Reporting Death Information from the EHR to Vital Records
HL7 Public Health and Emergency Response WG
Structured Documents Work Group

HL7 Draft Standard for Trial Use
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Acknowledgments

This document contains specifications for using HL7’s Clinical Document Architecture for reporting death information to vital records.

The content defined within this implementation guide is drawn from the US Standard Certificate of Death as revised November 2003.

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## Revision History

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<td>Mead Walker</td>
<td></td>
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Chapter 1

INTRODUCTION

Topics:

• Overview
• Approach
• Scope
• Audience
• Organization of This Guide
• Use of Templates
• Conventions Used in This Guide
Overview

The U.S. vital registration systems have not kept pace with e-commerce or other industries in developing interoperable data systems to support quality and timely data capture and transmission. The current registration system has supported the proliferation of silo solutions that have fostered redundancy in data entry and standards not recognized widely. This may result in slow transmission of birth and death certificate data to the federal government which can significantly impact data timeliness and usefulness which is essential for driving key health and healthcare related policy decisions. It may also influence programmatic and policy decisions for state agencies. The Centers for Disease Control and Prevention/National Center for Health Statistics (CDC/NCHS) is providing support for the development of vital records standards to enable interoperable electronic data exchanges among electronic health record systems, United States (U.S.) vital records systems and potentially other public information systems for birth, death and fetal death events. In a later stage, the CDC/NCHS will also explore the potential to use the same standard to transmit vital record death reporting information from the state vital records offices to the National Center for Health Statistics. We also see the benefits in supporting broader standardization of value sets and models across states.

Approach

This implementation guide (IG) specifies a standard for electronic submission of vital records data from an EHR to a vital statistics agency.

The document focuses on the use case describing the communication of that portion of the death record collected by clinicians to appropriate local, state, and territorial vital statistics agencies using the HL7 Clinical Document Architecture. The goal of the implementation guide is to provide safe, reliable delivery of relevant clinical information to vital records. The use case supported by this implementation guide does not cover the data that is reported by funeral directors.

This use case is not intended to cover reporting to national public health agencies (NCHS).

The following assumption is a precondition for the use of this implementation guide: The data requirements for clinician supplied death information for items to be completed by the medical certifier according to the Edit Specifications for the U.S. Standard Certificate of Death. The jurisdiction may have additional data requirements and edit specifications that will be addressed at the jurisdictional level.

This project supports reusability and ease of data collection through a standard data representation harmonized with work developed through Health Information Technology Expert Panel (HITEP), balloted through Health Level Seven (HL7) and/or recognized by the Health Information Technology Standards Panel (HITSP).

Scope

This specification covers the provision of death reporting data to the applicable jurisdictional vital reporting agency.

Audience

This guide is designed for use by analysts and developers who require guidance on how best to use the HL7 Clinical Document Architecture for providing death related information. Users of this guide must be familiar with the Clinical Document Architecture, and with the HL7 Version 3 models that it relies on. This guide is not intended to be a tutorial on that subject.
Organization of This Guide

The requirements as laid out in the body of this document are subject to change per the policy on implementation guides (see section 13.02 “Draft Standard for Trial Use Documents” within the HL7 Governance and Operations Manual, http://www.hl7.org/documentcenter/public/membership/HL7_Governance_and_Operations_Manual.pdf).

Templates

Templates are organized by document (see Document Templates), by section (see Section Templates), and by clinical statements (see Clinical Statement Templates). Within a section, templates are arranged hierarchically, where a more specific template is nested under the more generic template that it conforms to. See Templates by Containment for a listing of the higher level templates by containment; the appendix Templates Used in This Guide includes a table of all of the templates Organized Hierarchically.

Vocabulary and Value Sets

Vocabularies recommended in this guide are from standard vocabularies. In many cases, these vocabularies are further constrained into value sets for use within this guide. Value set names and OIDs are summarized in the table Summary of Value Sets. Each named value set in this summary table is stored in a template database that will be maintained by CHCA.

Use of Templates

When valued in an instance, the template identifier (templateId) signals the imposition of a set of template-defined constraints. The value of this attribute provides a unique identifier for the templates in question.

Originator Responsibilities

An originator can apply a templateId to assert conformance with a particular template.

In the most general forms of CDA exchange, an originator need not apply a templateId for every template that an object in an instance document conforms to. This implementation guide asserts when templateIds are required for conformance.

Recipient Responsibilities

A recipient may reject an instance that does not contain a particular templateId (e.g., a recipient looking to receive only CCD documents can reject an instance without the appropriate templateId).

A recipient may process objects in an instance document that do not contain a templateId (e.g., a recipient can process entries that contain Observation acts within a Problems section, even if the entries do not have templateIds).

Conventions Used in This Guide

Conformance Requirements

Conformance statements are grouped and identified by the name of the template, along with the templateId and the context of the template (e.g., ClinicalDocument, section, observation), which specifies the element under constraint. If a template is a specialization of another template, its first constraint indicates the more general template. In all cases where a more specific template conforms to a more general template, asserting the more specific template also implies conformance to the more general template. An example is shown below.

Template name
Introduction

[<type of template>: templateId <XXXX.XX.XXX.XXX>]

Description of the template will be here ......

1. Conforms to <The template name> Template (templateId: XXXX<XX>XXX>YYY).
2. SHALL contain [1..1] @classCode = "AAA" <code display name> (CodeSystem: 123.456.789 <XXX> Class)
   STATIC (CONF:<number>).
3. ......

Figure 1: Template name and "conforms to" appearance

The conformance verb keyword at the start of a constraint (SHALL, SHOULD, MAY, etc.) indicates business conformance, whereas the cardinality indicator (0..1, 1..1, 1..*, etc.) specifies the allowable occurrences within an instance. Thus, "MAY contain 0..1" and "SHOULD contain 0..1" both allow for a document to omit the particular component, but the latter is a stronger recommendation that the component be included if it is known.

The following cardinality indicators may be interpreted as follows:

0..1 as zero to one present
1..1 as one and only one present
2..2 as two must be present
1..* as one or more present
0..* as zero to many present

Value set bindings adhere to HL7 Vocabulary Working Group best practices, and include both a conformance verb (SHALL, SHOULD, MAY, etc.) and an indication of DYNAMIC vs. STATIC binding. The use of SHALL requires that the component be valued with a member from the cited value set; however, in every case any HL7 "null" value such as other (OTH) or unknown (UNK) may be used.

Each constraint is uniquely identified (e.g., "CONF:605") by an identifier placed at or near the end of the constraint. These identifiers are not sequential as they are based on the order of creation of the constraint.

1. SHALL contain [1..1] component/structuredBody (CONF:4082).
   a. This component/structuredBody SHOULD contain [0..1] component (CONF:4130) such that it
      a. SHALL contain [1..1] Reporting Parameters section (templateId:2.16.840.1.113883.10.20.17.2.1)
         (CONF:4131).
   b. This component/structuredBody SHALL contain [1..1] component (CONF:4132) such that it
      a. SHALL contain [1..1] Patient data section - NCR (templateId:2.16.840.1.113883.10.20.17.2.5)
         (CONF:4133).

Figure 2: Template-based conformance statements example

CCD templates are included within this implementation guide for ease of reference. CCD templates contained within this implementation guide are formatted WITHOUT typical KEYWORD and XML element styles. A WIKI site is available if you would like to make a comment to be considered for the next release of CCD: http://wiki.hl7.org/index.php?title=CCD_Suggested_Enhancements The user name and password are: wiki/wikiwiki. You will need to create an account to edit the page and add your suggestion.

1. The value for "Observation / @moodCode" in a problem observation SHALL be "EVN"
   2.16.840.1.113883.5.1001 ActMood STATIC. (CONF: 814).
3. The value for "Observation / statusCode" in a problem observation SHALL be "completed"
   2.16.840.1.113883.5.14 ActStatus STATIC. (CONF: 816).
4. A problem observation SHOULD contain exactly one Observation / effectiveTime, to indicate the biological timing of condition (e.g. the time the condition started, the onset of the illness or symptom, the duration of a condition). (CONF: 817).

Figure 3: CCD conformance statements example

Keywords

The keywords SHALL, SHALL NOT, SHOULD, SHOULD NOT, MAY, and NEED NOT in this document are to be interpreted as described in the HL7 Version 3 Publishing Facilitator's Guide.
• **SHALL**: an absolute requirement
• **SHALL NOT**: an absolute prohibition against inclusion
• **SHOULD/SHOULD NOT**: valid reasons to include or ignore a particular item, but must be understood and carefully weighed
• **MAY/NEED NOT**: truly optional; can be included or omitted as the author decides with no implications

**XML Examples**

XML samples appear in various figures in this document in a fixed-width font. Portions of the XML content may be omitted from the content for brevity, marked by an ellipsis (…) as shown in the example below.

```xml
<ClinicalDocument xmlns='urn:h17-org:v3'>
  ...
</ClinicalDocument>
```

**Figure 4: ClinicalDocument example**

XPath expressions are used in the narrative and conformance requirements to identify elements because they are familiar to many XML implementers.
Chapter 2

DOCUMENT TEMPLATES

Topics:

- Reporting Death Information from the EHR to Vital Records

This section contains the document level constraints for CDA documents that are compliant with this implementation guide.
**Reporting Death Information from the EHR to Vital Records**

[ClinicalDocument: templateId 2.16.840.1.113883.10.20.24.1]

1. SHALL contain exactly one [1..1] @classCode="DOCCLIN" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain exactly one [1..1] confidentialityCode (CodeSystem: 2.16.840.1.11.3883.5.25 Confidentiality)
   - An indication of the level of confidentiality with which the document needs to be managed.
5. SHALL contain exactly one [1..1] id
   - Provide the identifier assigned to the document by the healthcare provider acting as a custodian of the information.
6. SHOULD contain exactly one [1..1] languageCode (CodeSystem: 2.16.840.1.113883.11.11526 HumanLanguage)
7. SHALL contain exactly one [1..1] realmCode
8. SHOULD contain zero or one [0..1] title
   - Provide a title for the death information document.
9. SHALL contain exactly one [1..1] effectiveTime
10. SHALL contain exactly one [1..1] custodian
    a. This custodian SHALL contain exactly one [1..1] assignedCustodian
       a. This assignedCustodian Contains exactly one [1..1] representedCustodianOrganization
          a. This representedCustodianOrganization SHALL contain exactly one [1..1] name
          b. This representedCustodianOrganization SHALL contain exactly one [1..1] id
11. SHALL contain exactly one [1..1] death Report Document Body
    a. Contains exactly one [1..1] Death Report Document Body (templateId: 2.16.840.1.113883.10.20.24.1.2)
12. SHALL contain exactly one [1..1] author
    a. This author SHALL contain exactly one [1..1] @typeCode="AUT"
    b. This author SHALL contain exactly one [1..1] time
       - The date/time of authorship is required by CDA. It may be set equal to the document creation date/time.
    c. This author SHALL contain exactly one [1..1] assignedAuthor
       a. This assignedAuthor SHALL contain exactly one [1..1] @classCode="ASSIGNED"
          INLINE
       b. This assignedAuthor SHALL contain exactly one [1..1] id
       c. This assignedAuthor SHALL contain exactly one [1..1] assignedPerson
          a. This assignedPerson SHALL contain zero or one [0..1] @classCode="PSN"
          b. This assignedPerson SHALL contain zero or one [0..1] @determinerCode="INSTANCE"
          c. This assignedPerson SHALL contain zero or more [0..*] name
             - Provide the name of the clinician authoring the report.
13. SHALL contain exactly one [1..1] recordTarget
    a. This recordTarget SHALL contain exactly one [1..1] @typeCode="RCT"
    b. This recordTarget SHALL contain exactly one [1..1] patientRole
a. This patientRole **SHALL** contain exactly one [1..1] \[classCode="PAT"

b. This patientRole **SHALL** contain exactly one [1..1] id

. It is expected that Social Security Number will be provided if it is available. The value "99999999" should be used for persons who do not have a social security number.

c. This patientRole **SHOULD** contain exactly one [1..1] addr

*Street address, city, state and zip code are expected.*

d. This patientRole **SHALL** contain exactly one [1..1] patient

a. This patient **SHALL** contain exactly one [1..1] \[classCode="PSN"

b. This patient **SHALL** contain exactly one [1..1] \[determinerCode="INSTANCE"

c. This patient **SHALL** contain exactly one [1..1] administrativeGenderCode (CodeSystem: 2.16.840.1.113883.5.1 AdministrativeGenderCode)

d. This patient **SHOULD** contain exactly one [1..1] birthTime

e. This patient **SHALL** contain exactly one [1..1] name

---

**Reporting Death Information from the EHR to Vital Records example**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="urn:hl7-org:v3" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd"
   classCode="DOCCLIN" moodCode="EVN">
   <realmCode/>
   <typeId root="2.16.840.1.113883.1.3"/>
   <templateId root="2.16.840.1.113883.10.20.24.1"/>
   <id root="1052464931"/>
   <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1"
      codeSystemName="LOINC"/>
   <title/>
   <effectiveTime/>
   <confidentialityCode codeSystem="2.16.840.1.11.3883.5.25"
      codeSystemName="Confidentiality"/>
   <languageCode/>
   <recordTarget typeCode="RCT">
     <patientRole classCode="PAT">
       <id root="1035510555"/>
       <addr/>
       <patient classCode="PSN" determinerCode="INSTANCE">
         <name/>
         <administrativeGenderCode codeSystem="2.16.840.1.113883.5.1"
            codeSystemName="AdministrativeGenderCode"/>
         <birthTime/>
       </patient>
     </patientRole>
   </recordTarget>
   <author typeCode="AUT">
     <time/>
     <assignedAuthor classCode="ASSIGNED">
       <id root="126134972"/>
       <assignedPerson classCode="PSN" determinerCode="INSTANCE">
         <name/>
       </assignedPerson>
     </assignedAuthor>
   </author>
   <custodian>
     <representedCustodianOrganization>
       <id root="1288898110"/>
       <name/>
     </representedCustodianOrganization>
   </custodian>
</ClinicalDocument>
```
<assignedCustodian/>
</custodian>
<component>
  <structuredBody>
    <component>
      <section>
        <realmCode/>
        <templateId root="2.16.840.1.113883.10.20.24.1.2"/>
        <id root="117009078"/>
        <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <title/>
        <confidentialityCode code="Value"/>
        <languageCode/>
        <author typeCode="AUT">
          <time/>
          <assignedAuthor classCode="ASSIGNED">
            <id root="123895675"/>
            <assignedPerson classCode="PSN" determinerCode="INSTANCE">
              <name/>
            </assignedPerson>
          </assignedAuthor>
          <time/>
          <assignedAuthor classCode="ASSIGNED">
            <id root="1481603294"/>
            <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
          </assignedAuthor>
        </author>
      </section>
      <entry>
        <observation classCode="OBS" moodCode="EVN">
          <realmCode/>
          <templateId root="2.16.840.1.113883.10.20.24.1.3"/>
          <id root="352586563"/>
          <code code="31211-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Date of Death"/>
          <effectiveTime>
            <low value="2012"/>
            <high value="2012"/>
          </effectiveTime>
          <languageCode/>
          <author typeCode="AUT">
            <time/>
            <assignedAuthor classCode="ASSIGNED">
              <id root="1481603294"/>
              <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
            </assignedAuthor>
          </author>
        </observation>
      </entry>
      <entry>
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    <id root="2022480741"/>
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Death Certified"/>
    <effectiveTime>
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    </effectiveTime>
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        <id root="1308765660"/>
        <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
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    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Manner of Death"/>
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      <high value="2012"/>
    </effectiveTime>
    <languageCode/>
    <author typeCode="AUT">
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      <assignedAuthor classCode="ASSIGNED">
        <id root="1271737594"/>
        <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
      </assignedAuthor>
    </author>
  </observation>
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<entry>
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    <realmCode/>
    <templateId root="2.16.840.1.113883.10.20.24.1.8"/>
    <id root="1987955829"/>
    <code code="11449-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Pregnancy Status"/>
    <effectiveTime>
      <low value="2012"/>
      <high value="2012"/>
    </effectiveTime>
    <languageCode/>
    <author typeCode="AUT">
      <time/>
      <assignedAuthor classCode="ASSIGNED">
        <id root="1032239936"/>
        <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
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  <templateId root="2.16.840.1.113883.10.20.24.1.9"/>
  <id root="1702881528"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Tobacco Use"/>
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    <high value="2012"/>
  </effectiveTime>
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    <assignedAuthor classCode="ASSIGNED">
      <id root="843437084"/>
      <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
    </assignedAuthor>
  </author>
</organizer>

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      <id root="481608318"/>
      <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
    </assignedAuthor>
  </author>
</organizer>
<realmCode/>
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<effectiveTime>
  <low value="2012"/>
  <high value="2012"/>
</effectiveTime>
<languageCode/>
<author typeCode="AUT">
  <time/>
  <assignedAuthor classCode="ASSIGNED">
    <id root="1942048425"/>
    <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
  </assignedAuthor>
</author>
</observation>
<entry>
<observation classCode="OBS" moodCode="EVN">
  <realmCode/>
  <templateId root="2.16.840.1.113883.10.20.24.1.13"/>
  <id root="638027690"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Autopsy Result Availability"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
  <languageCode/>
  <author typeCode="AUT">
    <time/>
    <assignedAuthor classCode="ASSIGNED">
      <id root="2006006743"/>
      <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
    </assignedAuthor>
  </author>
</observation>
</entry>
<entry>
<observation classCode="OBS" moodCode="EVN">
  <realmCode/>
  <templateId root="2.16.840.1.113883.10.20.24.1.14"/>
  <id root="1166906136"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Coroner Referral Reason"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
  <languageCode/>
  <author typeCode="AUT">
    <time/>
    <assignedAuthor classCode="ASSIGNED">
      <id root="1358515575"/>
      <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
    </assignedAuthor>
  </author>
</observation>
</entry>
<entry>
<observation classCode="OBS" moodCode="EVN">
  <realmCode/>
  <templateId root="2.16.840.1.113883.10.20.24.1.14"/>
  <id root="1166906136"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Coroner Referral Reason"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
  <languageCode/>
  <author typeCode="AUT">
    <time/>
    <assignedAuthor classCode="ASSIGNED">
      <id root="1358515575"/>
      <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
    </assignedAuthor>
  </author>
</observation>
</entry>
<templateId root="2.16.840.1.113883.10.20.24.1.12"/>
<id root="1260910813"/>
<code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Coroner Assignment"/>
<effectiveTime>
  <low value="2012"/>
  <high value="2012"/>
</effectiveTime>
<languageCode/>
<author typeCode="AUT">
  <time/>
  <assignedAuthor classCode="ASSIGNED">
    <id root="1904160886"/>
    <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
  </assignedAuthor>
</author>
</observation>
</entry>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
Chapter 3

SECTION TEMPLATES

Topics:

• Death Report Document Body
Death Report Document Body

[Section: templateId 2.16.840.1.113883.10.20.24.1.2]

1. SHALL contain zero or one [0..1] code (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
   • A code to indicate this is the section containing death reporting information.
2. Contains zero or one [0..1] text
   • Contains, as text entries that can be rendered using a browser, the content of the structured information from the entries within the section.
3. SHALL contain zero or one [0..1] time of Death
   a. Contains exactly one [1..1] Time of Death (templateId: 2.16.840.1.113883.10.20.24.1.3)
4. SHALL contain zero or one [0..1] location of Death
   a. Contains exactly one [1..1] Location of Death (templateId: 2.16.840.1.113883.10.20.24.1.4)
5. MAY contain zero or one [0..1] death Certification
   a. Contains exactly one [1..1] Death Certification (templateId: 2.16.840.1.113883.10.20.24.1.5)
6. SHALL contain zero or one [0..1] manner of Death
   a. Contains exactly one [1..1] Manner of Death (templateId: 2.16.840.1.113883.10.20.24.1.7)
7. SHALL contain zero or one [0..1] pregnancy Status
   a. Contains exactly one [1..1] Pregnancy Status (templateId: 2.16.840.1.113883.10.20.24.1.8)
8. SHALL contain zero or one [0..1] tobacco Use
   a. Contains exactly one [1..1] Tobacco Use (templateId: 2.16.840.1.113883.10.20.24.1.9)
9. SHALL contain zero or one [0..1] injury
   a. Contains exactly one [1..1] Injury (templateId: 2.16.840.1.113883.10.20.24.1.10)
10. SHALL contain zero or one [0..1] cause of Death
    a. Contains exactly one [1..1] Cause of Death (templateId: 2.16.840.1.113883.10.20.24.1.6)
11. SHALL contain zero or one [0..1] autopsy Performance
    a. Contains exactly one [1..1] Autopsy Performance (templateId: 2.16.840.1.113883.10.20.24.1.11)
12. MAY contain zero or one [0..1] autopsy Results
    a. Contains exactly one [1..1] Autopsy Results (templateId: 2.16.840.1.113883.10.20.24.1.13)
13. MAY contain zero or one [0..1] coroner Referral
    a. Contains exactly one [1..1] Coroner Referral (templateId: 2.16.840.1.113883.10.20.24.1.14)
14. SHALL contain zero or one [0..1] coroner Performance
    a. Contains exactly one [1..1] Coroner Performance (templateId: 2.16.840.1.113883.10.20.24.1.12)

Death Report Document Body example

```xml
<?xml version="1.0" encoding="UTF-8"?>
<section xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
  <templateId root="2.16.840.1.113883.10.20.24.1.2"/>
  <id root="103160055"/>
  <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  <title/>
  <entry>
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.24.1.3"/>
      <id root="595853082"/>
    </observation>
  </entry>
</section>
```
<code code="31211-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Date of Death"/>
<effectiveTime>
  <low value="2012"/>
  <high value="2012"/>
</effectiveTime>
</observation>
</entry>
<entry>
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.4"/>
  <id root="1175964328"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Location of Death"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</observation>
</entry>
<entry>
<observation>
  <templateId root="2.16.840.1.113883.10.20.24.1.5"/>
  <id root="1520959021"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Death Certified"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</observation>
</entry>
<entry>
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.7"/>
  <id root="1744895708"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Manner of Death"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</observation>
</entry>
<entry>
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.8"/>
  <id root="1744895708"/>
  <code code="11449-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Pregnancy Status"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</observation>
</entry>
<entry>
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.9"/>
  <id root="538634019"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Tobacco Use"/>
  <effectiveTime>
    <low value="2012"/>
  </effectiveTime>
</observation>
</entry>
<organizer classCode="CLUSTER" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.10"/>
  <id root="455713963"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Injury Cluster"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</organizer>
</entry>
<entry>
  <templateId root="2.16.840.1.113883.10.20.24.1.6"/>
  <id root="1278892001"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Cause Of Death Cluster"/>
  <statusCode code="completed"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</organizer>
</entry>
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.11"/>
  <id root="291918744"/>
  <code code="21986-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Autopsy Status"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</observation>
</entry>
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.13"/>
  <id root="1700758106"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Autopsy Result Availability"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</observation>
</entry>
<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.14"/>
  <id root="1763321440"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Coroner Referral Reason"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</observation>
</entry>
<observation>
</observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.1.12"/>
    <id root="1149933054"/>
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Coroner Assignment"/>
    <effectiveTime>
      <low value="2012"/>
      <high value="2012"/>
    </effectiveTime>
  </observation>
</entry>
</section>
Chapter 4

CLINICAL STATEMENT TEMPLATES

Topics:

- Autopsy Performance
- Autopsy Results
- Cause of Death
- Coroner Performance
- Coroner Referral
- Death Cause
- Death Cause Interval
- Death Certification
- Injury
- Injury Information
- Location of Death
- Manner of Death
- Other Significant Condition
- Pregnancy Status
- Time of Death
- Tobacco Use
- Transportation Association
- Transportation Relationship
- Work Association

This section of the Implementation Guide details the clinical statement entries referenced in the document section templates. The clinical statement entry templates are arranged alphabetically.
Autopsy Performance

[Observation: templateId 2.16.840.1.113883.10.20.24.1.11]

Information on the performance of an autopsy.

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="21986-5" Autopsy Status (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain exactly one [1..1] effectiveTime
   - If an autopsy is performed, this field is valued with the date and time the autopsy was begun and completed.
5. SHALL contain exactly one [1..1] value, where its data type is BL
   - This field indicates whether an autopsy was performed.
6. SHALL contain zero or one [0..1] performer
   a. This performer SHALL contain zero or one [0..1] @typeCode="PRF"
   b. This performer SHALL contain zero or one [0..1] assignedEntity
      a. This assignedEntity SHALL contain zero or one [0..1] @classCode="ASSIGNED"
      b. This assignedEntity Contains zero or one [0..1] assignedPerson
         a. This assignedPerson SHALL contain zero or one [0..1] @classCode="PSN"
         b. This assignedPerson SHALL contain zero or one [0..1] @determinerCode="INSTANCE"
         c. This assignedPerson SHALL contain exactly one [1..1] name
            This field is valued with the authority who performed the autopsy.

Autopsy Performance example

<?xml version="1.0" encoding="UTF-8"?>
<observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
 xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd"
classCode="OBS" moodCode="EVN">
 <templateId root="2.16.840.1.113883.10.20.24.1.11"/>
 <id root="539227263"/>
 <code code="21986-5" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Autopsy Status"/>
 <effectiveTime>
  <low value="2012"/>
  <high value="2012"/>
 </effectiveTime>
 <value xsi:type="BL"/>
 <performer typeCode="PRF">
  <assignedEntity classCode="ASSIGNED">
   <id root="1650868571"/>
   <assignedPerson classCode="PSN" determinerCode="INSTANCE">
    <name/>
   </assignedPerson>
  </assignedEntity>
 </performer>
</observation>
Autopsy Results

[Observation: templateId 2.16.840.1.113883.10.20.24.1.13]

Information regarding the availability of results from an autopsy.

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Autopsy Result Availability (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain exactly one [1..1] value, where its data type is BL
   • A Boolean indicator (Yes/No) that tells whether an autopsy report is available for the deceased.

Autopsy Results example

```xml
<?xml version="1.0" encoding="UTF-8"?>
<observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd" classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.13"/>
  <id root="1043447488"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Autopsy Result Availability"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
  <value xsi:type="BL"/>
</observation>
```

Cause of Death

[Organizer: templateId 2.16.840.1.113883.10.20.24.1.6]

Information provided by the clinician that indicates the cause of the person's death.

1. SHALL contain exactly one [1..1] @classCode="CLUSTER" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Cause Of Death Cluster (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain exactly one [1..1] statusCode (CodeSystem: 2.16.840.1.113883.5.14 HL7ActStatus)
5. SHALL contain zero or one [0..1] component
   a. This component SHALL contain zero or one [0..1] @typeCode="COMP"
   b. This component SHALL contain exactly one [1..1] sequenceNumber
   c. This component SHALL contain zero or one [0..1] observation
      a. This observation SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
      b. This observation SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
c. This observation **SHALL** contain exactly one [1..1] `code/@code="21984-0"` **Cause of Death** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

d. This observation **SHALL** contain exactly one [1..1] `value`, where its data type is ED

Descriptive text that indicates one or more diseases, injuries, or complications that were implicated as a cause of the person's death. In order to comply with NCHS edit specifications, the maximum length is 120 characters. The immediate cause of death and the underlying cause of death must be reported. Additional causes of death up to two may be recorded. Death causes are ordered sequentially with the immediate cause of death given the sequence number "1", and the underlying cause of death being given the highest sequence number among the set of cited causes. Each cause of death is associated with a numeric observation Death Cause Interval which captures the approximate interval between the onset of the death cause (condition) and death. This linkage is implemented through the use of actRelationship.sequenceNumber.

6. **SHOULD** contain zero or one [0..1] **component**

   a. This component **SHALL** contain zero or one [0..1] `@typeCode="COMP"`

   b. This component **SHALL** contain zero or one [0..1] `observation`

      a. This observation **SHALL** contain exactly one [1..1] `@classCode="OBS"` **Observation** (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)

      b. This observation **SHALL** contain exactly one [1..1] `@moodCode="EVN"` **Event** (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)

      c. This observation **SHALL** contain exactly one [1..1] `code/@code="LOINC TBD"` **Other Significant Condition** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

      d. This observation **SHALL** contain exactly one [1..1] `value`, where its data type is ED

Descriptive text that provides information on a significant condition or conditions that contributed to death, but did not result in the underlying cause that is elsewhere described. In order to comply with NCHS edit specifications, the maximum length is 240 characters.

7. **SHALL** contain zero or one [0..1] **component**

   a. This component **SHALL** contain zero or one [0..1] `@typeCode="COMP"`

   b. This component **SHALL** contain zero or one [0..1] `sequenceNumber`

   c. This component **SHALL** contain zero or one [0..1] `observation`

      a. This observation **SHALL** contain exactly one [1..1] `@classCode="OBS"` **Observation** (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)

      b. This observation **SHALL** contain exactly one [1..1] `@moodCode="EVN"` **Event** (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)

      c. This observation **SHALL** contain exactly one [1..1] `code/@code="LOINC TBD"` **Death Cause Interval** (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

      d. This observation **SHALL** contain zero or more [0..*] `value`, where its data type is ED

A measure of the time interval between the onset of the disease, injury or complication, and the person's death. The data to be included will vary from statements of time intervals to text statements such as "many months", "days", "unknown". Each death cause interval value is associated with a cause of death observation Cause of Death - that identifies the condition associated with the time interval. This linkage is implemented through the use of actRelationship.sequenceNumber.

**Cause of Death example**

```xml
<?xml version="1.0" encoding="UTF-8"?><organizer xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd" classCode="CLUSTER" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.6"/>
  <id root="1213815400"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Cause Of Death Cluster"/>
</organizer>
```
Coroner Performance

[Observation: templateId 2.16.840.1.113883.10.20.24.1.12]

Information about the assignment of a case to a coroner or medical examiner.

1. **SHOULD** contain exactly one [1..1] `@classCode`="OBS" `Observation` (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. **SHALL** contain exactly one [1..1] `@moodCode`="EVN" `Event` (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. **SHALL** contain exactly one [1..1] `code/@code`="LOINC TBD" `Coroner Assignment` (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. **MAY** contain zero or one [0..1] `id`
   - The identifier assigned to a case of death by the coroner or medical examiner.
5. **SHALL** contain exactly one [1..1] `value`, where its data type is BL
   - This field indicates whether the case was transferred to a coroner or medical examiner.

Coroner Performance example

```xml
<?xml version="1.0" encoding="UTF-8"?>
<observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd" classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.24.1.12"/>
    <id root="620570273"/>
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" display="Coroner Assignment"/>
    <effectiveTime>
        <low value="2012"/>
        <high value="2012"/>
    </effectiveTime>
</observation>
```
Coroner Referral

Information regarding the referral of a case to the coroner or medical examiner.

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Coroner Referral Reason (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain exactly one [1..1] value, where its data type is ED

   • A note that is intended to record the reason the case was forwarded to a coroner or medical examiner.

Coroner Referral example

```xml
<?xml version="1.0" encoding="UTF-8"?>
<observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd"
classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.14"/>
  <id root="1019273153"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Coroner Referral Reason"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
  <value xsi:type="ED">Text Value</value>
</observation>
```

Death Cause

Descriptive text that indicates one or more diseases, injuries, or complications that were implicated as a cause of the person's death. In order to comply with NCHS edit specifications, the maximum length is 120 characters. The immediate cause of death and the underlying cause of death must be reported. Additional causes of death up to two may be recorded. Death causes are ordered sequentially with the immediate cause of death given the sequence number "1", and the underlying cause of death being given the highest sequence number among the set of cited causes. Each cause of death is associated with a numeric observation Death Cause Interval which captures the approximate interval between the onset of the death cause (condition) and death. This linkage is implemented through the use of actRelationship.sequenceNumber.
Death Cause example

Death Cause Interval

[Observation: templateId null]

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Death Cause Interval (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain zero or more [0..*] value, where its data type is ED
   - A measure of the time interval between the onset of the disease, injury or complication, and the person's death. The data to be included will vary from statements of time intervals to text statements such as "many months", "days", "unknown". Each death cause interval value is associated with a cause of death observation Cause of Death - that identifies the condition associated with the time interval. This linkage is implemented through the use of actRelationship.sequenceNumber.

Death Cause Interval example

Death Certification

[Observation: templateId 2.16.840.1.113883.10.20.24.1.5]

Information on the the signing and identification of the death certificate.

1. SHALL contain exactly one [1..1] @classCode
2. SHALL contain exactly one [1..1] @moodCode
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Death Certified (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain zero or one [0..1] effectiveTime
   - Provide the date and time at which the death certificate was signed. A value is required if the case has not been assigned to a coronor/medical examiner.
5. SHALL contain exactly one [1..1] performer
   a. This performer SHALL contain exactly one [1..1] @typeCode="PRF"
   b. This performer SHALL contain exactly one [1..1] assignedEntity
      a. This assignedEntity SHALL contain exactly one [1..1] @classCode="ASSIGNED"
      b. This assignedEntity SHALL contain exactly one [1..1] addr
         - The postal address used to locate the clinician or coroner at the time of death certification. The element is required if the death has been certified.
      c. This assignedEntity SHALL contain exactly one [1..1] code (CodeSystem: OID TBD Certifier Types)
         - A coded value that indicates the role played by the person certifying the death. E.g., coroner, physician.
      d. This assignedEntity SHALL contain exactly one [1..1] assignedPerson
         a. This assignedPerson SHALL contain exactly one [1..1] @classCode="PSN"
         b. This assignedPerson SHALL contain exactly one [1..1] @determinerCode="INSTANCE"
         c. This assignedPerson SHALL contain exactly one [1..1] name
This field is valued with the person who signed the death certificate. The full name of the certifier is required. A value is required if the case has not been assigned to a coroner/medical examiner.

**Death Certification example**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd">
    <templateId root="2.16.840.1.113883.10.20.24.1.5"/>
    <id root="1876568811"/>
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1"
        codeSystemName="LOINC" displayName="Death Certified"/>
    <effectiveTime>
        <low value="2012"/>
        <high value="2012"/>
    </effectiveTime>
    <performer typeCode="PRF">
        <assignedEntity classCode="ASSIGNED">
            <id root="1711571151"/>
            <code codeSystem="OID TBD" codeSystemName="Certifier Types"/>
            <addr/>
            <assignedPerson classCode="PSN" determinerCode="INSTANCE">
                <name/>
            </assignedPerson>
        </assignedEntity>
    </performer>
</observation>
```

**Injury**

Information, only provided if relevant, on an injury that contributed to the person's death.

1. **SHALL** contain exactly one [1..1] @classCode="CLUSTER" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. **SHALL** contain exactly one [1..1] code/@code="LOINC TBD" Injury Cluster (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. **SHALL** contain exactly one [1..1] statusCode (CodeSystem: 2.16.840.1.113883.5.14 HL7ActStatus)
5. **SHALL** contain zero or one [0..1] component
   a. This component **SHALL** contain zero or one [0..1] @typeCode="COMP"
   b. This component Contains zero or one [0..1] observation
      a. This observation **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
      b. This observation **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
      c. This observation **SHALL** contain exactly one [1..1] code/@code="LOINC TBD" Injury Resulting in Death (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
      d. This observation **MAY** contain zero or one [0..1] text
         A text description of how the injury occurred.
      e. This observation **SHALL** contain zero or more [0..*] value, where its data type is BL
         A Boolean indicator (Yes/No) that tells whether the death resulted from an injury.
      f. This observation **MAY** contain exactly one [1..1] participant
a. This participant **SHALL** contain exactly one [1..1] `@typeCode`="LOC"

b. This participant **MAY** contain zero or one [0..1] participantRole

   a. This participantRole **SHALL** contain exactly one [1..1] `@classCode`="ISDLOC"
   
   b. This participantRole **MAY** contain exactly one [1..1] `addr`

   *The street address for the place where the injury occurred. Required if the decedent suffered an injury leading to death.*

   c. This participantRole **MAY** contain zero or one [0..1] scopingEntity

      a. This scopingEntity **SHALL** contain zero or one [0..1] `@classCode`="PLC"
      
      b. This scopingEntity **MAY** contain zero or one [0..1] `@determinerCode`="INSTANCE"
      
      c. This scopingEntity **MAY** contain zero or one [0..1] `desc`

      *A description of the type of place where the injury occurred. Possible entries are "at home", "farm", "factory", "office building", "restaurant". Required if the decedent suffered an injury leading to death.*

   g. This observation **MAY** contain zero or one [0..1] `effectiveTime`

6. **MAY** contain zero or one [0..1] `@typeCode`="COMP"

a. This component **SHALL** contain zero or one [0..1] `@classCode`="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)

b. This observation **MAY** contain exactly one [1..1] `@moodCode`="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)

c. This observation **MAY** contain exactly one [1..1] `@code`="LOINC TBD" *Work Associated Injury* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

d. This observation **MAY** contain zero or more [0..*] `value`, where its data type is BL

   *A Boolean indicator (Yes/No) that tells whether or not the injury occurred while the person was at work. Required if the decedent suffered an injury leading to death.*

7. **MAY** contain zero or one [0..1] `@typeCode`="COMP"

a. This component **SHALL** contain zero or one [0..1] `@classCode`="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)

b. This observation **MAY** contain exactly one [1..1] `@moodCode`="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)

c. This observation **MAY** contain exactly one [1..1] `@code`="LOINC TBD" *Transportation Associated Injury* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)

d. This observation **MAY** contain zero or more [0..*] `value`, where its data type is BL

   *A Boolean indicator (Yes/No) that tells whether the injury leading to death was associated with a transportation event. Required if the decedent suffered an injury leading to death.*

8. **MAY** contain zero or one [0..1] `@typeCode`="COMP"

a. This component **SHALL** contain zero or one [0..1] `@classCode`="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)

b. This observation **MAY** contain exactly one [1..1] `@moodCode`="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)

c. This observation **MAY** contain exactly one [1..1] `@code`="LOINC TBD" *Injury Transportation Relationship* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
d. This observation SHALL contain zero or more [0..*] value, where its data type is BL.

A coded value that states, if the injury was related to transportation, the specific role played by the decedent, e.g. driver, passenger. Required if the decedent suffered an injury leading to death.

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<tbody>
<tr>
<td>cda::organizer[cda:templateId/@root = 2.16.840.1.113883.10.20.24.1.10]/</td>
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</table>

**Injury example**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<organizer xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd" classCode="CLUSTER" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.10"/>
</organizer>
```
Injury Information

[Observation: templateId null]

1. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. **SHALL** contain exactly one [1..1] code/@code="LOINC TBD" Injury Resulting in Death (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. **MAY** contain zero or one [0..1] text
   - A text description of how the injury occurred.
5. **SHALL** contain zero or more [0..*] **value**, where its data type is **BL**
   - A Boolean indicator (Yes/No) that tells whether the death resulted from an injury.

6. **MAY** contain exactly one [1..1] **participant**
   a. This participant **SHALL** contain exactly one [1..1] **@typeCode**="LOC"
   b. This participant Contains zero or one [0..1] **participantRole**
      a. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="ISDLOC"
      b. This participantRole **MAY** contain exactly one [1..1] **addr**
         *The street address for the place where the injury occurred. Required if the decedent suffered an injury leading to death.*
   c. This participantRole **MAY** contain zero or one [0..1] **scopingEntity**
      a. This scopingEntity **SHALL** contain zero or one [0..1] **@classCode**="PLC"
      b. This scopingEntity Contains zero or one [0..1] **@determinerCode**="INSTANCE"
      c. This scopingEntity **MAY** contain zero or one [0..1] **desc**
         *A description of the type of place where the injury occurred. Possible entries are "at home", "farm", "factory", "office building", "restaurant". Required if the decedent suffered an injury leading to death.*

7. **MAY** contain zero or one [0..1] **effectiveTime**

### Injury Information example

**Location of Death**

[Observation: templateId 2.16.840.1.113883.10.20.24.1.4]

Information to document where the death occurred.

1. **SHALL** contain exactly one [1..1] **@classCode**="OBS"  *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. **SHALL** contain exactly one [1..1] **@moodCode**="EVN"  *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. **SHALL** contain exactly one [1..1] **code/@code**="LOINC TBD"  *Location of Death* (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. **MAY** contain zero or one [0..1] **text**
   - Information about the place where death occurred. It is provided if no address can be.
5. **SHALL** contain zero or more [0..*] **value**, where its data type is **AD**
   - The mailing address for the place where the person died. This attribute is collected if the person died at a home, a health facility, or other location with a postal address.

**Location of Death example**

```xml
<?xml version="1.0" encoding="UTF-8"?>
<observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd"
  classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.4"/>
  <id root="558118750"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1"
    codeSystemName="LOINC" displayName="Location of Death"/>
  <text>Text Value</text>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</observation>
```
Manner of Death

[Observation: templateId 2.16.840.1.113883.10.20.24.1.7]

Information on the main categories in which death can occur.

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Manner of Death (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain zero or more [0..*] value (CodeSystem: OID TBD Manners Of Death), where its data type is CE
   - A coded indication of the manner in which the person died.

Manner of Death example

```xml
<?xml version="1.0" encoding="UTF-8"?>
<observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd" classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.7"/>
  <id root="754474112"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Manner of Death"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
  <value xsi:type="CE" code="Value"/>
</observation>
```

Other Significant Condition

[Observation: templateId null]

INLINE

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Other Significant Condition (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain exactly one [1..1] value, where its data type is ED
   - Descriptive text that provides information on a significant condition or conditions that contributed to death, but did not result in the underlying cause that is elsewhere described. In order to comply with NCHS edit specifications, the maximum length is 240 characters.

Other Significant Condition example
Pregnancy Status

Information on the pregnancy status of the diseased.

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.10.20.24.1.8)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="11449–6" Pregnancy Status (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain zero or more [0..*] value (CodeSystem: OID TBD Pregnancy Statuses), where its data type is CE
   • A code that provides information regarding whether or not the person was pregnant at the time of her death, or whether she was pregnant around the time of death. Required if the person is female and in the age range 5 to 75 years.

Pregnancy Status example

<?xml version="1.0" encoding="UTF-8"?>
<observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd"
classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.8"/>
  <id root="2093278797"/>
  <code code="11449-6" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Pregnancy Status"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
  <value xsi:type="CE" code="Value"/>
</observation>

Time of Death

Provide information about the decedent's date and time of death.

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.10.20.24.1.3)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="31211–6" Date of Death (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHOULD contain zero or one [0..1] effectiveTime
   • Provide the date and time of death if it is known.
5. MAY contain zero or one [0..1] text
   • Provide information relevant to the date/time of death in cases where the point in time can in no way be established.

Time of Death example

<?xml version="1.0" encoding="UTF-8"?>
Tobacco Use

[Observation: templateId 2.16.840.1.113883.10.20.24.1.9]

Information about the deceased's use of tobacco.

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Tobacco Use (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
   - A coded indication of the extent of the person's use of tobacco. The data is captured if tobacco use may have contributed to their death.
4. SHALL contain exactly one [1..1] value (CodeSystem: OID TBD Tobacco Use), where its data type is CE

Tobacco Use example

<?xml version="1.0" encoding="UTF-8"?>
<observation xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:hl7-org:v3" xsi:schemaLocation="urn:hl7-org:v3 CDA.xsd"
classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.24.1.9"/>
  <id root="1348899567"/>
  <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC" displayName="Tobacco Use"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
  <value xsi:type="CE" code="Value"/>
</observation>

Transportation Association

[Observation: templateId null]

INLINE

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Transportation Associated Injury (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain zero or more [0..*] value, where its data type is BL
  
  • A Boolean indicator (Yes/No) that tells whether the injury leading to death was associated with a transportation event. Required if the decedent suffered an injury leading to death.

**Transportation Association example**

**Transportation Relationship**

[Observation: templateId null]

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Injury Transportation Relationship (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain zero or more [0..*] value, where its data type is BL
  
  • A coded value that states, if the injury was related to transportation, the specific role played by the decedent, e.g. driver, passenger. Required if the decedent suffered an injury leading to death.

**Transportation Relationship example**

**Work Association**

[Observation: templateId null]

1. SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
2. SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
3. SHALL contain exactly one [1..1] code/@code="LOINC TBD" Work Associated Injury (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
4. SHALL contain zero or more [0..*] value, where its data type is BL
  
  • A Boolean indicator (Yes/No) that tells whether or not the injury occurred while the person was at work. Required if the decedent suffered an injury leading to death.

**Work Association example**
This section of the Implementation Guide describes other classes that are not CDA Clinical Documents, Sections, or Clinical Statements.

Topics:
- Assigned Author
- Assigned Custodian
- Author
- Authoring Person
- Autopsy Clinician
- Autopsy Performer
- Autopsy Performer Role
- Certification Performer
- Certifier Role
- Certifying Party
- Component Cause
- Component Death Cause
- Component Injury Information
- Component Other Significant Condition
- Component Transportation Association
- Component Transportation Relationship
- Component Work Association
- Custodian
- Custodian Organization
- Injury Location Role
- Location Participation
- Patient
- Person
- Place Of Injury
- Record Target
Assign Author

[AssignedAuthor: templateId null]

1. SHALL contain exactly one [1..1] @classCode="ASSIGNED"
   - INLINE
2. SHALL contain exactly one [1..1] id
3. SHALL contain exactly one [1..1] assignedPerson
   a. This assignedPerson SHALL contain zero or one [0..1] @classCode="PSN"
   b. This assignedPerson SHALL contain zero or one [0..1] @determinerCode="INSTANCE"
   c. This assignedPerson SHALL contain zero or more [0..*] name

Provide the name of the clinician authoring the report.

Assigned Author example

Assign Custodian

[AssignedCustodian: templateId null]

INLINE
1. Contains exactly one [1..1] representedCustodianOrganization
   a. This representedCustodianOrganization SHALL contain exactly one [1..1] name
   b. This representedCustodianOrganization SHALL contain exactly one [1..1] id

Assigned Custodian example

Author

[Author: templateId null]

INLINE
1. SHALL contain exactly one [1..1] @typeCode="AUT"
2. SHALL contain exactly one [1..1] time
   - The date/time of authorship is required by CDA. It may be set equal to the document creation date/time.
3. SHALL contain exactly one [1..1] assignedAuthor
   a. This assignedAuthor SHALL contain exactly one [1..1] @classCode="ASSIGNED"
      - INLINE
   b. This assignedAuthor SHALL contain exactly one [1..1] id
   c. This assignedAuthor SHALL contain exactly one [1..1] assignedPerson
      a. This assignedPerson SHALL contain zero or one [0..1] @classCode="PSN"
      b. This assignedPerson SHALL contain zero or one [0..1] @determinerCode="INSTANCE"
      c. This assignedPerson SHALL contain zero or more [0..*] name

Provide the name of the clinician authoring the report.

Author example
Authoring Person

[Person: templateId null]

INLINE
1. SHALL contain zero or one [0..1] @classCode="PSN"
2. SHALL contain zero or one [0..1] @determinerCode="INSTANCE"
3. SHALL contain zero or more [0..*] name
   • Provide the name of the clinician authoring the report.

Authoring Person example

Autopsy Clinician

[Person: templateId null]

INLINE
1. SHALL contain zero or one [0..1] @classCode="PSN"
2. SHALL contain zero or one [0..1] @determinerCode="INSTANCE"
3. SHALL contain exactly one [1..1] name
   • This field is valued with the authority who performed the autopsy.

Autopsy Clinician example

Autopsy Performer

[Performer2: templateId null]

INLINE
1. SHALL contain zero or one [0..1] @typeCode="PRF"
2. SHALL contain zero or one [0..1] assignedEntity
   a. This assignedEntity SHALL contain zero or one [0..1] @classCode="ASSIGNED"
   b. This assignedEntity contains zero or one [0..1] assignedPerson
      a. This assignedPerson SHALL contain zero or one [0..1] @classCode="PSN"
      b. This assignedPerson SHALL contain zero or one [0..1] @determinerCode="INSTANCE"
      c. This assignedPerson SHALL contain exactly one [1..1] name

Autopsy Performer example

Autopsy Performer Role

[AssignedEntity: templateId null]

INLINE
1. SHALL contain zero or one [0..1] @classCode="ASSIGNED"
2. Contains zero or one [0..1] assignedPerson
   a. This assignedPerson SHALL contain zero or one [0..1] @classCode="PSN"
   b. This assignedPerson SHALL contain zero or one [0..1] @determinerCode="INSTANCE"
   c. This assignedPerson SHALL contain exactly one [1..1] name

   This field is valued with the authority who performed the autopsy.

Autopsy Performer Role example

Certification Performer

[Performer2: templateId null]

INLINE
1. SHALL contain exactly one [1..1] @typeCode="PRF"
2. SHALL contain exactly one [1..1] assignedEntity
   a. This assignedEntity SHALL contain exactly one [1..1] @classCode="ASSIGNED"
   b. This assignedEntity SHALL contain exactly one [1..1] addr

   The postal address used to locate the clinician or coroner at the time of death certification. The element is required if the death has been certified.
   c. This assignedEntity SHALL contain exactly one [1..1] code (CodeSystem: OID TBD Certifier Types)

   A coded value that indicates the role played by the person certifying the death. E.g., coroner, physician.
   d. This assignedEntity SHALL contain exactly one [1..1] assignedPerson
      a. This assignedPerson SHALL contain exactly one [1..1] @classCode="PSN"
      b. This assignedPerson SHALL contain exactly one [1..1] @determinerCode="INSTANCE"
      c. This assignedPerson SHALL contain exactly one [1..1] name

   This field is valued with the person who signed the death certificate. The full name of the certifier is required. A value is required if the case has not been assigned to a coroner/medical examiner.

Certification Performer example

Certifier Role

[AssignedEntity: templateId null]

INLINE
1. SHALL contain exactly one [1..1] @classCode="ASSIGNED"
2. SHALL contain exactly one [1..1] addr
   • The postal address used to locate the clinician or coroner at the time of death certification. The element is required if the death has been certified.
3. SHALL contain exactly one [1..1] code (CodeSystem: OID TBD Certifier Types)
   • A coded value that indicates the role played by the person certifying the death. E.g., coroner, physician.
4. SHALL contain exactly one [1..1] assignedPerson
   a. This assignedPerson SHALL contain exactly one [1..1] @classCode="PSN"
   b. This assignedPerson SHALL contain exactly one [1..1] @determinerCode="INSTANCE"
   c. This assignedPerson SHALL contain exactly one [1..1] name
Certifier Role example

Certifying Party

[Person: templateId null]

INLINE

1. SHALL contain exactly one [1..1] @classCode="PSN"
2. SHALL contain exactly one [1..1] @determinerCode="INSTANCE"
3. SHALL contain exactly one [1..1] name
   • This field is valued with the person who signed the death certificate. The full name of the certifier is required. A value is required if the case has not been assigned to a coroner/medical examiner.

Certifying Party example

Component Cause

[Component4: templateId null]

INLINE

1. SHALL contain zero or one [0..1] @typeCode="COMP"
2. SHALL contain exactly one [1..1] sequenceNumber
3. SHALL contain zero or one [0..1] observation
   a. This observation SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
   b. This observation SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
   c. This observation SHALL contain exactly one [1..1] code/@code="21984-0" Cause of Death (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
   d. This observation SHALL contain exactly one [1..1] value, where its data type is ED

Descriptive text that indicates one or more diseases, injuries, or complications that were implicated as a cause of the person’s death. In order to comply with NCHS edit specifications, the maximum length is 120 characters. The immediate cause of death and the underlying cause of death must be reported. Additional causes of death up to two may be recorded. Death causes are ordered sequentially with the immediate cause of death given the sequence number "1", and the underlying cause of death being given the highest sequence number among the set of cited causes. Each cause of death is associated with a numeric observation Death Cause Interval which captures the approximate interval between the onset of the death cause (condition) and death. This linkage is implemented through the use of actRelationship.sequenceNumber.

Component Cause example

Component Death Cause Interval

[Component4: templateId null]

INLINE
1. **SHALL** contain zero or one [0..1] @typeCode="COMP"

2. **SHALL** contain zero or one [0..1] sequenceNumber

3. **SHALL** contain zero or one [0..1] observation
   a. This observation **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
   b. This observation **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
   c. This observation **SHALL** contain exactly one [1..1] code/@code="LOINC TBD" Death Cause Interval (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
   d. This observation **SHALL** contain zero or more [0..*] value, where its data type is ED

   A measure of the time interval between the onset of the disease, injury or complication, and the person's death. The data to be included will vary from statements of time intervals to text statements such as "many months", "days", "unknown". Each death cause interval value is associated with a cause of death observation Cause of Death - that identifies the condition associated with the time interval. This linkage is implemented through the use of actRelationship.sequenceNumber.

**Component Death Cause Interval example**

**Component Injury Information**

[Component4: templateId null]

**INLINE**

1. **SHALL** contain zero or one [0..1] @typeCode="COMP"

2. Contains zero or one [0..1] observation
   a. This observation **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
   b. This observation **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
   c. This observation **SHALL** contain exactly one [1..1] code/@code="LOINC TBD" Injury Resulting in Death (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
   d. This observation **MAY** contain zero or one [0..1] text

   A text description of how the injury occurred.
   e. This observation **SHALL** contain zero or more [0..*] value, where its data type is BL

   A Boolean indicator (Yes/No) that tells whether the death resulted from an injury.
   f. This observation **MAY** contain exactly one [1..1] participant
      a. This participant **SHALL** contain exactly one [1..1] @typeCode="LOC"
      b. This participant Contains zero or one [0..1] participantRole
         a. This participantRole **SHALL** contain exactly one [1..1] @classCode="ISDLOC"
         b. This participantRole **MAY** contain exactly one [1..1] addr

         The street address for the place where the injury occurred. Required if the decedent suffered an injury leading to death.
         c. This participantRole **MAY** contain zero or one [0..1] scopingEntity
            a. This scopingEntity **SHALL** contain zero or one [0..1] @classCode="PLC"
            b. This scopingEntity Contains zero or one [0..1] @determinerCode="INSTANCE"
            c. This scopingEntity **MAY** contain zero or one [0..1] desc
A description of the type of place where the injury occurred. Possible entries are "at home", "farm", "factory", "office building", "restaurant". Required if the decedent suffered an injury leading to death.

g. This observation MAY contain zero or one [0..1] effectiveTime

Component Injury Information example

**Component Other Significant Condition**

[Component4: templateId null]

INLINE

1. SHALL contain zero or one [0..1] @typeCode="COMP"
2. SHALL contain zero or one [0..1] observation
   a. This observation SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
   b. This observation SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
   c. This observation SHALL contain exactly one [1..1] code/@code="LOINC TBD" Other Significant Condition (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
   d. This observation SHALL contain exactly one [1..1] value, where its data type is ED

   Descriptive text that provides information on a significant condition or conditions that contributed to death, but did not result in the underlying cause that is elsewhere described. In order to comply with NCHS edit specifications, the maximum length is 240 characters.

Component Other Significant Condition example

**Component Transportation Association**

[Component4: templateId null]

INLINE

1. SHALL contain zero or one [0..1] @typeCode="COMP"
2. Contains zero or one [0..1] observation
   a. This observation SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
   b. This observation SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
   c. This observation SHALL contain exactly one [1..1] code/@code="LOINC TBD" Transportation Associated Injury (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
   d. This observation SHALL contain zero or more [0..*] value, where its data type is BL

   A Boolean indicator (Yes/No) that tells whether the injury leading to death was associated with a transportation event. Required if the decedent suffered an injury leading to death.

Component Transportation Association example
Component Transportation Relationship

[Component4: templateId null]

INLINE

1. SHALL contain zero or one [0..1] @typeCode="COMP"
2. SHALL contain zero or one [0..1] observation
   a. This observation SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
   b. This observation SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
   c. This observation SHALL contain exactly one [1..1] code/@code="LOINC TBD" Injury Transportation Relationship (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
   d. This observation SHALL contain zero or more [0..*] value, where its data type is BL

   A coded value that states, if the injury was related to transportation, the specific role played by the decedent, e.g. driver, passenger. Required if the decedent suffered an injury leading to death.

Component Work Association example

Component Work Association

[Component4: templateId null]

INLINE

1. SHALL contain zero or one [0..1] @typeCode="COMP"
2. MAY contain zero or one [0..1] observation
   a. This observation SHALL contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
   b. This observation SHALL contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
   c. This observation SHALL contain exactly one [1..1] code/@code="LOINC TBD" Work Associated Injury (CodeSystem: 2.16.840.1.113883.6.1 LOINC)
   d. This observation SHALL contain zero or more [0..*] value, where its data type is BL

   A Boolean indicator (Yes/No) that tells whether or not the injury occurred while the person was at work. Required if the decedent suffered an injury leading to death.

Component Work Association example

Custodian

[Custodian: templateId null]

INLINE

1. SHALL contain exactly one [1..1] assignedCustodian
   a. This assignedCustodian Contains exactly one [1..1] representedCustodianOrganization
      a. This representedCustodianOrganization SHALL contain exactly one [1..1] name
b. This represented Custodian Organization SHALL contain exactly one [1..1] id

Custodian example

Custodian Organization
[CustodianOrganization: templateId null]

1. SHALL contain exactly one [1..1] name
2. SHALL contain exactly one [1..1] id

Custodian Organization example

Injury Location Role
[ParticipantRole: templateId null]

INLINE

1. SHALL contain exactly one [1..1] @classCode="ISDLOC"
2. MAY contain exactly one [0..1] addr
   
   • The street address for the place where the injury occurred. Required if the decedent suffered an injury leading to death.
3. MAY contain zero or one [0..1] scopingEntity
   
   a. This scopingEntity SHALL contain zero or one [0..1] @classCode="PLC"
   b. This scopingEntity Contains zero or one [0..1] @determinerCode="INSTANCE"
   c. This scopingEntity MAY contain zero or one [0..1] desc

   A description of the type of place where the injury occurred. Possible entries are "at home", "farm", "factory", "office building", "restaurant". Required if the decedent suffered an injury leading to death.

Injury Location Role example

Location Participation
[Participant2: templateId null]

INLINE

1. SHALL contain exactly one [1..1] @typeCode="LOC"
2. Contains zero or one [0..1] participantRole
   
   a. This participantRole SHALL contain exactly one [1..1] @classCode="ISDLOC"
   b. This participantRole MAY contain exactly one [1..1] addr

   The street address for the place where the injury occurred. Required if the decedent suffered an injury leading to death.
   c. This participantRole MAY contain zero or one [0..1] scopingEntity

   a. This scopingEntity SHALL contain zero or one [0..1] @classCode="PLC"
   b. This scopingEntity Contains zero or one [0..1] @determinerCode="INSTANCE"
This scopingEntity MAY contain zero or one [0..1] desc

A description of the type of place where the injury occurred. Possible entries are "at home", "farm", "factory", "office building", "restaurant". Required if the decedent suffered an injury leading to death.

Location Participation example

Patient

1. SHALL contain exactly one [1..1] @classCode="PAT"
2. SHALL contain exactly one [1..1] id
   • It is expected that Social Security Number will be provided if it is available. The value "99999999" should be used for persons who do not have a social security number.
3. SHOULD contain exactly one [1..1] addr
   • Street address, city, state and zip code are expected.
4. SHALL contain exactly one [1..1] patient
   a. This patient SHALL contain exactly one [1..1] @classCode="PSN"
   b. This patient SHALL contain exactly one [1..1] @determinerCode="INSTANCE"
   c. This patient SHALL contain exactly one [1..1] administrativeGenderCode (CodeSystem: 2.16.840.1.113883.5.1 AdministrativeGenderCode)
   d. This patient SHOULD contain exactly one [1..1] birthTime
   e. This patient SHALL contain exactly one [1..1] name

Person

1. SHALL contain exactly one [1..1] @classCode="PSN"
2. SHALL contain exactly one [1..1] @determinerCode="INSTANCE"
3. SHALL contain exactly one [1..1] administrativeGenderCode (CodeSystem: 2.16.840.1.113883.5.1 AdministrativeGenderCode)
4. SHOULD contain exactly one [1..1] birthTime
5. SHALL contain exactly one [1..1] name

Person example

Place Of Injury

1. SHALL contain zero or one [0..1] @classCode="PLC"
2. Contains zero or one [0..1] @determinerCode="INSTANCE"

3. MAY contain zero or one [0..1] desc
   • A description of the type of place where the injury occurred. Possible entries are "at home", "farm", "factory", "office building", "restaurant". Required if the decedent suffered an injury leading to death.

Place Of Injury example

**Record Target**

[RecordTarget: templateId null]

INLINE

1. SHALL contain exactly one [1..1] @typeCode="RCT"
2. SHALL contain exactly one [1..1] patientRole
   a. This patientRole SHALL contain exactly one [1..1] @classCode="PAT"
   b. This patientRole SHALL contain exactly one [1..1] id
      • It is expected that Social Security Number will be provided if it is available. The value "99999999" should be used for persons who do not have a social security number.
   c. This patientRole SHOULD contain exactly one [1..1] addr
      • Street address, city, state and zip code are expected.
   d. This patientRole SHALL contain exactly one [1..1] patient
      a. This patient SHALL contain exactly one [1..1] @classCode="PSN"
      b. This patient SHALL contain exactly one [1..1] @determinerCode="INSTANCE"
      c. This patient SHALL contain exactly one [1..1] administrativeGenderCode (CodeSystem: 2.16.840.1.113883.5.1 AdministrativeGenderCode)
      d. This patient SHOULD contain exactly one [1..1] birthTime
      e. This patient SHALL contain exactly one [1..1] name

Record Target example
Chapter 6

VALUE SETS

Topics:

- Certifier Type Codes
- Certifier Types
- Manner Of Death Codes
- Manners Of Death
- Pregnancy Status Codes
- Pregnancy Statuses
- Tobacco Use
- Tobacco Use Codes
- Transportation Relationship Codes
- Transportation Relationships

The following tables summarize the value sets used in this Implementation Guide.
### Certifier Type Codes

<table>
<thead>
<tr>
<th>Concept Code</th>
<th>Concept Name</th>
<th>Code System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>Coronor</td>
<td>Certifier Types</td>
<td></td>
</tr>
<tr>
<td>CA</td>
<td>County Attorney</td>
<td>Certifier Types</td>
<td></td>
</tr>
<tr>
<td>ME</td>
<td>Medical Examiner</td>
<td>Certifier Types</td>
<td></td>
</tr>
<tr>
<td>NP</td>
<td>Nurse Practitioner</td>
<td>Certifier Types</td>
<td></td>
</tr>
<tr>
<td>PHY</td>
<td>Physician</td>
<td>Certifier Types</td>
<td></td>
</tr>
<tr>
<td>PA</td>
<td>Physician Assistant</td>
<td>Certifier Types</td>
<td></td>
</tr>
</tbody>
</table>

### Certifier Types

<table>
<thead>
<tr>
<th>Value Set</th>
<th>Certifier Types</th>
</tr>
</thead>
</table>

### Manner Of Death Codes

<table>
<thead>
<tr>
<th>Concept Code</th>
<th>Concept Name</th>
<th>Code System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Accident</td>
<td>Manners Of Death</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Could not be determined</td>
<td>Manners Of Death</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Homicide</td>
<td>Manners Of Death</td>
<td></td>
</tr>
<tr>
<td>N</td>
<td>Natural</td>
<td>Manners Of Death</td>
<td></td>
</tr>
</tbody>
</table>
## Manners Of Death

<table>
<thead>
<tr>
<th>Concept Code</th>
<th>Concept Name</th>
<th>Code System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOS</td>
<td>Not on Standard</td>
<td>Manners Of Death</td>
<td></td>
</tr>
<tr>
<td>NS</td>
<td>Not Specified</td>
<td>Manners Of Death</td>
<td></td>
</tr>
<tr>
<td>P</td>
<td>Pending Investigation</td>
<td>Manners Of Death</td>
<td></td>
</tr>
<tr>
<td>SI</td>
<td>Self Inflicted</td>
<td>Manners Of Death</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>Suicide</td>
<td>Manners Of Death</td>
<td></td>
</tr>
</tbody>
</table>

## Pregnancy Status Codes

<table>
<thead>
<tr>
<th>Value Set</th>
<th>Code System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PregnancyStatusCodes - (OID not specified)</td>
<td>Pregnancy Statuses - OID TBD</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Concept Code</th>
<th>Concept Name</th>
<th>Code System</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Not pregnant within the past year</td>
<td>Pregnancy Statuses</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Pregnant at the time of death</td>
<td>Pregnancy Statuses</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Not pregnant, but pregnant within 42 days of death</td>
<td>Pregnancy Statuses</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Not pregnant, but pregnant 43 days to 1 year before death</td>
<td>Pregnancy Statuses</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Unknown if pregnant within the past year</td>
<td>Pregnancy Statuses</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Not Applicable: Computer Generated</td>
<td>Pregnancy Statuses</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Not on Certificate</td>
<td>Pregnancy Statuses</td>
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### Pregnancy Statuses

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### Tobacco Use

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### Tobacco Use Codes

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<td>Code System</td>
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### Transportation Relationship Codes

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### Transportation Relationships

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MDHT Publication
REFERENCES

- LOINC®: Logical Observation Identifiers Names and Codes, Regenstrief Institute.
- Extensible Markup Language, www.w3.org/XML