235 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27235).
CONF #: 1140-27236 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27236).
CONF #: 1140-27124 Added		SHALL contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27124).
CONF #: 1140-27030 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27030).
CONF #: 1140-27964 Added		SHALL contain exactly one [1..1] participant (CONF:1140-27964) such that it
CONF #: 1140-27965 Added		SHALL contain exactly one [1..1] participantRole (CONF:1140-27965).
CONF #: 1140-27966 Added		This participantRole SHALL contain exactly one [1..1] playingEntity (CONF:1140-27966).
CONF #: 1140-27967 Added		This playingEntity SHALL contain exactly one [1..1] code (CONF:1140-27967).
CONF #: 1140-27968 Added		SHALL contain exactly one [1..1] @typeCode="CSM" Consumable (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-27968).
CONF #: 1140-27969 Added		This participantRole SHALL contain exactly one [1..1] @classCode="MANU" Manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-27969).
CONF #: 1140-27970 Added		This playingEntity SHALL contain exactly one [1..1] @classCode="MMAT" Manufactured material (CodeSystem: EntityClass

Change	Old	New
		urn:oid:2.16.840.1.113883.5.41) (CONF:1140-27970).
CONF #: 1140-27971 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27971).
CONF #: 1140-28081 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28081).
CONF #: 67-14114 Removed	SHALL contain exactly one [1..1] code (CONF:67-14114).	
CONF #: 67-14115 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-14115).	
CONF #: 67-14116 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-14116).	
CONF #: 67-14118 Removed	SHALL contain exactly one [1..1] participant (CONF:67-14118).	
CONF #: 67-14119 Removed	This participant SHALL contain exactly one [1..1] @typeCode="CSM" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:67-14119).	
CONF #: 67-14120 Removed	This participant SHALL contain exactly one [1..1] participantRole (CONF:67-14120).	
CONF #: 67-14121 Removed	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC) (CONF:67-14121).	
CONF #: 67-14122 Removed	This participantRole SHALL contain exactly one [1..1] playingEntity (CONF:67-14122).	
CONF #: 67-14123 Removed	This playingEntity SHALL contain exactly one [1..1] code (CONF:67-14123).	
CONF #: 67-14126 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-14126).	
CONF #: 67-14129 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-14129).	
CONF #: 67-14133 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2	

Change	Old	New
	4.3.85) (CONF:67-14133).	
CONF #: 67-14161 Removed	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-14161).	
CONF #: 1140-14110 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-14111 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-14125 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-14128 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-14135 Modified	This value SHALL contain exactly one [1..1] @code="62014003" Adverse drug effect (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This value SHALL contain exactly one [1..1] @code="62014003" Adverse drug effect (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96)

11.48 Medication Allergy (V2)

Medication Allergy (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.44:2014-12-01)

Change	Old	New
Name	Medication Allergy	Medication Allergy (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.44	urn:hl7ii:2.16.840.1.113883.10.20.24.3.44:2014-12-01
Description	<p>A medication allergy is an immunologically mediated reaction that exhibits specificity and recurs on re-exposure to the offending drug. This template may contain patient or provider preferences or thoughts about the allergy.</p>	<p>This template represents the QDM datatypes: Medication, Allergy and Substance, Allergy.</p> <p>A medication allergy is an immunologically mediated reaction that exhibits specificity and recurs on re-exposure to the offending drug. This template may contain patient or provider preferences or thoughts about the allergy.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Allergy - Intolerance Observation (urn:oid:2.16.840.1.113883.10.20.22.4.7)	Allergy - Intolerance Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09)
CONF #: 1140-27233 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-

Change	Old	New
		27233).
CONF #: 1140-27234 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27234).
CONF #: 1140-27125 Added		SHALL contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27125).
CONF #: 1140-27031 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27031).
CONF #: 1140-27972 Added		SHALL contain exactly one [1..1] participant (CONF:1140-27972) such that it
CONF #: 1140-27973 Added		SHALL contain exactly one [1..1] participantRole (CONF:1140-27973).
CONF #: 1140-27974 Added		This participantRole SHALL contain exactly one [1..1] playingEntity (CONF:1140-27974).
CONF #: 1140-27975 Added		This playingEntity SHALL contain exactly one [1..1] code (CONF:1140-27975).
CONF #: 1140-27976 Added		SHALL contain exactly one [1..1] @typeCode="CSM" Consumable (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-27976).
CONF #: 1140-27977 Added		This participantRole SHALL contain exactly one [1..1] @classCode="MANU" Manufactured product (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-27977).
CONF #: 1140-27978 Added		This playingEntity SHALL contain exactly one [1..1] @classCode="MMAT" Manufactured material (CodeSystem: EntityClass urn:oid:2.16.840.1.113883.5.41) (CONF:1140-27978).
CONF #: 1140-27979 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27979).
CONF #: 1140-28082 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28082).
CONF #: 67-14140 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	code (CONF:67-14140).	
CONF #: 67-14141 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-14141).	
CONF #: 67-14142 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-14142).	
CONF #: 67-14143 Removed	SHALL contain exactly one [1..1] participant (CONF:67-14143).	
CONF #: 67-14144 Removed	This participant SHALL contain exactly one [1..1] @typeCode="CSM" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:67-14144).	
CONF #: 67-14145 Removed	This participant SHALL contain exactly one [1..1] participantRole (CONF:67-14145).	
CONF #: 67-14146 Removed	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC) (CONF:67-14146).	
CONF #: 67-14147 Removed	This participantRole SHALL contain exactly one [1..1] playingEntity (CONF:67-14147).	
CONF #: 67-14148 Removed	This playingEntity SHALL contain exactly one [1..1] code (CONF:67-14148).	
CONF #: 67-14151 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-14151).	
CONF #: 67-14154 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-14154).	
CONF #: 67-14158 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85) (CONF:67-14158).	
CONF #: 67-14164 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-14164).	
CONF #: 1140-14136 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)

Change	Old	New
CONF #: 1140-14137 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-14150 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-14153 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-14160 Modified	This value SHALL contain exactly one [1..1] @code="416098002" Drug allergy (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This value SHALL contain exactly one [1..1] @code="416098002" Drug allergy (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96)

11.49 Medication Dispensed (V2)

Medication Dispensed (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.45:2014-12-01)

Change	Old	New
Name	Medication Dispensed	Medication Dispensed (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.45	urn:hl7ii:2.16.840.1.113883.10.20.24.3.45:2014-12-01
Description	This template represents that a medication prescription has been filled by a pharmacy and the medication has been provided to the patient or patient proxy. In the ambulatory setting, medications are primarily taken directly by patients and not directly observed. Hence, dispensed is the closest health provider documentation of medication compliance. In settings where patients attest to taking medications in electronic format (perhaps a Personal Health Record), patient attestation of "medication taken" may be available. A time/date stamp is required and actStatus is constrained to "completed".	This template represents the QDM datatype: Medication, Dispensed. This datatype represents that a medication prescription has been filled by a pharmacy and the medication has been provided to the patient or patient proxy. In the ambulatory setting, medications are primarily taken directly by patients and not directly observed. Hence, dispensed is the closest health provider documentation of medication compliance. In settings where patients attest to taking medications in electronic format (perhaps a Personal Health Record), patient attestation of "medication taken" may be available. A time/date stamp is required and actStatus is constrained to "completed".
Implied Template	Medication Dispense (urn:oid:2.16.840.1.113883.10.20.22.4.18)	Medication Dispense (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.18:2014-06-09)
CONF #: 1140-27265 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27265).
CONF #: 1140-27266 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27266).
CONF #: 1140-26555 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-26555).
CONF #: 1140-27528 Added		SHALL contain exactly one [1..1] @classCode="SPLY" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27528).
CONF #: 1140-27529 Added		SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem:

Change	Old	New
		ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27529).
CONF #: 1140-28022 Added		QDM attribute: Route MAY contain zero or one [0..1] entryRelationship (CONF:1140- 28022) such that it
CONF #: 1140-28023 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28023).
CONF #: 1140-28224 Added		SHALL contain exactly one [1..1] substanceAdministration (CONF:1140-28224).
CONF #: 1140-28225 Added		This substanceAdministration SHALL contain exactly one [1..1] routeCode (CONF:1140-28225).
CONF #: 1140-28226 Added		This substanceAdministration SHALL contain exactly one [1..1] @classCode="SBADM" Substance Administration (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28226).
CONF #: 1140-28227 Added		This substanceAdministration SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28227).
CONF #: 1140-28228 Added		This routeCode SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-28228).
CONF #: 1140-28229 Added		This substanceAdministration SHALL contain exactly one [1..1] consumable (CONF:1140-28229).
CONF #: 1140-28230 Added		This consumable SHALL contain exactly one [1..1] manufacturedProduct (CONF:1140-28230).
CONF #: 1140-28231 Added		This manufacturedProduct SHALL contain exactly one [1..1] manufacturedMaterial (CONF:1140-28231).
CONF #: 1140-28232 Added		This manufacturedMaterial SHALL contain exactly one [1..1] @nullFlavor="NA" (CodeSystem: HL7NullFlavor urn:oid:2.16.840.1.113883.5.1008)

Change	Old	New
		(CONF:1140-28232).
CONF #: 67-13861 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-13861).	
CONF #: 67-13864 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-13864).	
CONF #: 1140-13860 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13863 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.50 Medication Intolerance (V2)

Medication Intolerance (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.46:2014-12-01)

Change	Old	New
Name	Medication Intolerance	Medication Intolerance (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.46	urn:hl7ii:2.16.840.1.113883.10.20.24.3.46:2014-12-01
Description	<p>This clinical statement template represents medication intolerance.</p> <p>Medication intolerance is a reaction in specific patients representing a low threshold to the normal pharmacological action of a drug. Intolerance is generally based on patient report and perception of his or her ability to tolerate proper administration of a medication. Medication intolerance is distinct from medication allergy and medication adverse effects.</p>	<p>This template represents the QDM datatypes: Medication, Intolerance and Substance, Intolerance.</p> <p>This datatype represents an intolerance to a medication. Medication intolerance is a reaction in specific patients representing a low threshold to the normal pharmacological action of a drug. Intolerance is generally based on patient report and perception of his or her ability to tolerate proper administration of a medication. Medication intolerance is distinct from medication allergy and medication adverse effects.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Allergy - Intolerance Observation (urn:oid:2.16.840.1.113883.10.20.	Allergy - Intolerance Observation (V2)

Change	Old	New
	22.4.7)	(urn:hl7ii:2.16.840.1.113883.10.20.22.4.7:2014-06-09)
CONF #: 1140-27231 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27231).
CONF #: 1140-27232 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27232).
CONF #: 1140-27128 Added		SHALL contain exactly one [1..1] Reaction (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01) (CONF:1140-27128).
CONF #: 1140-27418 Added		SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.46" (CONF:1140-27418).
CONF #: 1140-27419 Added		This value SHALL contain exactly one [1..1] @code="59037007" Drug intolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:1140-27419).
CONF #: 1140-27032 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27032).
CONF #: 1140-27980 Added		SHALL contain exactly one [1..1] participant (CONF:1140-27980) such that it
CONF #: 1140-27981 Added		SHALL contain exactly one [1..1] participantRole (CONF:1140-27981).
CONF #: 1140-27982 Added		This participantRole SHALL contain exactly one [1..1] playingEntity (CONF:1140-27982).
CONF #: 1140-27983 Added		This playingEntity SHALL contain exactly one [1..1] code (CONF:1140-27983).
CONF #: 1140-27984 Added		SHALL contain exactly one [1..1] @typeCode="CSM" Consumable (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-27984).
CONF #: 1140-27985 Added		This participantRole SHALL contain exactly one [1..1] @classCode="MANU" Manufactured product (CodeSystem: RoleClass

Change	Old	New
		urn:oid:2.16.840.1.113883.5.110) (CONF:1140-27985).
CONF #: 1140-27986 Added		This playingEntity SHALL contain exactly one [1..1] @classCode="MMAT" Manufactured material (CodeSystem: EntityClass urn:oid:2.16.840.1.113883.5.41) (CONF:1140-27986).
CONF #: 1140-27987 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27987).
CONF #: 1140-28083 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28083).
CONF #: 67-14089 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.46" (CONF:67-14089).	
CONF #: 67-14090 Removed	SHALL contain exactly one [1..1] code (CONF:67-14090).	
CONF #: 67-14091 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-14091).	
CONF #: 67-14092 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-14092).	
CONF #: 67-14094 Removed	SHALL contain exactly one [1..1] participant (CONF:67-14094).	
CONF #: 67-14095 Removed	This participant SHALL contain exactly one [1..1] @typeCode="CSM" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:67-14095).	
CONF #: 67-14096 Removed	This participant SHALL contain exactly one [1..1] participantRole (CONF:67-14096).	
CONF #: 67-14097 Removed	This participantRole SHALL contain exactly one [1..1] @classCode="MANU" (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC) (CONF:67-14097).	
CONF #: 67-14098 Removed	This participantRole SHALL contain exactly one [1..1] playingEntity (CONF:67-14098).	
CONF #: 67-14099 Removed	This playingEntity SHALL contain exactly one [1..1] code (CONF:67-14099).	
CONF #: 67-14102 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier:	

Change	Old	New
	urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-14102).	
CONF #: 67-14105 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-14105).	
CONF #: 67-14109 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.85) (CONF:67-14109).	
CONF #: 67-14163 Removed	This value SHALL contain exactly one [1..1] @code="59037007" Drug intolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC) (CONF:67-14163).	
CONF #: 1140-14086 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-14087 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-14101 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-14104 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.51 Medication Order (V2)

Medication Order (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.47:2014-12-01)

Change	Old	New
Name	Medication Order	Medication Order (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.47	urn:hl7ii:2.16.840.1.113883.10.20.24.3.47:2014-12-01
Description	<p>This template represents a request by a clinician or appropriately licensed care provider to a pharmacy to provide medication to a patient. The request is in the form of prescriptions or other medication orders with detail adequate for correct filling and administration. A time/ date stamp is required. This template is broader than a pharmacy supply order and may include a supply order.</p> <p>MoodCode is constrained to "RQO".</p>	<p>This template represents the QDM datatypes: Medication, Order and Substance, Order.</p> <p>This datatype represents a request by a clinician or appropriately licensed care provider to a pharmacy to provide medication to a patient. The request is in the form of prescriptions or other medication orders with detail adequate for correct filling and administration. This template is broader than a pharmacy supply order and may include a supply order.</p> <p>The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. QDM Attribute: Signed Datetime is the time the order is signed and is represented by author/time/low. QDM Attribute: Active Datetime is the time the order becomes active. In most cases, this is the same as Signed Datetime, but in advance orders it may be after the Signed Datetime. The time the activity is intended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is</p>

Change	Old	New
		<p>available for use in any template.</p> <p>Note: There are future plans to better align the medication templates and value sets to meet the needs of substances that are not medications. Suggestions include renaming from "medication" to "substance administration" and changing value set bindings to broader grouping value sets that include RxNorm along with substances from other code systems.</p>
Implied Template	Plan of Care Activity Substance Administration (urn:oid:2.16.840.1.113883.10.20.22.4.42)	Planned Medication Activity (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09)
CONF #: 1140-27197 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27197).
CONF #: 1140-27198 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27198).
CONF #: 1140-27089 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27089).
CONF #: 1140-27377 Added		SHALL contain exactly one [1..1] @classCode="SBADM" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27377).
CONF #: 1140-27734 Added		<p>If the code used for QDM Attribute: Route does not exist in the value set Medication Route FDA (2.16.840.1.113883.3.88.12.3221.8.7) then set routeCode/@nullFlavor="OTH", routeCode/@codeSystem="2.16.840.1.113883.3.26.1.1" and use translation for the code.</p> <p>MAY contain zero or one [0..1] routeCode (CONF:1140-27734).</p>
CONF #: 1140-27735 Added		The routeCode, if present, MAY contain zero or more [0..*] translation (CONF:1140-27735).
CONF #: 1140-27736 Added		The routeCode, if present, SHOULD contain zero or one [0..1]

Change	Old	New
		@sdtc:valueSet (CONF:1140-27736).
CONF #: 1140-27737 Added		The translation, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27737).
CONF #: 1140-27738 Added		MAY contain zero or one [0..1] administrationUnitCode (CONF:1140-27738).
CONF #: 1140-27739 Added		The administrationUnitCode, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27739).
CONF #: 1140-27740 Added		SHALL contain exactly one [1..1] effectiveTime (CONF:1140-27740) such that it
CONF #: 1140-27741 Added		SHALL contain exactly one [1..1] effectiveTime (CONF:1140-27741) such that it
CONF #: 1140-27742 Added		SHALL contain exactly one [1..1] low (CONF:1140-27742).
CONF #: 1140-27743 Added		MAY contain zero or one [0..1] high (CONF:1140-27743).
CONF #: 1140-27744 Added		SHALL contain exactly one [1..1] period (CONF:1140-27744).
CONF #: 1140-27745 Added		author/time/low represents the time the order is signed and author/time/high represents the time the order becomes active. SHALL contain exactly one [1..1] author (CONF:1140-27745).
CONF #: 1140-28008 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-28008) such that it
CONF #: 1140-28009 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CONF:1140-28009).
CONF #: 1140-28010 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-28010).
CONF #: 1140-28084 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28084).
CONF #: 67-12591 Removed	MAY contain zero or one [0..1] code (CONF:67-12591).	
CONF #: 67-12592 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-12592).	
CONF #: 67-12593 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	effectiveTime (CONF:67-12593) such that it	
CONF #: 67-12600 Removed	MAY contain zero or one [0..1] routeCode, which SHALL be selected from ValueSet Medication Route FDA urn:oid:2.16.840.1.113883.3.88.12.3221.8.7 DYNAMIC (CONF:67-12600).	
CONF #: 67-12601 Removed	MAY contain zero or one [0..1] approachSiteCode, where the code SHALL be selected from ValueSet Body Site urn:oid:2.16.840.1.113883.3.88.12.3221.8.9 DYNAMIC (CONF:67-12601).	
CONF #: 67-12602 Removed	SHOULD contain zero or one [0..1] doseQuantity (CONF:67-12602).	
CONF #: 67-12603 Removed	The doseQuantity, if present, SHOULD contain zero or one [0..1] @unit, which SHALL be selected from ValueSet UnitsOfMeasureCaseSensitive urn:oid:2.16.840.1.113883.1.11.12.839 DYNAMIC (CONF:67-12603).	
CONF #: 67-12606 Removed	MAY contain zero or one [0..1] rateQuantity (CONF:67-12606).	
CONF #: 67-12607 Removed	The rateQuantity, if present, SHALL contain exactly one [1..1] @unit, which SHALL be selected from ValueSet UnitsOfMeasureCaseSensitive urn:oid:2.16.840.1.113883.1.11.12.839 DYNAMIC (CONF:67-12607).	
CONF #: 67-12608 Removed	MAY contain zero or one [0..1] maxDoseQuantity (CONF:67-12608).	
CONF #: 67-12609 Removed	MAY contain zero or one [0..1] administrationUnitCode, which SHALL be selected from ValueSet Medication Product Form Value Set urn:oid:2.16.840.1.113883.3.88.12.3221.8.11 DYNAMIC (CONF:67-12609).	
CONF #: 67-12610 Removed	SHALL contain exactly one [1..1] consumable (CONF:67-12610).	
CONF #: 67-12612 Removed	MAY contain zero or one [0..1] performer (CONF:67-12612).	
CONF #: 67-12617 Removed	MAY contain zero or more [0..*] entryRelationship (CONF:67-12617) such that it	

Change	Old	New
CONF #: 67-12618 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12618).	
CONF #: 67-12620 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-12620) such that it	
CONF #: 67-12621 Removed	SHALL contain exactly one [1..1] @typeCode="SUBJ" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12621).	
CONF #: 67-12623 Removed	SHALL contain exactly one [1..1] @inversionInd="true" True (CONF:67-12623).	
CONF #: 67-12636 Removed	MAY contain zero or one [0..1] repeatNumber (CONF:67-12636).	
CONF #: 67-12637 Removed	A. In "INT" (intent) mood, the repeatNumber defines the number of allowed administrations. For example, a repeatNumber of "3" means that the substance can be administered up to 3 times (CONF:67-12637).	
CONF #: 67-12638 Removed	In "EVN" (event) mood, the repeatNumber is the number of occurrences. For example, a repeatNumber of "3" in a substance administration event means that the current administration is the 3rd in a series (CONF:67-12638).	
CONF #: 67-12641 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-12641).	
CONF #: 67-13818 Removed	SHALL contain exactly one [1..1] low (CONF:67-13818).	
CONF #: 67-13819 Removed	SHALL contain exactly one [1..1] high (CONF:67-13819).	
CONF #: 67-13840 Removed	SHALL contain exactly one [1..1] Indication (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.19) (CONF:67-13840).	
CONF #: 67-13841 Removed	SHALL contain exactly one [1..1] Instructions (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.20) (CONF:67-13841).	
CONF #: 67-13845 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-13845).	
CONF #: 67-13848 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-13848).	
CONF #: 67-13849 Removed	SHOULD contain zero or one [0..1] effectiveTime (CONF:67-13849).	
CONF #: 67-26932 Removed	This consumable SHALL contain exactly one [1..1] Medication Information (identifier: urn:oid:2.16.840.1.113883.10.20.24.4.23) (CONF:67-26932).	
CONF #: 1140-12626 Modified	SHALL contain exactly one [1..1] @typeCode="COMP" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="COMP" Component of (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12639 Modified	SHALL contain exactly one [1..1] @moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13842 Modified	SHALL contain exactly one [1..1] Medication Supply Request (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.99)	SHALL contain exactly one [1..1] Medication Supply Request (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.99:2015-04-05)
CONF #: 1140-13844 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13847 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.52 Medication Supply Request (V2)

Medication Supply Request (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.99:2015-04-05)

Change	Old	New
Name	Medication Supply Request	Medication Supply Request (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.99	urn:hl7ii:2.16.840.1.113883.10.20.24.3.99:2015-04-05
Description	This template represents a request to a pharmacy to supply a medication. A date/time stamp is required. MoodCode is constrained to "RQO" and actStatus is constrained to "new".	This template represents a request to a pharmacy to supply a medication. An effectiveTime is required.
Implied Template	Plan of Care Activity Supply (urn:oid:2.16.840.1.113883.10.20.22.4.43)	Planned Supply (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.43:2014-06-09)
CONF #: 1140-28373 Added		SHALL contain exactly one [1..1] @classCode="SPLY" Supply (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28373).
CONF #: 1140-28374 Added		SHALL contain exactly one [1..1] @extension="2014-12-09" (CONF:1140-28374).
CONF #: 67-13824 Removed	MAY contain zero or one [0..1] product (CONF:67-13824).	
CONF #: 67-13825 Removed	The product, if present, SHALL contain exactly one [1..1] Medication Information (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.23) (CONF:67-13825).	
CONF #: 67-13827 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-13827).	
CONF #: 67-13828 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13828).	
CONF #: 67-13830 Removed	MAY contain zero or one [0..1] repeatNumber (CONF:67-13830).	
CONF #: 67-13832 Removed	MAY contain zero or one [0..1] quantity (CONF:67-13832).	
CONF #: 1140-13820 Modified	SHALL contain exactly one [1..1] @moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)

11.53 Patient Care Experience (V2)

Patient Care Experience (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.48:2014-12-01)

Change	Old	New
Name	Patient Care Experience	Patient Care Experience (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.48	urn:hl7ii:2.16.840.1.113883.10.20.24.3.48:2014-12-01
Description	This template represents information collected from patients about their perception of the care they received.	<p>This template represents the QDM Datatype: Patient Care Experience.</p> <p>Patient Care Experience describes information collected from patients about their perceptions of the care they received.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27288 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27288).
CONF #: 1140-27289 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27289).
CONF #: 1140-27290 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27290).
CONF #: 1140-27553 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27553).
CONF #: 1140-27554 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27554).
CONF #: 1140-27555 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27555).
CONF #: 1140-27647 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27647).

Change	Old	New
CONF #: 1140-28085 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28085).
CONF #: 67-12475 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12475).	
CONF #: 67-12478 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12478).	
CONF #: 1140-12464 Modified	SHALL contain exactly one [1..1] @classCode="OBS" observation, which SHALL be selected from CodeSystem HL7ActClass (urn:oid:2.16.840.1.113883.5.6) STATIC	SHALL contain exactly one [1..1] @classCode="OBS" observation, which SHALL be selected from CodeSystem HL7ActClass (urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-12465 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" event, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) STATIC	SHALL contain exactly one [1..1] @moodCode="EVN" event, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12471 Modified	SHALL contain exactly one [1..1] statusCode="completed", which SHALL be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14) STATIC	SHALL contain exactly one [1..1] statusCode="completed", which SHALL be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-12474 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12477 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-13037 Modified	This code SHALL contain exactly one [1..1] @code="406193000" patient satisfaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="77218-6" Patient satisfaction with healthcare delivery

11.54 Patient Characteristic Clinical Trial Participant (V2)

Patient Characteristic Clinical Trial Participant (V2)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.51:2014-12-01)

Change	Old	New
Name	Patient Characteristic Clinical Trial Participant	Patient Characteristic Clinical Trial Participant (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.51	urn:hl7ii:2.16.840.1.113883.10.20.24.3.51:2014-12-01
Description	This template represents that the patient is a clinical trial participant. MoodCode is constrained to "EVN" and statusCode is constrained to "active" and the observation/code is constrained to="110465008" clinical trial (CodeSystem: SNOMED-CT 2.16.840.1.113883.6.96).	<p>This template represents the QDM datatype: Patient Characteristic, Clinical Trial Participant.</p> <p>This datatype indicates that the patient is a clinical trial participant. MoodCode is constrained to "EVN" and statusCode is constrained to "active".</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27026 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27026).
CONF #: 1140-27648 Added		This value SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27648).
CONF #: 1140-27668 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27668).
CONF #: 1140-27669 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27669).
CONF #: 1140-28086 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28086).
CONF #: 1140-28130 Added		This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion (CONF:1140-28130).
CONF #: 1140-28131 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1140-28131).

Change	Old	New
CONF #: 67-16713 Removed	Value/code MAY ="428024001" clinical trial participant (CodeSystem: SNOMED-CT 2.16.840.1.113883.6.96) (CONF:67-16713).	
CONF #: 1140-12526 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" event, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) STATIC	SHALL contain exactly one [1..1] @moodCode="EVN" event, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12532 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ActRelationshipType (urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12533 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.88:2014-12-01)
CONF #: 1140-13041 Modified	SHALL contain exactly one [1..1] code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC)	SHALL contain exactly one [1..1] code
CONF #: 1140-13042 Modified	SHALL contain exactly one [1..1] statusCode="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	SHALL contain exactly one [1..1] statusCode="active" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-16711 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)

11.55 Patient Characteristic Estimated Date of Conception (RETIRED)

Patient Characteristic Estimated Date of Conception (RETIRED)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.102:2014-12-01)

Change	Old	New
Name	Patient Characteristic Estimated Date of Conception	Patient Characteristic Estimated Date of Conception (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.102	urn:hl7ii:2.16.840.1.113883.10.20.24.3.102:2014-12-01
Description	This clinical statement represents the probable date a person became pregnant.	<p>This clinical statement represents the probable date a person became pregnant.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Patient Characteristic, Estimated Date of Conception has been removed. Use Patient Characteristic Observation Assertion.</p>
CONF #: 67-16425 Removed	SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC) (CONF:67-16425).	
CONF #: 67-16426 Removed	SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:67-16426).	
CONF #: 67-16427 Removed	SHALL contain exactly one [1..1] code="20120615" Estimated Date of Conception (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC) (CONF:67-16427).	
CONF #: 67-16428 Removed	SHALL contain exactly one [1..1] statusCode="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-16428).	
CONF #: 67-16429 Removed	SHALL contain exactly one [1..1] value with @xsi:type="TS" (CONF:67-16429).	
CONF #: 67-16508 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-16508) such that it	
CONF #: 67-16509 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.2	

Change	Old	New
	4.3.102" (CONF:67-16509).	
CONF #: 67-26997 Removed	SHALL contain at least one [1..*] id (CONF:67-26997).	

11.56 Patient Characteristic Expired (V2)

Patient Characteristic Expired (V2)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.54:2014-12-01)

Change	Old	New
Name	Patient Characteristic Expired	Patient Characteristic Expired (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.54	urn:hl7ii:2.16.840.1.113883.10.20.24.3.54:2014-12-01
Description	This clinical statement represents the observation that a patient has expired. A date/time stamp is required.	<p>This template represents the QDM datatype: Patient Characteristic, Expired.</p> <p>This datatype indicates that a patient has expired. A date/time stamp is required.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Deceased Observation (urn:oid:2.16.840.1.113883.10.20.22.4.79)	Deceased Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.79:2014-06-09)
CONF #: 1140-27014 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27014).
CONF #: 1140-28087 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28087).
CONF #: 1140-28088 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28088).
CONF #: 1140-28089 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28089).

11.57 Patient Characteristic Gestational Age (RETIRED)

Patient Characteristic Gestational Age (RETIRED)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.101:2014-12-01)

Change	Old	New
Name	Patient Characteristic Gestational Age	Patient Characteristic Gestational Age (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.101	urn:hl7ii:2.16.840.1.113883.10.20.24.3.101:2014-12-01
Description	This clinical statement represents the length of the gestation of a pregnancy. Human gestation is commonly stated in weeks. If more granular measurement is needed the length can be stated in days. For example, 30 weeks and 2 days would be represented as 212 days.	<p>This clinical statement represents the length of the gestation of a pregnancy. Human gestation is commonly stated in weeks. If more granular measurement is needed the length can be stated in days. For example, 30 weeks and 2 days would be represented as 212 days.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Patient Characteristic, Gestational Age has been removed. Use Patient Characteristic Observation Assertion.</p>
CONF #: 67-16523 Removed	SHALL contain exactly one [1..1] @classCode="OBS" Observation (CONF:67-16523).	
CONF #: 67-16524 Removed	SHALL contain exactly one [1..1] @moodCode="EVN" event (CONF:67-16524).	
CONF #: 67-16525 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-16525) such that it	
CONF #: 67-16526 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.101" (CONF:67-16526).	
CONF #: 67-16527 Removed	SHALL contain exactly one [1..1] id (CONF:67-16527).	
CONF #: 67-16528 Removed	SHALL contain exactly one [1..1] code (CONF:67-16528).	
CONF #: 67-16529 Removed	This code SHALL contain exactly one [1..1] @code="57036006" Length of gestation (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC) (CONF:67-16529).	
CONF #: 67-16530 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	statusCode="completed" Completed (CONF:67-16530).	
CONF #: 67-16531 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-16531).	
CONF #: 67-16532 Removed	SHALL contain exactly one [1..1] value with @xsi:type="PQ" (CONF:67-16532).	
CONF #: 67-16534 Removed	This value SHALL contain exactly one [1..1] @unit, which SHALL be selected from ValueSet DayWkPQ_UCUM urn:oid:2.16.840.1.113883.11.20.9.40 DYNAMIC (CONF:67-16534).	

11.58 Patient Characteristic Observation Assertion (V2)

Patient Characteristic Observation Assertion (V2)

(urn:hl7ii:2.16.840.1.113883.10.20.24.3.103:2014-12-01)

Change	Old	New
Name	Patient Characteristic Observation Assertion	Patient Characteristic Observation Assertion (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.103	urn:hl7ii:2.16.840.1.113883.10.20.24.3.103:2014-12-01
Description	<p>This clinical statement is a pattern that can be used for any simple assertion observation. A value/code binding, value/value set binding, or sdwg:valueSet association in the instance is required to provide meaning.</p>	<p>This template represents the QDM datatype: Patient Characteristic.</p> <p>Patient Characteristic represents specific factors about a patient. Included are demographics, behavioral factors, social or cultural factors, available resources, and preferences. Behaviors reference responses or actions that affect (either positively or negatively) health or healthcare. Included in this category are mental health issues, adherence issues unrelated to other factors or resources, coping ability, grief issues, and substance use/abuse. Social/cultural factors are characteristics of an individual related to family/caregiver support, education, and literacy (including health literacy), primary language, cultural beliefs (including health beliefs), persistent life stressors, spiritual and religious beliefs, immigration status, and history of abuse or neglect. Resources are means available to a patient to meet health and healthcare needs, which might include caregiver support, insurance coverage, financial resources, and community resources to which the patient is already connected and from which the patient is receiving benefit. Preferences are choices made by patients and their caregivers relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals) and the sharing and disclosure of their health information.</p> <p>This is a pattern that can be used for any simple assertion</p>

Change	Old	New
		<p>observation of a patient characteristic that is not represented by one of the specific Patient Characteristics (Birth Date, Clinical Trial Participant, Ethnicity, Expired, Payer, Race or Sex).</p> <p>This template is to be used to represent the retired QDM Datatypes, Patient Characteristic, Gestational Age, Patient Characteristic Estimated Date of Conception, Patient Characteristic, ECOG Performance Status Poor and Patient Characteristic, Tobacco User and Non-User.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27670 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27670).
CONF #: 1140-27671 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27671).
CONF #: 1140-27672 Added		This value SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27672).
CONF #: 1140-27781 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27781).
CONF #: 1140-28090 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28090).
CONF #: 1140-28135 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.5.4" (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4) (CONF:1140-28135).
CONF #: 1140-16537 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-16545 Modified	This code SHALL contain exactly one [1..1] @code="ASSERTION"	This code SHALL contain exactly one [1..1] @code="ASSERTION"

Change	Old	New
	(CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC)	

11.59 Patient Preference (V2)

Patient Preference (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01)

Change	Old	New
Name	Patient Preference	Patient Preference (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.83	urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01
Description	Preferences are choices made by patients relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals) and the sharing and disclosure of their health information.	<p>This template represents the QDM attribute: Patient Preference.</p> <p>Preferences are choices made by patients relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals) and the sharing and disclosure of their health information.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27164 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27164).
CONF #: 1140-27649 Added		This value SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27649).
CONF #: 1140-28091 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28091).
CONF #: 1140-11118 Modified	SHALL contain exactly one [1..1] @classCode="OBS", which SHALL be selected from CodeSystem HL7ActClass (urn:oid:2.16.840.1.113883.5.6) STATIC	SHALL contain exactly one [1..1] @classCode="OBS", which SHALL be selected from CodeSystem HL7ActClass (urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11119 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11121 Modified	This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.83"	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.83"
CONF #: 1140-11124 Modified	This code SHALL contain exactly one [1..1] @code="PAT" Patient Request	This code SHALL contain exactly one [1..1] @code="77302-8" Patient preference for care action

Change	Old	New
CONF #: 1140-27006 Modified	This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.5.8" (CodeSystem: ActReason urn:oid:2.16.840.1.113883.5.8)	This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1)

11.60Physical Exam Finding (RETIRED)

Physical Exam Finding (RETIRED) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.57:2014-12-01)

Change	Old	New
Name	Physical Exam Finding	Physical Exam Finding (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.57	urn:hl7ii:2.16.840.1.113883.10.20.24.3.57:2014-12-01
Description	This template describes the result or finding of a physical exam. A time/date stamp is required.	<p>This template represents the QDM datatype: Physical Exam, Finding.</p> <p>This datatype describes the result or finding of a physical exam. A time/date stamp is required.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Physical Exam, Finding has been removed.</p>
Implied Template	Result Observation (urn:oid:2.16.840.1.113883.10.20.22.4.2)	
CONF #: 67-12705 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-12705) such that it	
CONF #: 67-12706 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.57" (CONF:67-12706).	
CONF #: 67-12716 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-12716) such that it	
CONF #: 67-12717 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12717).	
CONF #: 67-12718 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12718).	
CONF #: 67-12719 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-12719) such that it	
CONF #: 67-12720 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12720).	

Change	Old	New
CONF #: 67-12721 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-12721).	
CONF #: 67-12722 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67-12722) such that it	
CONF #: 67-12723 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12723).	
CONF #: 67-12724 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88) (CONF:67-12724).	
CONF #: 67-16699 Removed	SHALL contain exactly one [1..1] value (CONF:67-16699).	
CONF #: 67-16700 Removed	If xsi:type=PQ, then @units shall be drawn from Unified Code for Units of Measure (UCUM) 2.16.840.1.113883.6.8 code system. Additional constraint is dependent on criteria in the corresponding eMeasure (CONF:67-16700).	

11.61 Physical Exam Order (V2)

Physical Exam Order (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.58:2014-12-01)

Change	Old	New
Name	Physical Exam Order	Physical Exam Order (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.58	urn:hl7ii:2.16.840.1.113883.10.20.24.3.58:2014-12-01
Description	<p>This template represents a request by a physician or appropriately licensed care provider to order a physical exam for the patient. A time/date stamp is required. MoodCode is constrained to "RQO". ActStatus is constrained to "new" and author is required to represent the ordering clinician.</p>	<p>This template represents the QDM datatype: Physical Exam, Order.</p> <p>This datatype represents a request by a physician or appropriately licensed care provider to order a physical exam for the patient.</p> <p>The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.44)	Planned Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)
CONF #: 1140-27205 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27205).
CONF #: 1140-27345 Added		author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier:

Change	Old	New
		urn:oid:2.16.840.1.113883.10.20.24.3.84.119) (CONF:1140-27345).
CONF #: 1140-27206 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27206).
CONF #: 1140-27078 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27078).
CONF #: 1140-27550 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27550).
CONF #: 1140-27650 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27650).
CONF #: 1140-28092 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28092).
CONF #: 67-12690 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-12690).	
CONF #: 67-12691 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-12691).	
CONF #: 67-12692 Removed	MAY contain zero or more [0..*] methodCode (CONF:67-12692).	
CONF #: 67-12693 Removed	SHALL contain exactly one [1..1] author (CONF:67-12693) such that it	
CONF #: 67-12694 Removed	SHALL contain exactly one [1..1] time (CONF:67-12694).	
CONF #: 67-12697 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12697).	
CONF #: 67-12700 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-12700).	
CONF #: 67-12704 Removed	MAY contain zero or more [0..*] targetSiteCode (CONF:67-12704).	
CONF #: 1140-12685 Modified	SHALL contain exactly one [1..1] @moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)

Change	Old	New
CONF #: 1140-12696 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12699 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12702 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12703 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.88:2014-12-01)
CONF #: 1140-13242 Modified	This code SHALL contain exactly one [1..1] @code="5880005" physical examination (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="29545-1" physical examination (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1)
CONF #: 1140-13254 Modified	SHALL contain exactly one [1..1] value	SHALL contain exactly one [1..1] value with @xsi:type="CD"

11.62 Physical Exam Performed (V2)

Physical Exam Performed (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.59:2014-12-01)

Change	Old	New
Name	Physical Exam Performed	Physical Exam Performed (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.59	urn:hl7ii:2.16.840.1.113883.10.20.24.3.59:2014-12-01
Description	A physical exam has been completed. A time/date stamp is required, moodCode has been constrained to "EVN" and statusCode has been constrained to "completed".	<p>This template represents the QDM datatype: Physical Exam, Performed.</p> <p>A physical exam has been completed. A time/date stamp is required, moodCode has been constrained to "EVN" and statusCode has been constrained to "completed". If there is a result, it is recorded in value.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Procedure Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.13)	Procedure Activity Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.13:2014-06-09)
CONF #: 1140-27174 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27174).
CONF #: 1140-27134 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27134).
CONF #: 1140-27175 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27175).
CONF #: 1140-27135 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27135).
CONF #: 1140-27559 Added		SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)

Change	Old	New
		(CONF:1140-27559).
CONF #: 1140-27651 Added		SHALL contain exactly one [1..1] code (CONF:1140-27651).
CONF #: 1140-27652 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27652).
CONF #: 1140-28093 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28093).
CONF #: 67-12655 Removed	MAY contain zero or one [0..1] targetSiteCode (CONF:67-12655).	
CONF #: 67-12658 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-12658).	
CONF #: 67-12661 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12661).	
CONF #: 67-12664 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12664).	
CONF #: 1140-12643 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12650 Modified	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-12657 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12660 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12663 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.63Physical Exam Recommended (V2)

Physical Exam Recommended (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.60:2014-12-01)

Change	Old	New
Name	Physical Exam Recommended	Physical Exam Recommended (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.60	urn:hl7ii:2.16.840.1.113883.10.20.24.3.60:2014-12-01
Description	<p>This template represents a recommendation by a physician or appropriately licensed care provider for a physical exam to be performed on the patient. A time/date stamp is required. MoodCode is constrained to "INT". ActStatus is constrained to "new" and author is required to represent the ordering clinician</p>	<p>This template represents the QDM datatype: Physical Exam, Recommended.</p> <p>This datatype represents a recommendation by a physician or appropriately licensed care provider for a physical exam to be performed on the patient.</p> <p>The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Observation (urn:oid:2.16.840.1.113883.10.20.22.4.44)	Planned Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.44:2014-06-09)
CONF #: 1140-27203 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27203).
CONF #: 1140-27351 Added		author/time/low represents the time the recommendation is made and author/time/high represents

Change	Old	New
		the time the recommendation placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27351).
CONF #: 1140-27204 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27204).
CONF #: 1140-27082 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27082).
CONF #: 1140-27556 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27556).
CONF #: 1140-27653 Added		This value SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27653).
CONF #: 1140-28094 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28094).
CONF #: 1140-28132 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28132).
CONF #: 67-12670 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-12670).	
CONF #: 67-12671 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-12671).	
CONF #: 67-12672 Removed	MAY contain zero or one [0..1] methodCode (CONF:67-12672).	
CONF #: 67-12675 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.3.83) (CONF:67-12675).	
CONF #: 67-12678 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.3.84) (CONF:67-12678).	
CONF #: 67-12682 Removed	SHALL contain exactly one [1..1] author (CONF:67-12682).	
CONF #: 67-12683 Removed	This author SHALL contain exactly	

Change	Old	New
	one [1..1] time (CONF:67-12683).	
CONF #: 67-12684 Removed	MAY contain zero or one [0..1] targetSiteCode (CONF:67-12684).	
CONF #: 1140-12665 Modified	SHALL contain exactly one [1..1] @moodCode="INT" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12674 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12677 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12680 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12681 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
CONF #: 1140-13274 Modified	This code SHALL contain exactly one [1..1] @code="5880005" physical examination (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="29545-1" physical examination
CONF #: 1140-13275 Modified	SHALL contain exactly one [1..1] value	SHALL contain exactly one [1..1] value with @xsi:type="CD"

11.64 Problem Status Active (RETIRED)

Problem Status Active (RETIRED) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.94:2015-04-06)

Change	Old	New
Name	Problem Status Active	Problem Status Active (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.94	urn:hl7ii:2.16.840.1.113883.10.20.24.3.94:2015-04-06
Description	This template records that the indicated problem is active.	<p>This template records that the indicated problem is active.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: Per the explanation in Volume 1 "Determining a Clinical Statement's Status", the status of a problem is determined based on attributes of the Problem Observation.</p>
Implied Template	Problem Status (urn:oid:2.16.840.1.113883.10.20.22.4.6)	
CONF #: 67-12207 Removed	SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:67-12207).	
CONF #: 67-12212 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-12212) such that it	
CONF #: 67-12213 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.94" (CONF:67-12213).	
CONF #: 67-12214 Removed	This value SHALL contain exactly one [1..1] @code="55561003" active (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC) (CONF:67-12214).	

11.65 Problem Status Inactive (RETIRED)

Problem Status Inactive (RETIRED) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.95:2014-12-01)

Change	Old	New
Name	Problem Status Inactive	Problem Status Inactive (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.95	urn:hl7ii:2.16.840.1.113883.10.20.24.3.95:2014-12-01
Description	This template records that the indicated problem is resolved.	<p>This template records that the indicated problem is resolved.</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: Per the explanation in Volume 1 "Determining a Clinical Statement's Status", the status of a problem is determined based on attributes of the Problem Observation.</p>
Implied Template	Problem Status (urn:oid:2.16.840.1.113883.10.20.22.4.6)	
CONF #: 67-12208 Removed	SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:67-12208).	
CONF #: 67-12209 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-12209) such that it	
CONF #: 67-12210 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.95" (CONF:67-12210).	
CONF #: 67-12211 Removed	This value SHALL contain exactly one [1..1] @code="73425007" inactive (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC) (CONF:67-12211).	

11.66 Problem Status Resolved (RETIRED)

Problem Status Resolved (RETIRED) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.96:2014-12-01)

Change	Old	New
Name	Problem Status Resolved	Problem Status Resolved (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.96	urn:hl7ii:2.16.840.1.113883.10.20.24.3.96:2014-12-01
Description	Records that the indicated problem is resolved.	Records that the indicated problem is resolved. THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED. *Reason for retirement*: Per the explanation in Volume 1 "Determining a Clinical Statement's Status", the status of a problem is determined based on attributes of the Problem Observation.
Implied Template	Problem Status (urn:oid:2.16.840.1.113883.10.20.22.4.6)	
CONF #: 67-12215 Removed	SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:67-12215).	
CONF #: 67-12216 Removed	This value SHALL contain exactly one [1..1] @code="413322009" resolved (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC) (CONF:67-12216).	
CONF #: 67-12217 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-12217) such that it	
CONF #: 67-12218 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.96" (CONF:67-12218).	

11.67 Procedure Adverse Event (V2)

Procedure Adverse Event (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.61:2014-12-01)

Change	Old	New
Name	Procedure Adverse Event	Procedure Adverse Event (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.61	urn:hl7ii:2.16.840.1.113883.10.20.24.3.61:2014-12-01
Description	<p>This clinical statement represents an adverse event caused by a procedure.</p> <p>An adverse event is an unexpected or dangerous reaction to procedure. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolonging hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter.</p>	<p>This template represents the QDM datatype: Procedure, Adverse Event.</p> <p>An adverse event is an unexpected or dangerous reaction to a procedure. Serious adverse events are those that are fatal, life-threatening, permanently or significantly disabling, require or prolonging hospitalization, require intervention to prevent permanent impairment or damage, or that require specific treatment, care plan, or encounter.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Act Intolerance or Adverse Event Observation (urn:oid:2.16.840.1.113883.10.20.24.3.104)	Act Intolerance or Adverse Event Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01)
CONF #: 1140-27147 Added		SHALL contain exactly one [1..1] Procedure Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01) (CONF:1140-27147).
CONF #: 1140-27257 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27257).
CONF #: 1140-27258 Added		SHALL contain exactly one [1..1]

Change	Old	New
		Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27258).
CONF #: 1140-27009 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27009).
CONF #: 1140-28095 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28095).
CONF #: 67-11378 Removed	SHALL contain exactly one [1..1] code (CONF:67-11378).	
CONF #: 67-11379 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-11379).	
CONF #: 67-11381 Removed	SHALL contain exactly one [1..1] statusCode="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-11381).	
CONF #: 67-11382 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-11382).	
CONF #: 67-11383 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67-11383).	
CONF #: 67-11384 Removed	This effectiveTime SHOULD contain zero or one [0..1] high (CONF:67-11384).	
CONF #: 67-11388 Removed	SHALL contain exactly one [1..1] Procedure Performed (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.64) (CONF:67-11388).	
CONF #: 67-11396 Removed	SHOULD contain zero or one [0..1] entryRelationship (CONF:67-11396) such that it	
CONF #: 67-11397 Removed	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11397).	
CONF #: 67-11398 Removed	SHALL contain exactly one [1..1] @inversionInd="true" (CONF:67-11398).	
CONF #: 67-11468 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-11468).	
CONF #: 67-11479 Removed	SHALL contain exactly one [1..1] Reaction (identifier:	

Change	Old	New
	urn:oid:2.16.840.1.113883.10.20.24.3.85) (CONF:67-11479).	
CONF #: 67-11605 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-11605).	
CONF #: 1140-11373 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11374 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11386 Modified	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11412 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11415 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16420 Modified	This value SHALL contain exactly one [1..1] @code="281647001" Adverse reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This value SHALL contain exactly one [1..1] @code="281647001" Adverse reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96)

11.68 Procedure Intolerance (V2)

Procedure Intolerance (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.62:2014-12-01)

Change	Old	New
Name	Procedure Intolerance	Procedure Intolerance (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.62	urn:hl7ii:2.16.840.1.113883.10.20.24.3.62:2014-12-01
Description	This clinical statement template represents an intolerance to a procedure generally perceived and reported by the patient. For example, a patient may report that a certain physical therapy procedure causes too much pain to continue complying with the regimen.	<p>This template represents the QDM datatype: Procedure, Intolerance.</p> <p>Procedure Intolerance describes an intolerance to a procedure generally perceived and reported by the patient. For example, a patient may report that a certain physical therapy procedure causes too much pain to continue complying with the regimen.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p> <p>Note: There is work in progress to update the Allergy/Adverse Event Type value set and the value set name, and as such, its members are subject to change.</p>
Implied Template	Act Intolerance or Adverse Event Observation (urn:oid:2.16.840.1.113883.10.20.24.3.104)	Act Intolerance or Adverse Event Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.104:2014-12-01)
CONF #: 1140-27242 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27242).
CONF #: 1140-27243 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27243).
CONF #: 1140-27148 Added		SHALL contain exactly one [1..1] Procedure Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01) (CONF:1140-27148).

Change	Old	New
CONF #: 1140-27020 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27020).
CONF #: 1140-27336 Added		MAY contain zero or one [0..1] priorityCode (CONF:1140-27336).
CONF #: 1140-28096 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28096).
CONF #: 67-11438 Removed	SHALL contain exactly one [1..1] code (CONF:67-11438).	
CONF #: 67-11439 Removed	This code SHALL contain exactly one [1..1] @code="ASSERTION" Assertion (CodeSystem: ActCode urn:oid:2.16.840.1.113883.5.4 STATIC) (CONF:67-11439).	
CONF #: 67-11441 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-11441).	
CONF #: 67-11442 Removed	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-11442).	
CONF #: 67-11443 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-11443).	
CONF #: 67-11444 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67- 11444).	
CONF #: 67-11445 Removed	This effectiveTime SHOULD contain zero or one [0..1] high (CONF:67- 11445).	
CONF #: 67-11457 Removed	SHOULD contain zero or one [0..1] entryRelationship (CONF:67- 11457) such that it	
CONF #: 67-11458 Removed	SHALL contain exactly one [1..1] @typeCode="MFST" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11458).	
CONF #: 67-11459 Removed	SHALL contain exactly one [1..1] @inversionInd="true" (CONF:67- 11459).	
CONF #: 67-11464 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11464).	
CONF #: 67-11477 Removed	SHALL contain exactly one [1..1] Reaction (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.85) (CONF:67-11477).	

Change	Old	New
CONF #: 67-11478 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11478).	
CONF #: 67-13940 Removed	SHALL contain exactly one [1..1] Procedure Performed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.64) (CONF:67-13940).	
CONF #: 1140-11433 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11434 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11461 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-11463 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-11602 Modified	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC)	SHALL contain exactly one [1..1] @typeCode="CAUS" (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-16421 Modified	This value SHALL contain exactly one [1..1] @code="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This value SHALL contain exactly one [1..1] @code="102460003" Decreased tolerance (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96)

11.69 Procedure Order (V2)

Procedure Order (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.63:2014-12-01)

Change	Old	New
Name	Procedure Order	Procedure Order (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.63	urn:hl7ii:2.16.840.1.113883.10.20.24.3.63:2014-12-01
Description	<p>This clinical statement represents an order for a procedure. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment. Note that procedure is distinct from intervention. A time/date stamp is required. MoodCode is constrained to "RQO". ActStatus is constrained to "new" and author is required to represent the ordering clinician.</p>	<p>This template represents the QDM datatype: Procedure, Order.</p> <p>Procedure Order describes an order for a procedure. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment. Note that procedure is distinct from intervention.</p> <p>The moodCode is constrained to "RQO", an author is required to represent the ordering clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the order was signed, it is expected that the two values will be the same. The time the activity is intended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Procedure (urn:oid:2.16.840.1.113883.10.20.22.4.41)	Planned Procedure (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09)
CONF #: 1140-27201 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.

Change	Old	New
		24.3.83:2014-12-01) (CONF:1140-27201).
CONF #: 1140-27346 Added		author/time/low represents the time the order is placed and author/time/high represents the time the order placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27346).
CONF #: 1140-27202 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27202).
CONF #: 1140-27083 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27083).
CONF #: 1140-27323 Added		SHALL contain exactly one [1..1] @classCode="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27323).
CONF #: 1140-27324 Added		SHALL contain exactly one [1..1] code (CONF:1140-27324).
CONF #: 1140-27325 Added		The priorityCode, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27325).
CONF #: 1140-27326 Added		The methodCode, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27326).
CONF #: 1140-27327 Added		MAY contain zero or more [0..*] approachSiteCode (CONF:1140-27327).
CONF #: 1140-27328 Added		If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code. MAY contain zero or one [0..1] targetSiteCode (CONF:1140-27328).
CONF #: 1140-27329 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-

Change	Old	New
		27329) such that it
CONF #: 1140-27330 Added		This code SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27330).
CONF #: 1140-27331 Added		The approachSiteCode, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27331).
CONF #: 1140-27332 Added		The targetSiteCode, if present, SHOULD contain zero or one [0..1] @sdtc:valueSet (CONF:1140-27332).
CONF #: 1140-27333 Added		SHALL contain exactly one [1..1] @typeCode="REFR" refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27333).
CONF #: 1140-27334 Added		SHALL contain exactly one [1..1] Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27334).
CONF #: 1140-27732 Added		The targetSiteCode, if present, MAY contain zero or one [0..1] translation (CONF:1140-27732).
CONF #: 1140-27733 Added		The translation, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27733).
CONF #: 1140-28097 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28097).
CONF #: 67-11101 Removed	SHALL contain exactly one [1..1] code (CONF:67-11101).	
CONF #: 67-11595 Removed	SHALL contain exactly one [1..1] author (CONF:67-11595).	
CONF #: 67-11596 Removed	This author SHALL contain exactly one [1..1] time (CONF:67-11596).	
CONF #: 67-11612 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-11612).	
CONF #: 67-11615 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-11615).	
CONF #: 67-14576 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-14576).	

Change	Old	New
CONF #: 67-14577 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CONF:67-14577).	
CONF #: 1140-11097 Modified	SHALL contain exactly one [1..1] @moodCode="RQO" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="RQO" Request (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11611 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11614 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11617 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11618 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

11.70 Procedure Performed (V2)

Procedure Performed (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01)

Change	Old	New
Name	Procedure Performed	Procedure Performed (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.64	urn:hl7ii:2.16.840.1.113883.10.20.24.3.64:2014-12-01
Description	<p>A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment. Some of these procedures are not reimbursed. Note that procedure is distinct from intervention. MoodCode has been constrained to "EVN".</p>	<p>This template represents the QDM datatype: Procedure, Performed.</p> <p>A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment. Some of these procedures are not reimbursed. Note that procedure is distinct from intervention. MoodCode has been constrained to "EVN".</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Procedure Activity Procedure (urn:oid:2.16.840.1.113883.10.20.22.4.14)	Procedure Activity Procedure (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.14:2014-06-09)
CONF #: 1140-27178 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27178).
CONF #: 1140-27179 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27179).
CONF #: 1140-27129 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27129).
CONF #: 1140-27302 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-

Change	Old	New
		27302) such that it
CONF #: 1140-27303 Added		SHALL contain exactly one [1..1] @typeCode="REFR" refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27303).
CONF #: 1140-27321 Added		SHALL contain exactly one [1..1] Radiation Dosage and Duration (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01) (CONF:1140-27321).
CONF #: 1140-27305 Added		SHALL contain exactly one [1..1] statusCode (CONF:1140-27305).
CONF #: 1140-27308 Added		SHALL contain exactly one [1..1] @classCode="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27308).
CONF #: 1140-27309 Added		SHALL contain exactly one [1..1] code (CONF:1140-27309).
CONF #: 1140-27310 Added		This code SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27310).
CONF #: 1140-27311 Added		MAY contain zero or more [0..*] approachSiteCode (CONF:1140-27311).
CONF #: 1140-27312 Added		If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then set targetSiteCode/@nullFlavor="OTH", targetSiteCode@codeSystem="2.16.840.1.113883.6.96" and use translation for the code. SHOULD contain zero or more [0..*] targetSiteCode (CONF:1140-27312).
CONF #: 1140-27313 Added		The approachSiteCode, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27313).
CONF #: 1140-27314 Added		The targetSiteCode, if present, SHOULD contain zero or one [0..1] @sdtc:valueSet (CONF:1140-27314).
CONF #: 1140-27315 Added		MAY contain zero or more [0..*] entryRelationship (CONF:1140-27315) such that it

Change	Old	New
CONF #: 1140-27316 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27316).
CONF #: 1140-27317 Added		SHALL contain exactly one [1..1] Result (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01) (CONF:1140-27317).
CONF #: 1140-27364 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-27364) such that it
CONF #: 1140-27365 Added		SHALL contain exactly one [1..1] @typeCode="REFR" Refers to (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27365).
CONF #: 1140-27366 Added		SHALL contain exactly one [1..1] Status (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.93) (CONF:1140-27366).
CONF #: 1140-27367 Added		This statusCode SHALL contain exactly one [1..1] @code="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-27367).
CONF #: 1140-27765 Added		The targetSiteCode, if present, MAY contain zero or more [0..*] translation (CONF:1140-27765).
CONF #: 1140-27766 Added		The translation, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27766).
CONF #: 1140-28098 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28098).
CONF #: 67-11495 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-11495).	
CONF #: 67-11496 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-11496).	
CONF #: 1140-11261 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)

Change	Old	New
	STATIC)	
CONF #: 1140-11284 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11286 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11372 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11498 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.88:2014-12-01)
CONF #: 1140-11500 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.71 Procedure Recommended (V2)

Procedure Recommended (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.65:2014-12-01)

Change	Old	New
Name	Procedure Recommended	Procedure Recommended (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.65	urn:hl7ii:2.16.840.1.113883.10.20.24.3.65:2014-12-01
Description	<p>This clinical statement represents a recommendation for a procedure. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment. Note that procedure is distinct from intervention. A time/date stamp is required. MoodCode is constrained to "INT". ActStatus is constrained to "new" and author is required to represent the recommending clinician.</p>	<p>This template represents the QDM datatype: Procedure, Recommended.</p> <p>Procedure Recommended describes a recommendation for a procedure. A procedure is a course of action intended to achieve a result in the care of persons with health problems. It is generally invasive and involves physical contact. A procedure may be a surgery or other type of physical manipulation of a person's body in whole or in part for purposes of making observations and diagnoses and/or providing treatment. Note that procedure is distinct from intervention.</p> <p>The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Procedure (urn:oid:2.16.840.1.113883.10.20.22.4.41)	Planned Procedure (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.41:2014-06-09)

Change	Old	New
CONF #: 1140-27199 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27199).
CONF #: 1140-27352 Added		author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27352).
CONF #: 1140-27085 Added		SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01) (CONF:1140-27085).
CONF #: 1140-27086 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27086).
CONF #: 1140-27200 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27200).
CONF #: 1140-27337 Added		SHALL contain exactly one [1..1] @classCode="PROC" Procedure (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27337).
CONF #: 1140-27338 Added		MAY contain zero or more [0..*] approachSiteCode (CONF:1140-27338).
CONF #: 1140-27654 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27654).
CONF #: 1140-27726 Added		If the code used for QDM Attribute: Anatomical Location does not exist in the value set Body Site (2.16.840.1.113883.3.88.12.3221.8.9) then use targetSiteCode/@nullFlavor="OTH", code@codeSystem="2.16.840.1.113883.6.96" and use translation for the code. (See example below). MAY contain zero or one [0..1] targetSiteCode (CONF:1140-27726).
CONF #: 1140-27727 Added		The targetSiteCode, if present, MAY contain zero or more [0..*]

Change	Old	New
		translation (CONF:1140-27727).
CONF #: 1140-27728 Added		The targetSiteCode, if present, SHOULD contain zero or one [0..1] @sdtc:valueSet (CONF:1140-27728).
CONF #: 1140-27729 Added		The translation, if present, SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27729).
CONF #: 1140-28099 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28099).
CONF #: 67-11560 Removed	MAY contain zero or one [0..1] methodCode (CONF:67-11560).	
CONF #: 67-11581 Removed	SHALL contain exactly one [1..1] author (CONF:67-11581).	
CONF #: 67-11582 Removed	This author SHALL contain exactly one [1..1] time (CONF:67-11582).	
CONF #: 67-11588 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11588).	
CONF #: 67-11590 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11590).	
CONF #: 67-11594 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-11594).	
CONF #: 67-13239 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-13239).	
CONF #: 67-13240 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13240).	
CONF #: 1140-11103 Modified	SHALL contain exactly one [1..1] @moodCode="INT" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="INT" Intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11587 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-11591 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

Change	Old	New
	STATIC)	
CONF #: 1140-11593 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.72 Procedure Result (RETIRED)

Procedure Result (RETIRED) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.66:2014-12-01)

Change	Old	New
Name	Procedure Result	Procedure Result (RETIRED)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.66	urn:hl7ii:2.16.840.1.113883.10.20.24.3.66:2014-12-01
Description	This template represents the findings identified as a result of the procedure. MoodCode has been constrained to "EVN" and statusCode has been constrained to "completed".	<p>This template represents the QDM datatype: Procedure, Result.</p> <p>This datatype represents the findings identified as a result of the procedure. MoodCode has been constrained to "EVN" and statusCode has been constrained to "completed".</p> <p>THIS TEMPLATE HAS BEEN RETIRED. USE OF THIS TEMPLATE IS NOT ALLOWED.</p> <p>*Reason for retirement*: The QDM datatype Procedure, Result has been removed.</p>
Implied Template	Procedure Activity Procedure (urn:oid:2.16.840.1.113883.10.20.22.4.14)	
CONF #: 67-11109 Removed	SHALL contain exactly one [1..1] templateId (CONF:67-11109) such that it	
CONF #: 67-11110 Removed	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.24.3.66" (CONF:67-11110).	
CONF #: 67-11112 Removed	SHALL contain exactly one [1..1] code (CONF:67-11112).	
CONF #: 67-11113 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-11113).	
CONF #: 67-11114 Removed	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC) (CONF:67-11114).	
CONF #: 67-11115 Removed	SHALL contain exactly one [1..1] entryRelationship (CONF:67-11115) such that it	
CONF #: 67-11116 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11116).	
CONF #: 67-11117 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	Result (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.87) (CONF:67-11117).	
CONF #: 67-11685 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 11685) such that it	
CONF #: 67-11686 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 11686) such that it	
CONF #: 67-11687 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11687).	
CONF #: 67-11688 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-11688).	
CONF #: 67-11689 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 11689) such that it	
CONF #: 67-11690 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11690).	
CONF #: 67-11691 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-11691).	
CONF #: 67-11692 Removed	MAY contain zero or one [0..1] entryRelationship (CONF:67- 11692) such that it	
CONF #: 67-11693 Removed	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11693).	
CONF #: 67-11694 Removed	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.88) (CONF:67-11694).	
CONF #: 67-11696 Removed	This effectiveTime SHALL contain exactly one [1..1] low (CONF:67- 11696).	
CONF #: 67-11697 Removed	This effectiveTime SHALL contain exactly one [1..1] high (CONF:67- 11697).	
CONF #: 67-11700 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem:	

Change	Old	New
	HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-11700).	
CONF #: 67-11701 Removed	SHALL contain exactly one [1..1] Radiation Dosage and Duration (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.91) (CONF:67-11701).	
CONF #: 67-14169 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-14169).	
CONF #: 67-14170 Removed	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-14170).	
CONF #: 67-14554 Removed	MAY contain zero or one [0..1] priorityCode (CONF:67-14554).	

11.73 Provider Care Experience (V2)

Provider Care Experience (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.67:2014-12-01)

Change	Old	New
Name	Provider Care Experience	Provider Care Experience (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.67	urn:hl7ii:2.16.840.1.113883.10.20.24.3.67:2014-12-01
Description	This template describes information collected from providers about their perception of the care provided.	<p>This template represents the QDM datatype Provider Care Experience.</p> <p>Provider Care Experience describes information collected from providers about their perception of the care provided.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27291 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27291).
CONF #: 1140-27292 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27292).
CONF #: 1140-27293 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27293).
CONF #: 1140-27562 Added		This code SHALL contain exactly one [1..1] @code="77219-4" Provider satisfaction with healthcare delivery (CONF:1140-27562).
CONF #: 1140-27563 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27563).
CONF #: 1140-27655 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27655).

Change	Old	New
CONF #: 1140-28100 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28100).
CONF #: 67-12490 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12490).	
CONF #: 67-12493 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12493).	
CONF #: 1140-12479 Modified	SHALL contain exactly one [1..1] @classCode="OBS" observation, which SHALL be selected from CodeSystem HL7ActClass (urn:oid:2.16.840.1.113883.5.6) STATIC	SHALL contain exactly one [1..1] @classCode="OBS" observation, which SHALL be selected from CodeSystem HL7ActClass (urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-12480 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" event, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001) STATIC	SHALL contain exactly one [1..1] @moodCode="EVN" event, which SHALL be selected from CodeSystem ActMood (urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-12485 Modified	SHALL contain exactly one [1..1] code="405193005" caregiver satisfaction, which SHALL be selected from CodeSystem SNOMED CT (urn:oid:2.16.840.1.113883.6.96) STATIC	SHALL contain exactly one [1..1] code
CONF #: 1140-12486 Modified	SHALL contain exactly one [1..1] statusCode="completed", which SHALL be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14) STATIC	SHALL contain exactly one [1..1] statusCode="completed", which SHALL be selected from CodeSystem ActStatus (urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-12489 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12492 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)

11.74 Provider Preference (V2)

Provider Preference (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01)

Change	Old	New
Name	Provider Preference	Provider Preference (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.84	urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01
Description	Provider preferences are choices made by care providers relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals).	<p>This template represents the QDM datatype: Provider Preference.</p> <p>Provider preferences are choices made by care providers relative to options for care or treatment (including scheduling, care experience, and meeting of personal health goals).</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27165 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27165).
CONF #: 1140-27294 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27294).
CONF #: 1140-27656 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27656).
CONF #: 1140-28102 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28102).
CONF #: 67-27005 Removed	This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.96" (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96) (CONF:67-27005).	
CONF #: 1140-11126 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11127 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem:	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem:

Change	Old	New
	ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-11129 Modified	This templateId SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.2 4.3.84"	SHALL contain exactly one [1..1] @root="2.16.840.1.113883.10.20.2 4.3.84"
CONF #: 1140-11132 Modified	This code SHALL contain exactly one [1..1] @code="103323008" provider preference	This code SHALL contain exactly one [1..1] @code="77303-6" Provider preference for care action

11.75 Radiation Dosage and Duration (V2)

Radiation Dosage and Duration (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01)

Change	Old	New
Name	Radiation Dosage and Duration	Radiation Dosage and Duration (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.91	urn:hl7ii:2.16.840.1.113883.10.20.24.3.91:2014-12-01
Description	This template represents the QDM attributes Radiation Dosage and Radiation Duration which describe the amount of and/or the duration of radiation that was given during a procedure.	<p>This template represents the QDM attributes: Radiation Dosage and Radiation Duration.</p> <p>Radiation Dosage describes the amount and Radiation Duration describes the duration of radiation given (or requested to be given) during a procedure.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27318 Added		The effectiveTime, if present, MAY contain zero or one [0..1] width (CONF:1140-27318).
CONF #: 1140-27319 Added		One of the following combinations *SHALL* be present: @width, @low and @high, @low and @width or @width and @high. @width by itself shall only be used when no start or end time is known. For example, when one knows that the duration of radiation needs to be 30 minutes, but one may not yet know when the start time will be eg. in a Procedure Order (CONF:1140-27319).
CONF #: 1140-27335 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27335).
CONF #: 1140-27568 Added		This code SHALL contain exactly one [1..1] @code="77304-4" Radiation dose (CONF:1140-27568).
CONF #: 1140-27569 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.

Change	Old	New
		6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27569).
CONF #: 1140-28103 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28103).
CONF #: 1140-13276 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-13277 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13285 Modified	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)
CONF #: 1140-13292 Modified	The effectiveTime, if present, SHALL contain exactly one [1..1] low	The effectiveTime, if present, MAY contain zero or one [0..1] low
CONF #: 1140-13293 Modified	The effectiveTime, if present, SHALL contain exactly one [1..1] high	The effectiveTime, if present, MAY contain zero or one [0..1] high

11.76Reaction (V2)

Reaction (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01)

Change	Old	New
Name	Reaction	Reaction (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.85	urn:hl7ii:2.16.840.1.113883.10.20.24.3.85:2014-12-01
Description	This conformant result observation clinical statement requires an effectiveTime. A result observation represents an undesired symptom, finding, etc., due to an administered substance, device, diagnostic study, intervention, laboratory test or procedure. A reaction can be defined with respect to its severity, and can have been treated by one or more interventions. The observation/code has been constrained to "263851003" reaction (CodeSystem: SNOMED-CT 2.16.840.1.113883.6.96).	This template represents the QDM attribute: Reaction. This conformant result observation clinical statement requires an effectiveTime. A result observation represents an undesired symptom, finding, etc., due to an administered substance, device, diagnostic study, intervention, laboratory test or procedure. A reaction can be defined with respect to its severity, and can have been treated by one or more interventions.
Implied Template	Reaction Observation (urn:oid:2.16.840.1.113883.10.20.22.4.9)	Reaction Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.9:2014-06-09)
CONF #: 1140-27008 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27008).
CONF #: 1140-27306 Added		SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27306).
CONF #: 1140-27307 Added		This value SHALL contain exactly one [1..1] @sdtec:valueSet (CONF:1140-27307).
CONF #: 67-11661 Removed	SHALL contain exactly one [1..1] code (CONF:67-11661).	
CONF #: 67-11662 Removed	This code SHALL contain exactly one [1..1] @code="263851003" reaction (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC) (CONF:67-11662).	
CONF #: 67-11663 Removed	SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:67-11663).	

11.77Reason (V2)

Reason (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)

Change	Old	New
Name	Reason	Reason (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.88	urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01
Description	This template describes the thought process or justification for an action or for not performing an action. Examples include patient, system, or medical-related reasons for declining to perform specific actions. Note that the parent template that calls this template can be asserted to have occurred or to not have occurred. Therefore, this template simply tacks on a reason to some other (possibly negated) act. As such, there is nothing in this template that says whether the parent act did or did not occur.	This template represents the QDM attribute: Reason. This template describes the thought process or justification for an action or for not performing an action. Examples include patient, system, or medical-related reasons for declining to perform specific actions. Note that the parent template that calls this template can be asserted to have occurred or to not have occurred. Therefore, this template simply adds a reason to some other (possibly negated) act. As such, there is nothing in this template that says whether the parent act did or did not occur.
CONF #: 1140-27027 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27027).
CONF #: 1140-27028 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27028).
CONF #: 1140-27551 Added		This effectiveTime SHALL contain exactly one [1..1] low (CONF:1140-27551).
CONF #: 1140-27552 Added		This effectiveTime MAY contain zero or one [0..1] high (CONF:1140-27552).
CONF #: 1140-27657 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27657).
CONF #: 1140-11357 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-11358 Modified	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001	SHALL contain exactly one [1..1] @moodCode="EVN" (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)

Change	Old	New
	STATIC)	
CONF #: 1140-11362 Modified	This code SHALL contain exactly one [1..1] @code="410666004" reason (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="77301-0" Reason care action performed or not
CONF #: 1140-11365 Modified	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC)	This statusCode SHALL contain exactly one [1..1] @code="completed" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14)

11.78Result (V2)

Result (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01)

Change	Old	New
Name	Result	Result (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.87	urn:hl7ii:2.16.840.1.113883.10.20.24.3.87:2014-12-01
Description	This template describes the final consequences or data collected from a sequence of actions or events, or observable entities, including, but not limited to, procedures, laboratory tests, physical examinations, or diagnostic tests.	This template represents the QDM attribute: Result. This template describes the final consequences or data collected from a sequence of actions or events, or observable entities, including but not limited to procedures, laboratory tests, physical examinations, or diagnostic tests.
Implied Template	Result Observation (urn:oid:2.16.840.1.113883.10.20.22.4.2)	Result Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.2:2014-06-09)
CONF #: 1140-27035 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27035).
CONF #: 1140-27658 Added		SHALL contain exactly one [1..1] code (CONF:1140-27658).
CONF #: 1140-27659 Added		This code SHALL contain exactly one [1..1] @sdtc:valueSet (CONF:1140-27659).
CONF #: 1140-14172 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.79 Risk Category Assessment (V2)

Risk Category Assessment (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.69:2014-12-01)

Change	Old	New
Name	Risk Category Assessment	Risk Category Assessment (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.69	urn:hl7ii:2.16.840.1.113883.10.20.24.3.69:2014-12-01
Description	<p>Risk category assessments include tools and calculators that suggest vulnerabilities for any given patient. Distinct from functional status, risk categorization uses findings, observations, results, and sometimes judgments and patient-generated information for use within clinical care algorithms, clinical decision support, and severity analysis. A time and date stamp is required. Examples: Braden Score for Predicting Pressure Score Risk, Morse Fall Risk Scale, Pneumonia Severity Index.</p>	<p>This template represents the QDM datatype: Risk Category Assessment.</p> <p>Risk category assessments include tools and calculators that suggest vulnerabilities for any given patient. Distinct from functional status, risk categorization uses findings, observations, results, and sometimes judgments and patient-generated information for use within clinical care algorithms, clinical decision support, and severity analysis. A time and date stamp is required. Examples: Braden Scale for Predicting Pressure Sore Risk, Morse Fall Risk Scale, Pneumonia Severity Index. If there is a result, it is recorded in value.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
CONF #: 1140-27297 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27297).
CONF #: 1140-27298 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27298).
CONF #: 1140-27299 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27299).
CONF #: 1140-27660 Added		SHALL contain exactly one [1..1] code (CONF:1140-27660).

Change	Old	New
CONF #: 1140-27661 Added		This code SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27661).
CONF #: 1140-28104 Added		SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28104).
CONF #: 1140-28105 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28105).
CONF #: 1140-28106 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28106).
CONF #: 67-12505 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12505).	
CONF #: 67-12508 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12508).	
CONF #: 1140-12504 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)
CONF #: 1140-12507 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90) STATIC	SHALL contain exactly one [1..1] @typeCode="RSON" has reason, which SHALL be selected from CodeSystem HL7ParticipationType (urn:oid:2.16.840.1.113883.5.90)

11.80 Substance Recommended (V2)

Substance Recommended (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.75:2014-12-01)

Change	Old	New
Name	Substance Recommended	Substance Recommended (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.75	urn:hl7ii:2.16.840.1.113883.10.20.24.3.75:2014-12-01
Description	<p>This Substance Recommended template represents a material or consumable that is not considered a clinical drug, such as infant formula or breast milk or other enteral feeding or perhaps a non-prescription lotion or ointment. A date/time stamp is required. MoodCode is constrained to "INT" and actStatus is constrained to "new".</p>	<p>This template represents the QDM datatype: Substance, Recommended.</p> <p>This Substance Recommended template represents a material or consumable that is not considered a clinical drug, such as infant formula, breast milk, other enteral feeding, or a non-prescription lotion or ointment.</p> <p>The moodCode is constrained to "INT", an author is required to represent the recommending clinician and an author time/date stamp is required.</p> <p>QDM attributes: Start Datetime and Stop Datetime are represented by author/time and correspond to when the recommendation was signed, it is expected that the two values will be the same. The time the activity is recommended to take place is represented by effectiveTime.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Plan of Care Activity Substance Administration (urn:oid:2.16.840.1.113883.10.20.22.4.42)	Planned Medication Activity (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.42:2014-06-09)
CONF #: 1140-27166 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27166).
CONF #: 1140-27167 Added		SHALL contain exactly one [1..1]

Change	Old	New
		Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27167).
CONF #: 1140-27152 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27152).
CONF #: 1140-27495 Added		SHALL contain exactly one [1..1] @classCode="SBADM" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-27495).
CONF #: 1140-27720 Added		author/time/low represents the time the recommendation is made and author/time/high represents the time the recommendation placement is completed. SHALL contain exactly one [1..1] Author Participation (identifier: urn:oid:2.16.840.1.113883.10.20.2.4.119) (CONF:1140-27720).
CONF #: 1140-27988 Added		SHALL contain exactly one [1..1] consumable (CONF:1140-27988).
CONF #: 1140-27989 Added		This consumable SHALL contain exactly one [1..1] manufacturedProduct (CONF:1140-27989).
CONF #: 1140-27990 Added		This manufacturedProduct SHALL contain exactly one [1..1] manufacturedMaterial (CONF:1140-27990).
CONF #: 1140-27991 Added		This manufacturedMaterial SHALL contain exactly one [1..1] code (CONF:1140-27991).
CONF #: 1140-27992 Added		This code SHALL contain exactly one [1..1] @sdhc: valueSet (CONF:1140-27992).
CONF #: 1140-28112 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28112).
CONF #: 67-13788 Removed	SHALL contain exactly one [1..1] statusCode (CONF:67-13788).	
CONF #: 67-13789 Removed	This statusCode SHALL contain exactly one [1..1] @code="new" (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14 STATIC) (CONF:67-13789).	
CONF #: 67-13791 Removed	SHALL contain exactly one [1..1] consumable (CONF:67-13791).	
CONF #: 67-13792 Removed	This consumable SHALL contain exactly one [1..1]	

Change	Old	New
	manufacturedProduct (CONF:67-13792).	
CONF #: 67-13793 Removed	This manufacturedProduct SHALL contain exactly one [1..1] manufacturedMaterial (CONF:67-13793).	
CONF #: 67-13794 Removed	This manufacturedMaterial SHALL contain exactly one [1..1] code (CONF:67-13794).	
CONF #: 67-13872 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-13872).	
CONF #: 67-13875 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-13875).	
CONF #: 1140-13784 Modified	SHALL contain exactly one [1..1] @moodCode="INT" intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001 STATIC)	SHALL contain exactly one [1..1] @moodCode="INT" intent (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001)
CONF #: 1140-13868 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13869 Modified	SHALL contain exactly one [1..1] Reason (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.88)	SHALL contain exactly one [1..1] Reason (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.88:2014-12-01)
CONF #: 1140-13871 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-13874 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

11.81 Symptom Active (V2)

Symptom Active (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.76:2014-12-01)

Change	Old	New
Name	Symptom Active	Symptom Active (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.76	urn:hl7ii:2.16.840.1.113883.10.20.24.3.76:2014-12-01
Description	<p>An active symptom is a patient's reported perception of departure from normal functioning that is present at the time indicated. A time/date stamp is required. The observation/code is constrained to="418799008" symptom (CodeSystem: SNOMED-CT 2.16.840.1.113883.6.96) and it contains Problem Status Active (templateId:2.16.840.1.113883.10.20.24.3.94).</p>	<p>This template, along with its containing template Symptom Active Concern Act, represents the QDM datatype: Symptom, Active.</p> <p>An active symptom is a patient's reported perception of departure from normal functioning that is present at the time indicated. The observation/code is constrained to "Symptom" and an effectiveTime/low is required.</p> <p>QDM Attribute: Start Datetime is the time the active symptom is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Symptom Active Concern Act template. QDM Attribute: Stop Datetime is the time the symptom is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Symptom Active Concern Act template. The observation/effectiveTime/low represents the onset date.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Problem Observation (urn:oid:2.16.840.1.113883.10.20.22.4.4)	Problem Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)
CONF #: 1140-27185 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27185).

Change	Old	New
CONF #: 1140-27186 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27186).
CONF #: 1140-27104 Added		SHALL contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27104).
CONF #: 1140-27105 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27105).
CONF #: 1140-27381 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27381).
CONF #: 1140-27567 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27567).
CONF #: 1140-27662 Added		SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27662).
CONF #: 1140-27663 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27663).
CONF #: 1140-28113 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28113).
CONF #: 1140-28236 Added		This template SHALL be contained by a Symptom Active Concern Act (CONF:1140-28236).
CONF #: 67-12257 Removed	SHALL contain exactly one [1..1] entryRelationship (CONF:67-12257) such that it	
CONF #: 67-12258 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12258).	
CONF #: 67-12259 Removed	SHALL contain exactly one [1..1] Problem Status Active (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.94) (CONF:67-12259).	
CONF #: 67-12264 Removed	This effectiveTime SHALL contain exactly one [1..1] high (CONF:67-	

Change	Old	New
	12264).	
CONF #: 67-12267 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12267).	
CONF #: 67-12270 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-12270).	
CONF #: 67-12276 Removed	SHALL contain exactly one [1..1] Severity Observation (identifier: urn:oid:2.16.840.1.113883.10.20.24.4.8) (CONF:67-12276).	
CONF #: 1140-12261 Modified	This code SHALL contain exactly one [1..1] @code="418799008" symptom (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="75325-1" Symptom
CONF #: 1140-12266 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12269 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12275 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12281 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)

11.82 Symptom Assessed (V2)

Symptom Assessed (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.77:2014-12-01)

Change	Old	New
Name	Symptom Assessed	Symptom Assessed (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.77	urn:hl7ii:2.16.840.1.113883.10.20.24.3.77:2014-12-01
Description	This template represents a patient's reported perception of departure from normal functioning. A time/date stamp is required	<p>This template, along with its containing template Symptom Assessed Concern Act, represents the QDM datatype: Symptom, Assessed.</p> <p>This datatype represents a patient's reported perception of departure from normal functioning. This is a symptom that has been evaluated. A time/date stamp is required.</p> <p>QDM Attribute: Start Datetime is the time the assessed symptom is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Symptom Assessed Concern Act template. QDM Attribute: Stop Datetime is the time the symptom is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Symptom Assessed Concern Act template. The observation/effectiveTime/low represents the onset date.</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Problem Observation (urn:oid:2.16.840.1.113883.10.20.22.4.4)	Problem Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)
CONF #: 1140-27183 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27183).

Change	Old	New
CONF #: 1140-27184 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27184).
CONF #: 1140-27107 Added		SHALL contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27107).
CONF #: 1140-27108 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27108).
CONF #: 1140-27382 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27382).
CONF #: 1140-27564 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27564).
CONF #: 1140-27609 Added		SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27609).
CONF #: 1140-27610 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27610).
CONF #: 1140-28114 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28114).
CONF #: 1140-28404 Added		This template SHALL be contained by a Symptom Assessed Concern Act (CONF:1140-28404).
CONF #: 67-12890 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12890).	
CONF #: 67-12893 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.84) (CONF:67-12893).	
CONF #: 67-12896 Removed	SHALL contain exactly one [1..1] Severity Observation (identifier: urn:oid:2.16.840.1.113883.10.20.22.4.8) (CONF:67-12896).	
CONF #: 67-13220 Removed	SHALL contain exactly one [1..1] effectiveTime (CONF:67-13220).	

Change	Old	New
CONF #: 1140-12889 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12892 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12895 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12898 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)
CONF #: 1140-13133 Modified	This code SHALL contain exactly one [1..1] @code="418799008" symptom (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="75325-1" Symptom

11.83 Symptom Inactive (V2)

Symptom Inactive (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.78:2014-12-01)

Change	Old	New
Name	Symptom Inactive	Symptom Inactive (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.78	urn:hl7ii:2.16.840.1.113883.10.20.24.3.78:2014-12-01
Description	<p>An inactive symptom is a symptom that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future. A time/date stamp is required. The observation/code is constrained to="418799008" symptom (CodeSystem: SNOMED-CT 2.16.840.1.113883.6.96) and it contains Problem Status Inactive (templateId:2.16.840.1.113883.10.20.24.3.95)</p>	<p>This template, along with its containing template Symptom Inactive Concern Act, represents the QDM datatype: Symptom, Inactive.</p> <p>An inactive symptom is a symptom that has been present in the past and is currently not under active treatment or causing clinical manifestations, but may require treatment or monitoring in the future. A time/date stamp is required. The observation/code is constrained to "Symptom" and both effectiveTime/low and effectiveTime/high are required.</p> <p>QDM Attribute: Start Datetime is the time the active symptom is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Symptom Inactive Concern Act template. QDM Attribute: Stop Datetime is the time the symptom is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Symptom Inactive Concern Act template. The observation/effectiveTime represents the period of time from onset date (low) until the inactive or resolved date (high).</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Problem Observation	Problem Observation (V2)

Change	Old	New
	(urn:oid:2.16.840.1.113883.10.20.22.4.4)	(urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)
CONF #: 1140-27181 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27181).
CONF #: 1140-27182 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-27182).
CONF #: 1140-27112 Added		SHALL contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.22.4.8:2014-06-09) (CONF:1140-27112).
CONF #: 1140-27113 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-27113).
CONF #: 1140-27383 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27383).
CONF #: 1140-27565 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27565).
CONF #: 1140-27664 Added		SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27664).
CONF #: 1140-27665 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27665).
CONF #: 1140-28115 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28115).
CONF #: 1140-28237 Added		This template SHALL be contained by a Symptom Inactive Concern Act (CONF:1140-28237).
CONF #: 67-12288 Removed	SHALL contain exactly one [1..1] entryRelationship (CONF:67-12288) such that it	
CONF #: 67-12289 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002	

Change	Old	New
	STATIC) (CONF:67-12289).	
CONF #: 67-12290 Removed	SHALL contain exactly one [1..1] Problem Status Inactive (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.95) (CONF:67-12290).	
CONF #: 67-12298 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.83) (CONF:67-12298).	
CONF #: 67-12301 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-12301).	
CONF #: 67-12307 Removed	SHALL contain exactly one [1..1] Severity Observation (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.8) (CONF:67-12307).	
CONF #: 1140-12292 Modified	This code SHALL contain exactly one [1..1] @code="418799008" symptom (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="75325-1" Symptom
CONF #: 1140-12297 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12300 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12306 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12309 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)

11.84 Symptom Resolved (V2)

Symptom Resolved (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.79:2014-12-01)

Change	Old	New
Name	Symptom Resolved	Symptom Resolved (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.79	urn:hl7ii:2.16.840.1.113883.10.20.24.3.79:2014-12-01
Description	<p>A resolved symptom is a symptom that has been present in the past and is currently not expected to recur. A time/date stamp is required. The observation/code is constrained to="418799008" symptom (CodeSystem: SNOMED-CT 2.16.840.1.113883.6.96) and it contains Problem Status Resolved (templateId:2.16.840.1.113883.10.20.24.3.96).</p>	<p>This template, along with its containing template Symptom Resolved Concern Act, represents the QDM datatype: Symptom, Resolved.</p> <p>A resolved symptom is a symptom that has been present in the past and is currently not expected to recur. A time/date stamp is required. The observation/code is constrained to "Symptom" and effectiveTime/low and effectiveTime/high are required.</p> <p>QDM Attribute: Start Datetime is the time the active symptom is entered into the system, is represented by author/time/low, and should be equivalent to the effectiveTime/low in the containing Symptom Resolved Concern Act template. QDM Attribute: Stop Datetime is the time the symptom is made inactive in the system, is represented by author/time/high, and should be equivalent to the effectiveTime/low in the containing Symptom Resolved Concern Act template. The observation/effectiveTime represents the period of time from onset date (low) until the inactive or resolved date (high).</p> <p>QDM attribute: Negation Rationale is represented by setting negationInd="true" and stating the reason (rationale) in a contained Reason (V2) template. Although Reason (V2) is not explicitly contained in every template, it is available for use in any template.</p>
Implied Template	Problem Observation (urn:oid:2.16.840.1.113883.10.20.22.4.4)	Problem Observation (V2) (urn:hl7ii:2.16.840.1.113883.10.20.22.4.4:2014-06-09)
CONF #: 1140-27180 Added		SHALL contain exactly one [1..1]

Change	Old	New
		Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-27180).
CONF #: 1140-27390 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-27390).
CONF #: 1140-27391 Added		SHALL contain zero or one [0..1] @extension="2014-12-01" (CONF:1140-27391).
CONF #: 1140-27566 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-27566).
CONF #: 1140-27666 Added		SHALL contain exactly one [1..1] value with @xsi:type="CD" (CONF:1140-27666).
CONF #: 1140-27667 Added		This value SHALL contain exactly one [1..1] @sdct:valueSet (CONF:1140-27667).
CONF #: 1140-28116 Added		MAY contain zero or one [0..1] @negationInd (CONF:1140-28116).
CONF #: 1140-28238 Added		This template SHALL be contained by a Symptom Resolved Concern Act (CONF:1140-28238).
CONF #: 67-12317 Removed	SHALL contain exactly one [1..1] entryRelationship (CONF:67-12317) such that it	
CONF #: 67-12318 Removed	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-12318).	
CONF #: 67-12319 Removed	SHALL contain exactly one [1..1] Problem Status Resolved (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.96) (CONF:67-12319).	
CONF #: 67-12327 Removed	SHALL contain exactly one [1..1] Patient Preference (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.83) (CONF:67-12327).	
CONF #: 1140-12321 Modified	This code SHALL contain exactly one [1..1] @code="418799008" symptom (CodeSystem: SNOMED CT urn:oid:2.16.840.1.113883.6.96 STATIC)	This code SHALL contain exactly one [1..1] @code="75325-1" Symptom

Change	Old	New
CONF #: 1140-12326 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12329 Modified	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="RSON" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12330 Modified	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84)	SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.84:2014-12-01)
CONF #: 1140-12335 Modified	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="REFR" (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-12336 Modified	SHALL contain exactly one [1..1] Severity Observation (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.8)	SHALL contain exactly one [1..1] Severity Observation (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 22.4.8:2014-06-09)
CONF #: 1140-12338 Modified	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6 STATIC)	SHALL contain exactly one [1..1] @classCode="OBS" (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6)

11.85Transfer From (V2)

Transfer From (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.81:2014-12-01)

Change	Old	New
Name	Transfer From	Transfer From (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.81	urn:hl7ii:2.16.840.1.113883.10.20.24.3.81:2014-12-01
Description	Transfer of care refers to the different locations or settings a patient is released to, or received from, in order to ensure the coordination and continuity of healthcare. Transfer From specifies the setting from which a patient is received (e.g., home, acute care hospital, skilled nursing).	This template represents the QDM datatype: Transfer From. Transfer of care refers to the different locations or settings a patient is released to, or received from, in order to ensure the coordination and continuity of healthcare. Transfer From specifies the setting from which a patient is received (e.g., home, acute care hospital, skilled nursing).
CONF #: 1140-28323 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-28323).
CONF #: 1140-28318 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-28318) such that it
CONF #: 1140-28325 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-28325).
CONF #: 1140-28319 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-28319) such that it
CONF #: 1140-28302 Added		SHALL contain exactly one [1..1] code (CONF:1140-28302).
CONF #: 1140-28303 Added		SHALL contain exactly one [1..1] statusCode (CONF:1140-28303).
CONF #: 1140-28304 Added		SHALL contain exactly one [1..1] participant (CONF:1140-28304) such that it
CONF #: 1140-28305 Added		SHALL contain exactly one [1..1] time (CONF:1140-28305).
CONF #: 1140-28306 Added		SHALL contain exactly one [1..1] @classCode="ENC" Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28306).
CONF #: 1140-28307 Added		SHALL contain exactly one [1..1] @moodCode="EVN" Event

Change	Old	New
		(CodeSystem: ActMood urn:oid:2.16.840.1.113883.5.1001) (CONF:1140-28307).
CONF #: 1140-28308 Added		SHALL contain exactly one [1..1] @extension="2014-12-01" (CONF:1140-28308).
CONF #: 1140-28309 Added		SHALL contain at least one [1..*] id (CONF:1140-28309).
CONF #: 1140-28310 Added		This code SHALL contain exactly one [1..1] @code="77305-1" Transferred from (CONF:1140- 28310).
CONF #: 1140-28311 Added		This code SHALL contain exactly one [1..1] @codeSystem="2.16.840.1.113883. 6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28311).
CONF #: 1140-28312 Added		This statusCode SHALL contain exactly one [1..1] @code="completed" Completed (CodeSystem: ActStatus urn:oid:2.16.840.1.113883.5.14) (CONF:1140-28312).
CONF #: 1140-28313 Added		SHALL contain exactly one [1..1] @typeCode="ORG" Origin (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90) (CONF:1140-28313).
CONF #: 1140-28314 Added		This time SHALL contain exactly one [1..1] low (CONF:1140-28314).
CONF #: 1140-28315 Added		This time MAY contain zero or one [0..1] high (CONF:1140-28315).
CONF #: 1140-28316 Added		SHALL contain exactly one [1..1] participantRole (CONF:1140- 28316).
CONF #: 1140-28317 Added		This participantRole SHALL contain exactly one [1..1] code (CONF:1140-28317).
CONF #: 1140-28320 Added		This participantRole SHALL contain exactly one [1..1] @classCode="LOCE" Located entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110) (CONF:1140-28320).
CONF #: 1140-28321 Added		This code SHALL contain exactly one [1..1] @sdhc: valueSet (CONF:1140-28321).
CONF #: 1140-28322 Added		SHALL contain exactly one [1..1]

Change	Old	New
		@typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28322).
CONF #: 1140-28324 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28324).
CONF #: 67-13185 Removed	SHALL contain exactly one [1..1] time (CONF:67-13185).	
CONF #: 67-13186 Removed	SHALL contain exactly one [1..1] participantRole (CONF:67-13186).	
CONF #: 67-13187 Removed	This participantRole SHALL contain exactly one [1..1] @classCode="LOCE" located entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC) (CONF:67-13187).	
CONF #: 67-13188 Removed	SHALL contain exactly one [1..1] @typeCode="ORG" origin (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:67-13188).	

11.86Transfer To (V2)

Transfer To (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.3.82:2014-12-01)

Change	Old	New
Name	Transfer To	Transfer To (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.3.82	urn:hl7ii:2.16.840.1.113883.10.20.24.3.82:2014-12-01
Description	Transfer of care refers to the different locations or settings a patient is released to, or received from, in order to ensure the coordination and continuity of healthcare. Transfer To specifies the setting the patient is released to (e.g., home, acute care hospital, skilled nursing).	This template represents the QDM datatype: Transfer To. Transfer of care refers to the different locations or settings a patient is released to, or received from, in order to ensure the coordination and continuity of healthcare. Transfer To specifies the setting the patient is released to (e.g., home, acute care hospital, skilled nursing).
CONF #: 1140-28368 Added		SHALL contain exactly one [1..1] Patient Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.83:2014-12-01) (CONF:1140-28368).
CONF #: 1140-28356 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-28356) such that it
CONF #: 1140-28370 Added		SHALL contain exactly one [1..1] Provider Preference (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.84:2014-12-01) (CONF:1140-28370).
CONF #: 1140-28357 Added		MAY contain zero or one [0..1] entryRelationship (CONF:1140-28357) such that it
CONF #: 1140-28352 Added		SHALL contain exactly one [1..1] code (CONF:1140-28352).
CONF #: 1140-28353 Added		SHALL contain exactly one [1..1] statusCode (CONF:1140-28353).
CONF #: 1140-28354 Added		SHALL contain exactly one [1..1] participant (CONF:1140-28354) such that it
CONF #: 1140-28355 Added		SHALL contain exactly one [1..1] time (CONF:1140-28355).
CONF #: 1140-28358 Added		SHALL contain exactly one [1..1] @classCode="ENC" Encounter (CodeSystem: HL7ActClass urn:oid:2.16.840.1.113883.5.6) (CONF:1140-28358).
CONF #: 1140-28359 Added		MAY contain zero or one [0..1] @extension="2014-12-01"

Change	Old	New
		(CONF:1140-28359).
CONF #: 1140-28360 Added		SHALL contain at least one [1..*] id (CONF:1140-28360).
CONF #: 1140-28361 Added		This code SHALL contain exactly one [1..1] @code="77306-9" Discharge disposition (CONF:1140-28361).
CONF #: 1140-28362 Added		This code MAY contain zero or one [0..1] @codeSystem="2.16.840.1.113883.6.1" (CodeSystem: LOINC urn:oid:2.16.840.1.113883.6.1) (CONF:1140-28362).
CONF #: 1140-28363 Added		This statusCode MAY contain zero or one [0..1] @code="completed" Completed (CONF:1140-28363).
CONF #: 1140-28364 Added		SHALL contain exactly one [1..1] @typeCode="DST" Destination (CONF:1140-28364).
CONF #: 1140-28365 Added		This time SHALL contain exactly one [1..1] low (CONF:1140-28365).
CONF #: 1140-28366 Added		This time MAY contain zero or one [0..1] high (CONF:1140-28366).
CONF #: 1140-28367 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-28367).
CONF #: 1140-28369 Added		SHALL contain exactly one [1..1] @typeCode="RSON" Has reason (CONF:1140-28369).
CONF #: 67-13178 Removed	SHALL contain exactly one [1..1] time (CONF:67-13178).	
CONF #: 67-13179 Removed	SHALL contain exactly one [1..1] participantRole (CONF:67-13179).	
CONF #: 67-13180 Removed	This participantRole SHALL contain exactly one [1..1] @classCode="LOCE" located entity (CodeSystem: RoleClass urn:oid:2.16.840.1.113883.5.110 STATIC) (CONF:67-13180).	
CONF #: 67-13181 Removed	SHALL contain exactly one [1..1] @typeCode="DST" destination (CodeSystem: HL7ParticipationType urn:oid:2.16.840.1.113883.5.90 STATIC) (CONF:67-13181).	

11.87Patient Data Section QDM (V2)

Patient Data Section QDM (V2) (urn:hl7ii:2.16.840.1.113883.10.20.24.2.1:2014-12-01)

Change	Old	New
Name	Patient Data Section QDM	Patient Data Section QDM (V2)
Oid	urn:oid:2.16.840.1.113883.10.20.24.2.1	urn:hl7ii:2.16.840.1.113883.10.20.24.2.1:2014-12-01
Description	The Patient Data Section QDM contains entries that conform to the QDM approach to QRDA. In contrast to a QRDA Framework Patient Data Section that requires, but does not specify the structured entries, the Patient Data Section QDM contained entry templates have specific requirements to align the quality measure data element type with its corresponding NQF QDM HQMF pattern, its referenced value set and potential QDM attributes. (See Appendix B — HQMF QDM Data Type to CDA Mapping Tables.) Contained entries must reference the corresponding eMeasure value set via the sdct:valueSet attribute. All entries must also have time element. See Quality Data Model-Based QRDA IG.	The Patient Data Section QDM (V2) contains entries that conform to the QDM approach to QRDA. In contrast to a QRDA Framework Patient Data Section that requires, but does not specify the structured entries, the Patient Data Section QDM contained entry templates have specific requirements to align the quality measure data element type with its corresponding NQF QDM HQMF pattern, its referenced value set and potential QDM attributes. Contained entries must reference the corresponding eMeasure value set via the sdct:valueSet attribute. All entries must also have time element. See Quality Data Model-Based QRDA IG.
CONF #: 1140-27378 Added		SHALL contain exactly one [1..1] Communication from Patient to Provider (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.2:2014-12-01) (CONF:1140-27378).
CONF #: 1140-27092 Added		SHALL contain exactly one [1..1] Device Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.9:2014-12-01) (CONF:1140-27092).
CONF #: 1140-27095 Added		SHALL contain exactly one [1..1] Device Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.10:2014-12-01) (CONF:1140-27095).
CONF #: 1140-27007 Added		SHALL contain exactly one [1..1] Encounter Active (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.21:2014-12-01) (CONF:1140-27007).
CONF #: 1140-27301 Added		SHALL contain exactly one [1..1] Encounter Recommended (V2)

Change	Old	New
		(identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.24:2014-12-01) (CONF:1140- 27301).
CONF #: 1140-27139 Added		SHALL contain exactly one [1..1] Functional Status Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.26:2014-12-01) (CONF:1140- 27139).
CONF #: 1140-27073 Added		SHALL contain exactly one [1..1] Functional Status Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.27:2014-12-01) (CONF:1140- 27073).
CONF #: 1140-27076 Added		SHALL contain exactly one [1..1] Laboratory Test Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.37:2014-12-01) (CONF:1140- 27076).
CONF #: 1140-27156 Added		SHALL contain exactly one [1..1] Laboratory Test Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.38:2014-12-01) (CONF:1140- 27156).
CONF #: 1140-27084 Added		SHALL contain exactly one [1..1] Procedure Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.63:2014-12-01) (CONF:1140- 27084).
CONF #: 1140-27130 Added		SHALL contain exactly one [1..1] Procedure Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.64:2014-12-01) (CONF:1140- 27130).
CONF #: 1140-27087 Added		SHALL contain exactly one [1..1] Procedure Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.65:2014-12-01) (CONF:1140- 27087).
CONF #: 1140-27295 Added		SHALL contain exactly one [1..1] Provider Care Experience (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.67:2014-12-01) (CONF:1140- 27295).
CONF #: 1140-27296 Added		SHALL contain exactly one [1..1]

Change	Old	New
		Patient Care Experience (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.48:2014-12-01) (CONF:1140- 27296).
CONF #: 1140-27136 Added		SHALL contain exactly one [1..1] Physical Exam Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.59:2014-12-01) (CONF:1140- 27136).
CONF #: 1140-27379 Added		SHALL contain exactly one [1..1] Communication from Provider to Patient (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.3:2014-12-01) (CONF:1140- 27379).
CONF #: 1140-27380 Added		SHALL contain exactly one [1..1] Communication from Provider to Provider (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.4:2014-12-01) (CONF:1140- 27380).
CONF #: 1140-27133 Added		SHALL contain exactly one [1..1] Device Applied (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.7:2014-12-01) (CONF:1140- 27133).
CONF #: 1140-27300 Added		SHALL contain exactly one [1..1] Risk Category Assessment (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.69:2014-12-01) (CONF:1140- 27300).
CONF #: 1140-27090 Added		SHALL contain exactly one [1..1] Medication Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.47:2014-12-01) (CONF:1140- 27090).
CONF #: 1140-27040 Added		SHALL contain exactly one [1..1] Medication Active (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.41:2014-12-01) (CONF:1140- 27040).
CONF #: 1140-27041 Added		SHALL contain exactly one [1..1] Medication Dispensed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.45:2014-12-01) (CONF:1140- 27041).
CONF #: 1140-27042 Added		SHALL contain exactly one [1..1] Intervention Recommended (V2)

Change	Old	New
		(identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.33:2014-12-01) (CONF:1140- 27042).
CONF #: 1140-27145 Added		SHALL contain exactly one [1..1] Intervention Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.32:2014-12-01) (CONF:1140- 27145).
CONF #: 1140-27043 Added		SHALL contain exactly one [1..1] Intervention Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.31:2014-12-01) (CONF:1140- 27043).
CONF #: 1140-27044 Added		SHALL contain exactly one [1..1] Intervention Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.30:2014-12-01) (CONF:1140- 27044).
CONF #: 1140-27045 Added		SHALL contain exactly one [1..1] Encounter Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.23:2014-12-01) (CONF:1140- 27045).
CONF #: 1140-27142 Added		SHALL contain exactly one [1..1] Diagnostic Study Performed (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.18:2014-12-01) (CONF:1140- 27142).
CONF #: 1140-27046 Added		SHALL contain exactly one [1..1] Procedure Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.61:2014-12-01) (CONF:1140- 27046).
CONF #: 1140-27047 Added		SHALL contain exactly one [1..1] Procedure Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.62:2014-12-01) (CONF:1140- 27047).
CONF #: 1140-27048 Added		SHALL contain exactly one [1..1] Patient Characteristic Clinical Trial Participant (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.51:2014-12-01) (CONF:1140- 27048).
CONF #: 1140-27049 Added		SHALL contain exactly one [1..1]

Change	Old	New
		Medication Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.46:2014-12-01) (CONF:1140- 27049).
CONF #: 1140-27050 Added		SHALL contain exactly one [1..1] Laboratory Test Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.36:2014-12-01) (CONF:1140- 27050).
CONF #: 1140-27051 Added		SHALL contain exactly one [1..1] Laboratory Test Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.35:2014-12-01) (CONF:1140- 27051).
CONF #: 1140-27153 Added		SHALL contain exactly one [1..1] Substance Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.75:2014-12-01) (CONF:1140- 27153).
CONF #: 1140-27052 Added		SHALL contain exactly one [1..1] Patient Characteristic Expired (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.54:2014-12-01) (CONF:1140- 27052).
CONF #: 1140-27053 Added		SHALL contain exactly one [1..1] Medication Allergy (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.44:2014-12-01) (CONF:1140- 27053).
CONF #: 1140-27063 Added		SHALL contain exactly one [1..1] Medication Adverse Effect (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.43:2014-12-01) (CONF:1140- 27063).
CONF #: 1140-27055 Added		SHALL contain exactly one [1..1] Diagnosis Family History (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.12:2014-12-01) (CONF:1140- 27055).
CONF #: 1140-27062 Added		SHALL contain exactly one [1..1] Discharge Medication - Active Medication (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.105:2014-12-01) (CONF:1140-27062).

Change	Old	New
CONF #: 1140-27068 Added		SHALL contain exactly one [1..1] Care Goal (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.1:2014-12-01) (CONF:1140-27068).
CONF #: 1140-27057 Added		SHALL contain exactly one [1..1] Medication Administered (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.42:2014-12-01) (CONF:1140-27057).
CONF #: 1140-27061 Added		SHALL contain exactly one [1..1] Intervention Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.29:2014-12-01) (CONF:1140-27061).
CONF #: 1140-27079 Added		MAY contain zero or more [0..*] entry (CONF:1140-27079) such that it
CONF #: 1140-27080 Added		SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27080).
CONF #: 1140-27081 Added		SHALL contain exactly one [1..1] Physical Exam Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.58:2014-12-01) (CONF:1140-27081).
CONF #: 1140-27109 Added		MAY contain zero or more [0..*] entry (CONF:1140-27109) such that it
CONF #: 1140-27110 Added		SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27110).
CONF #: 1140-27805 Added		MAY contain zero or more [0..*] entry (CONF:1140-27805) such that it
CONF #: 1140-27831 Added		MAY contain zero or more [0..*] entry (CONF:1140-27831) such that it
CONF #: 1140-27832 Added		SHALL contain exactly one [1..1] @typeCode="DRIV" Is derived from (CodeSystem: HL7ActRelationshipType

Change	Old	New
		urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27832).
CONF #: 1140-27833 Added		SHALL contain exactly one [1..1] @typeCode="DRIV" Is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002) (CONF:1140-27833).
CONF #: 1140-28152 Added		SHALL contain exactly one [1..1] Diagnosis Active Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.121:2014-12-01) (CONF:1140-28152).
CONF #: 1140-28153 Added		SHALL contain exactly one [1..1] Symptom Active Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.120:2014-12-01) (CONF:1140-28153).
CONF #: 1140-28194 Added		SHALL contain exactly one [1..1] Diagnosis Inactive Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.123:2014-12-01) (CONF:1140-28194).
CONF #: 1140-28195 Added		SHALL contain exactly one [1..1] Diagnosis Resolved Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.125:2014-12-01) (CONF:1140-28195).
CONF #: 1140-28196 Added		SHALL contain exactly one [1..1] Symptom Inactive Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.122:2014-12-01) (CONF:1140-28196).
CONF #: 1140-28197 Added		SHALL contain exactly one [1..1] Symptom Resolved Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.124:2014-12-01) (CONF:1140-28197).
CONF #: 1140-28214 Added		MAY contain zero or more [0..*] entry (CONF:1140-28214) such that it
CONF #: 1140-28215 Added		SHALL contain exactly one [1..1] @typeCode="DRIV" Is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

Change	Old	New
		(CONF:1140-28215).
CONF #: 1140-28216 Added		SHALL contain exactly one [1..1] Provider Characteristic Observation Assertion (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.114:2014-12-01) (CONF:1140-28216).
CONF #: 1140-28371 Added		SHALL contain exactly one [1..1] Transfer From (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.81:2014-12-01) (CONF:1140-28371).
CONF #: 1140-28372 Added		SHALL contain exactly one [1..1] Transfer To (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.82:2014-12-01) (CONF:1140-28372).
CONF #: 1140-27111 Added		SHALL contain exactly one [1..1] Symptom Assessed Concern Act (identifier: urn:hl7ii:2.16.840.1.113883.10.20.24.3.127:2014-12-01) (CONF:1140-27111).
CONF #: 67-12833 Removed	SHOULD contain zero or more [0..*] entry (CONF:67-12833) such that it	
CONF #: 67-13137 Removed	SHALL contain exactly one [1..1] Device Order (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.9) (CONF:67-13137).	
CONF #: 67-13138 Removed	SHALL contain exactly one [1..1] Device Recommended (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.10) (CONF:67-13138).	
CONF #: 67-13139 Removed	SHALL contain exactly one [1..1] Diagnosis Active (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.11) (CONF:67-13139).	
CONF #: 67-13140 Removed	SHALL contain exactly one [1..1] Diagnosis Inactive (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.13) (CONF:67-13140).	
CONF #: 67-13141 Removed	SHALL contain exactly one [1..1] Diagnosis Resolved (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.14) (CONF:67-13141).	
CONF #: 67-13144 Removed	SHALL contain exactly one [1..1] Encounter Active (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.21) (CONF:67-13144).	
CONF #: 67-13147 Removed	SHALL contain exactly one [1..1] Encounter Recommended	

Change	Old	New
	(identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.24) (CONF:67-13147).	
CONF #: 67-13151 Removed	SHALL contain exactly one [1..1] Functional Status Performed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.26) (CONF:67-13151).	
CONF #: 67-13153 Removed	SHALL contain exactly one [1..1] Functional Status Recommended (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.27) (CONF:67-13153).	
CONF #: 67-13155 Removed	SHALL contain exactly one [1..1] Laboratory Test Order (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.37) (CONF:67-13155).	
CONF #: 67-13157 Removed	SHALL contain exactly one [1..1] Laboratory Test Performed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.38) (CONF:67-13157).	
CONF #: 67-13160 Removed	MAY contain zero or more [0..*] entry (CONF:67-13160) such that it	
CONF #: 67-13161 Removed	SHALL contain exactly one [1..1] Laboratory Test Result (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.40) (CONF:67-13161).	
CONF #: 67-13163 Removed	SHALL contain exactly one [1..1] Procedure Order (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.63) (CONF:67-13163).	
CONF #: 67-13165 Removed	SHALL contain exactly one [1..1] Procedure Performed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.64) (CONF:67-13165).	
CONF #: 67-13167 Removed	SHALL contain exactly one [1..1] Procedure Recommended (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.65) (CONF:67-13167).	
CONF #: 67-13168 Removed	MAY contain zero or more [0..*] entry (CONF:67-13168) such that it	
CONF #: 67-13169 Removed	SHALL contain exactly one [1..1] Procedure Result (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.66) (CONF:67-13169).	
CONF #: 67-13171 Removed	SHALL contain exactly one [1..1] Provider Care Experience (identifier: urn:oid:2.16.840.1.113883.10.20.2	

Change	Old	New
	4.3.67) (CONF:67-13171).	
CONF #: 67-13173 Removed	SHALL contain exactly one [1..1] Symptom Active (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.76) (CONF:67-13173).	
CONF #: 67-13175 Removed	SHALL contain exactly one [1..1] Symptom Inactive (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.78) (CONF:67-13175).	
CONF #: 67-13177 Removed	SHALL contain exactly one [1..1] Symptom Resolved (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.79) (CONF:67-13177).	
CONF #: 67-13246 Removed	SHALL contain exactly one [1..1] Patient Care Experience (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.48) (CONF:67-13246).	
CONF #: 67-13247 Removed	MAY contain zero or more [0..*] entry (CONF:67-13247) such that it	
CONF #: 67-13248 Removed	SHALL contain exactly one [1..1] Physical Exam Finding (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.57) (CONF:67-13248).	
CONF #: 67-13250 Removed	SHALL contain exactly one [1..1] Physical Exam Performed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.59) (CONF:67-13250).	
CONF #: 67-13261 Removed	SHALL contain exactly one [1..1] Communication from Patient to Provider (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.2) (CONF:67-13261).	
CONF #: 67-13263 Removed	SHALL contain exactly one [1..1] Communication from Provider to Patient (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.3) (CONF:67-13263).	
CONF #: 67-13265 Removed	SHALL contain exactly one [1..1] Communication from Provider to Provider (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.4) (CONF:67-13265).	
CONF #: 67-13269 Removed	SHALL contain exactly one [1..1] Device Applied (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.7) (CONF:67-13269).	
CONF #: 67-13270 Removed	MAY contain zero or more [0..*] entry (CONF:67-13270) such that it	
CONF #: 67-13271 Removed	SHALL contain exactly one [1..1]	

Change	Old	New
	Functional Status Result (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.28) (CONF:67-13271).	
CONF #: 67-13290 Removed	MAY contain zero or more [0..*] entry (CONF:67-13290) such that it	
CONF #: 67-13291 Removed	SHALL contain exactly one [1..1] Patient Care Experience (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.48) (CONF:67-13291).	
CONF #: 67-13866 Removed	SHALL contain exactly one [1..1] Risk Category Assessment (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.69) (CONF:67-13866).	
CONF #: 67-13877 Removed	MAY contain zero or more [0..*] entry (CONF:67-13877) such that it	
CONF #: 67-13878 Removed	SHALL contain exactly one [1..1] Medication Supply Request (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.99) (CONF:67-13878).	
CONF #: 67-13901 Removed	MAY contain zero or more [0..*] entry (CONF:67-13901) such that it	
CONF #: 67-13902 Removed	SHALL contain exactly one [1..1] Intervention Adverse Event (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.29) (CONF:67-13902).	
CONF #: 67-13904 Removed	SHALL contain exactly one [1..1] Medication Order (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.47) (CONF:67-13904).	
CONF #: 67-13911 Removed	SHALL contain exactly one [1..1] Medication Active (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.41) (CONF:67-13911).	
CONF #: 67-13913 Removed	SHALL contain exactly one [1..1] Medication Dispensed (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.45) (CONF:67-13913).	
CONF #: 67-13914 Removed	MAY contain zero or more [0..*] entry (CONF:67-13914) such that it	
CONF #: 67-13915 Removed	SHALL contain exactly one [1..1] Intervention Result (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.34) (CONF:67-13915).	
CONF #: 67-13917 Removed	SHALL contain exactly one [1..1] Intervention Recommended (identifier:	

Change	Old	New
	urn:oid:2.16.840.1.113883.10.20.24.3.33) (CONF:67-13917).	
CONF #: 67-13919 Removed	SHALL contain exactly one [1..1] Intervention Performed (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.32) (CONF:67-13919).	
CONF #: 67-13921 Removed	SHALL contain exactly one [1..1] Intervention Order (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.31) (CONF:67-13921).	
CONF #: 67-13923 Removed	SHALL contain exactly one [1..1] Intervention Intolerance (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.30) (CONF:67-13923).	
CONF #: 67-13925 Removed	SHALL contain exactly one [1..1] Intervention Adverse Event (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.29) (CONF:67-13925).	
CONF #: 67-13942 Removed	SHALL contain exactly one [1..1] Encounter Performed (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.23) (CONF:67-13942).	
CONF #: 67-13943 Removed	MAY contain zero or more [0..*] entry (CONF:67-13943) such that it	
CONF #: 67-13944 Removed	SHALL contain exactly one [1..1] Encounter Active (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.21) (CONF:67-13944).	
CONF #: 67-13945 Removed	MAY contain zero or more [0..*] entry (CONF:67-13945) such that it	
CONF #: 67-13946 Removed	SHALL contain exactly one [1..1] Diagnostic Study Result (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.20) (CONF:67-13946).	
CONF #: 67-13950 Removed	SHALL contain exactly one [1..1] Diagnostic Study Performed (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.18) (CONF:67-13950).	
CONF #: 67-13953 Removed	MAY contain zero or more [0..*] entry (CONF:67-13953) such that it	
CONF #: 67-13954 Removed	SHALL contain exactly one [1..1] Diagnostic Study Intolerance (identifier: urn:oid:2.16.840.1.113883.10.20.24.3.16) (CONF:67-13954).	
CONF #: 67-13956 Removed	SHALL contain exactly one [1..1] Procedure Adverse Event (identifier:	

Change	Old	New
	urn:oid:2.16.840.1.113883.10.20.2 4.3.61) (CONF:67-13956).	
CONF #: 67-13957 Removed	MAY contain zero or more [0..*] entry (CONF:67-13957) such that it	
CONF #: 67-13958 Removed	SHALL contain exactly one [1..1] Procedure Result (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.66) (CONF:67-13958).	
CONF #: 67-13960 Removed	SHALL contain exactly one [1..1] Procedure Intolerance (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.62) (CONF:67-13960).	
CONF #: 67-14248 Removed	SHALL contain exactly one [1..1] Patient Characteristic Clinical Trial Participant (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.51) (CONF:67-14248).	
CONF #: 67-14275 Removed	SHALL contain exactly one [1..1] Medication Intolerance (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.46) (CONF:67-14275).	
CONF #: 67-14279 Removed	SHALL contain exactly one [1..1] Laboratory Test Intolerance (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.36) (CONF:67-14279).	
CONF #: 67-14309 Removed	MAY contain zero or more [0..*] entry (CONF:67-14309) such that it	
CONF #: 67-14310 Removed	SHALL contain exactly one [1..1] Provider Preference (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.84) (CONF:67-14310).	
CONF #: 67-14311 Removed	SHALL contain exactly one [1..1] Laboratory Test Adverse Event (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.35) (CONF:67-14311).	
CONF #: 67-14429 Removed	SHALL contain exactly one [1..1] Substance Recommended (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.75) (CONF:67-14429).	
CONF #: 67-14472 Removed	SHALL contain exactly one [1..1] Patient Characteristic Expired (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.54) (CONF:67-14472).	
CONF #: 67-14539 Removed	SHALL contain exactly one [1..1] Medication Allergy (identifier: urn:oid:2.16.840.1.113883.10.20.2	

Change	Old	New
	4.3.44) (CONF:67-14539).	
CONF #: 67-14541 Removed	SHALL contain exactly one [1..1] Medication Adverse Effect (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.43) (CONF:67-14541).	
CONF #: 67-14566 Removed	SHALL contain exactly one [1..1] Diagnosis Family History (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.12) (CONF:67-14566).	
CONF #: 67-16423 Removed	MAY contain zero or more [0..*] entry (CONF:67-16423) such that it	
CONF #: 67-16424 Removed	SHALL contain exactly one [1..1] Tobacco Use (identifier: urn:oid:2.16.840.1.113883.10.20.2 2.4.85) (CONF:67-16424).	
CONF #: 67-16511 Removed	MAY contain zero or more [0..*] entry (CONF:67-16511) such that it	
CONF #: 67-16535 Removed	SHALL contain exactly one [1..1] Patient Characteristic Gestational Age (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.101) (CONF:67-16535).	
CONF #: 67-16546 Removed	MAY contain zero or more [0..*] entry (CONF:67-16546) such that it	
CONF #: 67-16547 Removed	SHALL contain exactly one [1..1] Patient Characteristic Estimated Date of Conception (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.102) (CONF:67-16547).	
CONF #: 67-16557 Removed	SHALL contain exactly one [1..1] Discharge Medication - Active Medication (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.105) (CONF:67-16557).	
CONF #: 67-16573 Removed	Where the clinical statement codes SHALL contain the @sdtc:valueSet extension to reference the value set from which the supplied code was drawn (CONF:67-16573).	
CONF #: 67-16575 Removed	SHALL contain exactly one [1..1] Care Goal (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.1) (CONF:67-16575).	
CONF #: 67-16619 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002	

Change	Old	New
	STATIC) (CONF:67-16619).	
CONF #: 67-16623 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16623).	
CONF #: 67-16629 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16629).	
CONF #: 67-16635 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16635).	
CONF #: 67-16637 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16637).	
CONF #: 67-16640 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16640).	
CONF #: 67-16641 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16641).	
CONF #: 67-16650 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16650).	
CONF #: 67-16652 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16652).	
CONF #: 67-16656 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem:	

Change	Old	New
	HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16656).	
CONF #: 67-16658 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16658).	
CONF #: 67-16664 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16664).	
CONF #: 67-16671 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16671).	
CONF #: 67-16672 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16672).	
CONF #: 67-16673 Removed	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC) (CONF:67-16673).	
CONF #: 67-16709 Removed	SHALL contain exactly one [1..1] Medication Administered (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.42) (CONF:67-16709).	
CONF #: 1140-13135 Modified	SHALL contain exactly one [1..1] Device Adverse Event (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.5)	SHALL contain exactly one [1..1] Device Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.5:2014-12-01)
CONF #: 1140-13136 Modified	SHALL contain exactly one [1..1] Device Intolerance (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.8)	SHALL contain exactly one [1..1] Device Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.8:2014-12-01)
CONF #: 1140-13142 Modified	SHALL contain exactly one [1..1] Diagnostic Study Adverse Event (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.15)	SHALL contain exactly one [1..1] Diagnostic Study Adverse Event (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.15:2014-12-01)

Change	Old	New
CONF #: 1140-13143 Modified	SHALL contain exactly one [1..1] Diagnostic Study Intolerance (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.16)	SHALL contain exactly one [1..1] Diagnostic Study Intolerance (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.16:2014-12-01)
CONF #: 1140-13145 Modified	SHALL contain exactly one [1..1] Encounter Order (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.22)	SHALL contain exactly one [1..1] Encounter Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.22:2014-12-01)
CONF #: 1140-13149 Modified	SHALL contain exactly one [1..1] Functional Status Order (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.25)	SHALL contain exactly one [1..1] Functional Status Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.25:2014-12-01)
CONF #: 1140-13267 Modified	SHALL contain exactly one [1..1] Device Allergy (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.6)	SHALL contain exactly one [1..1] Device Allergy (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.6:2014-12-01)
CONF #: 1140-13273 Modified	SHALL contain exactly one [1..1] Laboratory Test Recommended (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.39)	SHALL contain exactly one [1..1] Laboratory Test Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.39:2014-12-01)
CONF #: 1140-13295 Modified	SHALL contain exactly one [1..1] Physical Exam Recommended (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.60)	SHALL contain exactly one [1..1] Physical Exam Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.60:2014-12-01)
CONF #: 1140-13948 Modified	SHALL contain exactly one [1..1] Diagnostic Study Recommended (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.19)	SHALL contain exactly one [1..1] Diagnostic Study Recommended (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.19:2014-12-01)
CONF #: 1140-13952 Modified	SHALL contain exactly one [1..1] Diagnostic Study Order (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.17)	SHALL contain exactly one [1..1] Diagnostic Study Order (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.17:2014-12-01)
CONF #: 1140-16549 Modified	SHALL contain exactly one [1..1] Patient Characteristic Observation Assertion (identifier: urn:oid:2.16.840.1.113883.10.20.2 4.3.103)	SHALL contain exactly one [1..1] Patient Characteristic Observation Assertion (V2) (identifier: urn:hl7ii:2.16.840.1.113883.10.20. 24.3.103:2014-12-01)
CONF #: 1140-16601 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16602 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from

Change	Old	New
	(CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	(CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16603 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16604 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16605 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16606 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16607 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16608 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16609 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16610 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

Change	Old	New
CONF #: 1140-16611 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16612 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16614 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16615 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16616 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16617 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16618 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16620 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16621 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType

Change	Old	New
	urn:oid:2.16.840.1.113883.5.1002 STATIC)	urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16622 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16624 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16625 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16626 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16627 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16628 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16630 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16631 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16632 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from

Change	Old	New
	(CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	(CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16633 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16634 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16636 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16638 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16639 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16642 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16643 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16644 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)

Change	Old	New
CONF #: 1140-16645 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16646 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16647 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16648 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16649 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16653 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16654 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16655 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16657 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType

Change	Old	New
	urn:oid:2.16.840.1.113883.5.1002 STATIC)	urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16659 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16660 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16661 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16662 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16663 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16665 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16666 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16667 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16668 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from

Change	Old	New
	(CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	(CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16669 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16670 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16674 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" Is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16675 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16676 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)
CONF #: 1140-16708 Modified	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002 STATIC)	SHALL contain exactly one [1..1] @typeCode="DRIV" is derived from (CodeSystem: HL7ActRelationshipType urn:oid:2.16.840.1.113883.5.1002)