

**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

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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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Rev	Date	By Whom	Changes
New	January 2012	Mead Walker	
First draft for posting	March 2012	Mead Walker	Updated model content and publication format





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# Chapter 1

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## INTRODUCTION

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### Topics:

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

## Overview

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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

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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

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

## Audience

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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

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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](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

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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

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### 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

[<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](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).
2. A problem observation **SHALL** include exactly one Observation / statusCode. (CONF: 815).
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.

```
<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.



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# Chapter

# 2

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## DOCUMENT TEMPLATES

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### 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

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[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 version="1.0" encoding="UTF-8"?>
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns="urn:hl7-org:v3" 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>
    <assignedCustodian>
      <representedCustodianOrganization>
        <id root="1288898110"/>
        <name/>
      </representedCustodianOrganization>
```

```

    </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="1238895675"/>
              <assignedPerson classCode="PSN" determinerCode="INSTANCE">
                <name/>
              </assignedPerson>
            </assignedAuthor>
          </author>
          <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>
            <observation classCode="OBS" moodCode="EVN">
              <realmCode/>
              <templateId root="2.16.840.1.113883.10.20.24.1.4"/>
              <id root="540569533"/>
              <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>
              <languageCode/>
              <author typeCode="AUT">
                <time/>
                <assignedAuthor classCode="ASSIGNED">
                  <id root="192311532"/>
                  <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
                </assignedAuthor>
              </author>
            </observation>
          </entry>
        </section>
      </component>
    </structuredBody>
  </component>
</component>

```

```

    <entry>
      <observation>
        <realmCode/>
        <templateId root="2.16.840.1.113883.10.20.24.1.5"/>
        <id root="2022480741"/>
        <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>
        <languageCode/>
        <author typeCode="AUT">
          <time/>
          <assignedAuthor classCode="ASSIGNED">
            <id root="1308765660"/>
            <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
          </assignedAuthor>
        </author>
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <realmCode/>
        <templateId root="2.16.840.1.113883.10.20.24.1.7"/>
        <id root="570353122"/>
        <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>
        <languageCode/>
        <author typeCode="AUT">
          <time/>
          <assignedAuthor classCode="ASSIGNED">
            <id root="1271737594"/>
            <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
          </assignedAuthor>
        </author>
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <realmCode/>
        <templateId root="2.16.840.1.113883.10.20.24.1.8"/>
        <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"/>
          </assignedAuthor>
        </author>
      </observation>
    </entry>
  </entry>

```

```

    <observation classCode="OBS" moodCode="EVN">
      <realmCode/>
      <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"/>
      <effectiveTime>
        <low value="2012"/>
        <high value="2012"/>
      </effectiveTime>
      <languageCode/>
      <author typeCode="AUT">
        <time/>
        <assignedAuthor classCode="ASSIGNED">
          <id root="2107805654"/>
          <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
        </assignedAuthor>
      </author>
    </observation>
  </entry>
  <entry>
    <organizer classCode="CLUSTER" moodCode="EVN">
      <realmCode/>
      <templateId root="2.16.840.1.113883.10.20.24.1.10"/>
      <id root="926722780"/>
      <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>
      <author typeCode="AUT">
        <time/>
        <assignedAuthor classCode="ASSIGNED">
          <id root="843437084"/>
          <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
        </assignedAuthor>
      </author>
    </organizer>
  </entry>
  <entry>
    <organizer classCode="CLUSTER" moodCode="EVN">
      <realmCode/>
      <templateId root="2.16.840.1.113883.10.20.24.1.6"/>
      <id root="283013790"/>
      <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>
      <author typeCode="AUT">
        <time/>
        <assignedAuthor classCode="ASSIGNED">
          <id root="481608318"/>
          <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
        </assignedAuthor>
      </author>
    </organizer>
  </entry>
  <entry>
    <observation classCode="OBS" moodCode="EVN">

```

```

    <realmCode/>
    <templateId root="2.16.840.1.113883.10.20.24.1.11"/>
    <id root="743126686"/>
    <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>
    <languageCode/>
    <author typeCode="AUT">
      <time/>
      <assignedAuthor classCode="ASSIGNED">
        <id root="1942048425"/>
        <assignedPerson classCode="PSN" determinerCode="INSTANCE"/>
      </assignedAuthor>
    </author>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <realmCode/>
    <templateId root="2.16.840.1.113883.10.20.24.1.13"/>
    <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="2.16.840.1.113883.10.20.24.1.12" />
<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 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"/>
```



```

    <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="1774271031"/>
    <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"/>

```

```

    <high value="2012"/>
  </effectiveTime>
</observation>
</entry>
<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>
  <organizer classCode="CLUSTER" moodCode="EVN">
    <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>
<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>
<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>
<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>
</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 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 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" />
```



```

<statusCode code="completed"/>
<effectiveTime>
  <low value="2012"/>
  <high value="2012"/>
</effectiveTime>
<component typeCode="COMP">
  <sequenceNumber value="1"/>
  <observation classCode="OBS" moodCode="EVN">
    <code code="21984-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Cause of Death"/>
    <value xsi:type="ED">Text Value</value>
  </observation>
</component>
<component typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Other Significant Condition"/>
    <value xsi:type="ED">Text Value</value>
  </observation>
</component>
<component typeCode="COMP">
  <sequenceNumber value="1"/>
  <observation classCode="OBS" moodCode="EVN">
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Death Cause Interval"/>
    <value xsi:type="ED">Text Value</value>
  </observation>
</component>
</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 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" displayName="Coroner Assignment"/>
  <effectiveTime>
    <low value="2012"/>
    <high value="2012"/>
  </effectiveTime>
</observation>

```

```

</effectiveTime>
<value xsi:type="BL"/>
</observation>

```

## Coroner Referral

---

[Observation: templateId 2.16.840.1.113883.10.20.24.1.14]

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 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

---

[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="21984-0"** *Cause of Death* (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 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]

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" *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 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

[Organizer: templateId 2.16.840.1.113883.10.20.24.1.10]

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 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**
6. **MAY** contain zero or one [0..1] **component**
- a. This component **SHALL** contain zero or one [0..1] **@typeCode= "COMP"**
  - b. This component **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.*
7. **MAY** 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"** *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.*
8. **MAY** 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"** *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.*

vsdr::Injury							
cda::organizer[cda:templateId/@root = 2.16.840.1.113883.10.20.24.1.10]/							
Name	XPath	Cardinality	Severity	Nullable	Data Type	Conformance	Value(s)
classCode	@classCode	1..1	SHALL	NO	x_ActClassDocumentEntryOrganizer		BATTERY
moodCode	@moodCode	1..1	SHALL	NO	ActMood		APT
nullFlavor	@nullFlavor	0..1		NO	NullFlavor		ASKU
code	code	1..1	SHALL	NO	CD		LOINC 2.16.840.1.113883.6.1 LOINC TBD
effectiveTime	effectiveTime	0..1		YES	IVL_TS		
id	id	0..*		YES	II		
realmCode	realmCode	0..*		YES	CS		
statusCode	statusCode	1..1	SHALL	YES	CS		HL7ActStatus 2.16.840.1.113883.5.14
templateId	templateId	0..*		YES	II		2.16.840.1.113883.10.20.24.1.10
author	author	0..*		YES	Author		
component	component	0..*		YES	Component4		
componentInjuryInformation	componentInjuryInformation		SHALL	YES	ComponentInjuryInformation		
componentTransportationAssociation	componentTransportationAssociation		MAY	YES	ComponentTransportationAssociation		
componentTransportationRelationship	componentTransportationRelationship		MAY	YES	ComponentTransportationRelationship		
componentWorkAssociation	componentWorkAssociation		MAY	YES	ComponentWorkAssociation		
informant	informant	0..*		YES	Informant12		
participant	participant	0..*		YES	Participant2		
performer	performer	0..*		YES	Performer2		
precondition	precondition	0..*		YES	Precondition		
reference	reference	0..*		YES	Reference		
specimen	specimen	0..*		YES	Specimen		
subject	subject	0..1		YES	Subject		
typeId	typeId	0..1		YES	InfrastructureRootTypeId		

### Injury example

```
<?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" />
```

```

<id root="1511733761" />
<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>
<component typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Injury Resulting in Death" />
    <text>Text Value</text>
    <effectiveTime>
      <low value="2012" />
      <high value="2012" />
    </effectiveTime>
    <value xsi:type="BL" />
    <participant typeCode="LOC">
      <participantRole classCode="ISDLOC">
        <addr />
        <scopingEntity classCode="PLC" determinerCode="INSTANCE" />
      </participantRole>
    </participant>
  </observation>
</component>
<component typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Work Associated Injury" />
    <value xsi:type="BL" />
  </observation>
</component>
<component typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Transportation Associated Injury" />
    <value xsi:type="BL" />
  </observation>
</component>
<component typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <code code="LOINC TBD" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Injury Transportation Relationship" />
    <value xsi:type="BL" />
  </observation>
</component>
</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 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>
```



```

</effectiveTime>
<value xsi:type="AD"/>
</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 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

---

[Observation: templateId 2.16.840.1.113883.10.20.24.1.8]

Information on the pregnancy status of the diseased.

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="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

---

[Observation: templateId 2.16.840.1.113883.10.20.24.1.3]

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

1. **SHALL** contain exactly one [1..1] **@classCode="OBS"** *Observation* (CodeSystem: 2.16.840.1.113883.5.6 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="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 informamtion 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"?>
```

```
<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="2.16.840.1.113883.10.20.24.1.3" />
  <id root="1690626722" />
  <code code="31211-6" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Date of Death" />
  <text>Text Value</text>
  <effectiveTime>
    <low value="2012" />
    <high value="2012" />
  </effectiveTime>
</observation>
```

## 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

---

# Chapter

# 5

---

## OTHER CLASSES

---

### 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 Interval*
- *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*

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

## Assigned 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

## Assigned 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**

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

**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**



*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.*

#### 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 Transportation Relationship 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 representedCustodianOrganization **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 [1..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"**

- 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.*

### Location Participation example

## Patient

---

[PatientRole: templateId null]

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`

### Patient example

## Person

---

[Patient: 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] `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

---

[Entity: templateId null]

INLINE

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

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[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





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# Chapter

# 6

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## VALUE SETS

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### 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

Value Set	CertifierTypeCodes - (OID not specified)
Code System	Certifier Types - OID TBD

Concept Code	Concept Name	Code System	Description
C	Coronor	Certifier Types	
CA	County Attorney	Certifier Types	
ME	Medical Examiner	Certifier Types	
NP	Nurse Practitioner	Certifier Types	
PHY	Physician	Certifier Types	
PA	Physician Assistant	Certifier Types	

## Certifier Types

Value Set	Certifier Types
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## Manner Of Death Codes

Value Set	MannerOfDeathCodes - (OID not specified)
Code System	Manners Of Death - OID TBD

Concept Code	Concept Name	Code System	Description
A	Accident	Manners Of Death	
C	Could not be determined	Manners Of Death	
H	Homicide	Manners Of Death	
N	Natural	Manners Of Death	

Concept Code	Concept Name	Code System	Description
NOS	Not on Standard	Manners Of Death	
NS	Not Specified	Manners Of Death	
P	Pending Investigation	Manners Of Death	
SI	Self Inflicted	Manners Of Death	
S	Suicide	Manners Of Death	

## Manners Of Death

Value Set	Manners Of Death
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## Pregnancy Status Codes

Value Set	PregnancyStatusCodes - (OID not specified)
Code System	Pregnancy Statuses - OID TBD

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

## Pregnancy Statuses

Value Set	Pregnancy Statuses
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## Tobacco Use

Value Set	Tobacco Use
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## Tobacco Use Codes

Value Set	TobaccoUseCodes - (OID not specified)
Code System	Tobacco Use - OID TBD

Concept Code	Concept Name	Code System	Description
N	No	Tobacco Use	
P	Probable	Tobacco Use	
Y	Yes	Tobacco Use	
U	Unknown	Tobacco Use	
C	Not on Certificate	Tobacco Use	

## Transportation Relationship Codes

Value Set	TransportationRelationshipCodes - (OID not specified)
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Concept Code	Concept Name	Code System	Description
D	Driver or Operator		
PA	Passenger		
PE	Pedestrian		

## Transportation Relationships

Value Set	Transportation Relationships
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## REFERENCES

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- [LOINC®](#) : Logical Observation Identifiers Names and Codes, Regenstrief Institute.
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- Dolin RH, Alschuler L, Boyer S, Beebe C, Behlen FM, Biron PV, Shabo A., HL7 Clinical Document Architecture, Release 2. J Am Med Inform Assoc. 2006;13:30-39. Available at: <http://www.jamia.org/cgi/reprint/13/1/30> .

