Data Elements for Emergency Department Systems

Update and Revision

Kevin Coonan, MD
Background

• Published 1997

• Large consensus effort
  – 2 years
  – 35 professional societies
  – 12 federal agencies
  – Workshop with 160 participants

• Resulted in specification of ~275 data elements
New agenda items

• Bob Davis/NCHS – will review DEEDS s/p this meeting. Jan-08
• HL7 reorganization—Jim Case Q2
• Need to initiate DEEDS as HL7 project
• Open DEEDS to PC, CIC, PEDS, GAS, cardiology
Element specification included narrative definition, usage notes, discussion, data type, cardinality, fields, value sets and references.

- Used v2.3 data types and included implementation guide.
- ~170 new LOINC identifiers created.
  • Core of CDA H&P, used in AIS0004 (Clinical Reports)
Objectives (original)

• Provide uniformity for representation of data elements in hospital ED information systems
• Harmonize with existing standards
• Promote secondary use
Problems

- Value sets often use internal code set
- External code sets: ICD-9, NDC
- Viewed as an “ED only” specification
- Data types and specifications very database/version 2 specific
- LOINC codes need harmonization and refinement
Objectives (1.1)

- Data elements identifiers mapped to LOINC
- A few new elements
- Replace internal code sets with reference terminologies
- Explicitly NOT “ED only”
Objective 1.2

- Replace internal code sets with value sets drawn from reference terminologies.
- Add needed data elements
  - Some identified already
- Begin inclusion of other clinical domains
Long term update and revision road map

• Publication format to include HL7 Templates
• Inclusion of NEMSIS and other relevant data
• Normative value sets
New Project

• DEEDS serves as the *base* of a broader effort to build reusable clinical data definitions
  – detailed clinical models
  – archetypes
  – templates
• Project leadership?
• Facilitators?
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