



**HL7 Draft Standard for Trial Use  
Implementation Guide for CDA Release 2:  
Birth and Fetal Death Report, Release 1  
HL7 DSTU Ballot**

**Sponsored By:  
Public Health and Emergency Response Work Group**

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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\*](#)
- [\*Extending CDA R2\*](#)
- [\*Conventions Used in This Guide\*](#)

## Overview

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This implementation guide provides a format for using HL7's Clinical Document Architecture to transmit medical/health information on live births and fetal deaths from birthing facilities and centers to a jurisdictional vital records electronic registration system. Vital Records birth certificates and fetal death reports include important demographic, medical and key information about the antepartum period, the labor and delivery process and the newborn or fetus. Medical and health information collected from Electronic Health Record (EHR) and data for the birth certificate and fetal death report once gathered, can be provided to public health agencies to track maternal and infant health populations of interest.

The document has been generated through creation of a UML model created to support CDA Release 2. The model exists within the environment created by the Open Health Tools (OHT) Model-Driven Health Tools (MDHT) project. This document was generated from the model using the features of the toolkit.

## Approach

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The document focuses on the use case describing the communication of that portion of the birth record or fetal death report 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 in Electronic Birth Registration Systems (EDRS). For fetal death reporting, the use case does not preclude medical examiners from using EHRs as a primary source for some of the clinical data that may be transmitted to an EDRS.

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 live birth or fetal death information are to be completed by the medical certifier according to the Edit Specifications for the U.S. Standard Certificate of Live Birth, or the US Standard Report of Fetal Death.. The applicable jurisdiction may have additional data requirements and edit specifications that will be addressed at the jurisdictional level.

The implementation guide has been developed with a primary reference to documentation created by the National Center for Health Statistics (CDC-NCHS). Content has been drawn from:

- US Standard Certification of Live Birth, Revised 11/2003
- US Standard Report of Fetal Death, Revised 11/2003
- Facility Worksheet for the Live Birth Certificate, Final 2/5/04
- Facility Worksheet for the Report of Fetal Death, Final 2/5/04
- Birth Edit Specifications for the 2003 Proposed Revision of the US Standard Certificate of Birth, (5/2004)
- Guide to Completing the Facility Worksheets for the Certificate of Live Birth and Report of Fetal Death, 2003 revision (Updated March 2012)

It is expected that electronic health record systems that provide data for inclusion within clinical documents conformant to this implementation guide, may use the IHE (Interconnecting the Healthcare Enterprise) Birth and Fetal Death Reporting (BFDR) technical framework supplement as a guide to extracting the data. Therefore, we have sought to organize sections within this document, both to reflect the organization of the Facility Worksheets, and to correspond to the BFDR document. References to the corresponding IHE data structure will be provided where relevant.

## Relationship to C-CDA

We have also used HL7's consolidated CDA (C-CDA) as a point of reference for developing the templates used within this guide. However, the focus of the reporting is rather different from that in the C-CDA documents: those provide an open structure to allow clinicians to record relevant data for patient care across a wide range of institutional settings, while birth and fetal death reporting address a constrained data set whose content is tailored to the

specific needs of vital statistics. As a result, it was only possible to draw upon a few of the templates created for C-CDA. The descriptions of individual templates touch on their relationship to C-CDA where appropriate.

## Standard Vocabulary

This guide calls for specific vocabulary standards for managing live birth and fetal death reporting information. Use of standard vocabularies is important for a number of reasons. Use of standard vocabularies allows broad distribution of healthcare information without the need for individual institutions to exchange master files for data such as test codes, result codes, etc. Each institution maps its own local vocabularies to the standard code, allowing information to be shared broadly, rather than remaining isolated as a single island of information.

## Scope

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This specification covers the provision of live birth and fetal death reporting data to the applicable jurisdictional Vital Records Office. The guide focuses on the use case describing the form and content of that portion of the record collected by electronic health record systems for transmission to state/jurisdictional vital record offices. The goal of the use case is to provide safe, reliable delivery of relevant clinical information to vital records. The use case does not cover the data that is reported by the mother, or in the case of fetal death, by the funeral director. The use case covers events that are recorded by a birthing facility in an EHR. Planned or unplanned home births are generally not recorded by the hospital unless the mother is taken there immediately after birth for emergency medical care, and even in these cases, the home birth is usually filed by the home birth attendant. This use case is not intended to cover reporting to national public health agencies such as NCHS."

The following use case provides a common scenario for the recording of birth and fetal death events in a birthing hospital. For the birth record, prenatal care and pregnancy history information, such as the mother's last menstrual period (LMP), are obtained from the mother's prenatal records which are sent to the hospital by the prenatal care provider prior to the mother's estimated delivery date. Information about the labor and delivery and the infant (e.g., a spontaneous vaginal delivery of a girl weighing 3,242 grams) is documented by the nurse in the hospital's labor and delivery (L&D) log. Information about the labor and delivery and the newborn to be collected for the birth record is also documented by the nurse in the Facility Worksheet for the Child's Birth Certificate. The pediatrician documents the physical assessment in the newborn's medical record and the nurse then completes the newborn information sections of the Facility Worksheet.

The birth information specialist (BIS), the hospital staff person responsible for gathering and entering information for the birth certificate, checks the hospital's information system for a list of all new births. The staff person prints a copy of the list and takes it to the L&D unit where they pick up the Facility Worksheet completed by the nurse. The BIS then goes to the mother's room and presents her with a packet of information and several forms to complete. One of the forms, called the Mother's Worksheet for the Child's Birth Certificate, collects important demographic information on the mother and father. The BIS helps the mother complete the Mother's Worksheet. The BIS reviews the Facility Worksheet for completeness. If a section has not been completed, the L&D log, mother's prenatal care and other medical records are reviewed for the required information. If necessary, the prenatal care provider is called in order to supply more information.

The BIS may enter the information from the Mother's and Facility worksheets into the State's web-based Electronic Birth Registration System (EBRS). At the time of data entry, the EBRS performs field edits and cross-field edits that are pre-programmed into the system. Once the record "passes" all validations, the BIS submits the record to the state for registration. The birth record is then automatically transmitted over a secure Internet connection to the State Office of Vital Records.

The vital records registrar reviews a list of newly transmitted birth records received from birthing facilities around his state. If there are records that have not passed all edits, the registrar contacts the hospital and requests that they correct and retransmit the birth record. The hospital corrects the birth record and retransmits. Once the birth record has passed all edits, the vital records registrar registers the baby's birth and the mother is provided with a certified copy of the birth certificate on request.

The process of collecting information at the hospital for the fetal death report is similar to that for birth. The labor and delivery nurse enters information in the medical records and completes the Facility Worksheet. The BIS is responsible for gathering and entering information into the Electronic Fetal Death Registration System (EFDRS) for the fetal

death report. The nurse first checks the hospital's information system and learns about the mother's loss. The BIS obtains the completed Facility Worksheet from the nurse and helps the mother complete the Patient's Worksheet. The BIS may also contact the prenatal care provider to obtain the Mother's prenatal care information and the obstetrician to enter the cause of death in the system.

The hospital of birth will serve as the source for information drawn from the mother's and infant's electronic medical record. This data may be directly entered by the responsible person. Data items may also be extracted from the electronic record system used to support patient medical records. In such cases, we expect the IHE (Interconnecting the Health Enterprise) specifications for Labor and Delivery Profiles to be useful.

## Audience

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The audience for this document includes software developers and implementers who wish to develop specifications for reporting the vital records birth and fetal death information defined within this document.

## 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

The Implementation Guide provides definition for the vocabulary items that are needed as content for those elements using coded data types. The use of coded types, and the precise expression of the valid content of code sets is essential to enable efficient processing of subject data report content, and to allow the proper use of the contained data. Within this guide, the vocabulary section documents the various act code values used to define structural elements - to identify particular acts or observations. It also defines the several value sets needed to constrain the semantic content of coded items. In principle, all the vocabulary needed to support subject data reporting would draw on a common set of concepts. This has been done wherever possible, and the Public Health Information Network (PHIN) Vocabulary Access and Distribution System (VADS) is used as the repository and source for the commonly agreed upon vocabulary items.

In a number of cases, the NCVS edit specifications for data collection allow the entry of "UNKNOWN" to represent the case in which desired information is not available. This concept is captured, within this implementation guide, through use of the nullFlavor - UNK".

Throughout this Implementation Guide, the bindings between coded attributes and the cited value sets are static, and the value sets are versioned as of the date of guide publication. If it proves necessary to make changes to these value sets, this will be recorded, either through published errata, or through issuing an updated version of the document.

## Use of Templates

---

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

## Originator Responsibilities

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

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

## Recipient Responsibilities

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

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

## Extending CDA R2

---

Where there is a need to communicate information for which there is no suitable representation in CDA R2, extensions to CDA R2 have been developed. This section serves to summarize the extensions to provide implementation guidance. Elements containing extensions are documented within the template where they are used. Note, it has not been necessary to define extensions beyond those already created by the HL7 Structured Documents Work Group. In order to take advantage of these features, it is helpful to use the schemas, `SDTC.xsd`, `CDA_SDTC.xsd`, and `POCD_MT000040_SDTC`, that have been distributed as part of the Consolidated CDA distribution. It will also be necessary to declare the "sdtc" namespace that is used for this extension.

Extensions used within this implementation guide include:

- **sdct:id** CDA R2 does not include an identifier for the subject of a section. The identifier has been added to allow the medical record number assigned to a newborn to be recorded.

## 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 (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

---

# Chapter

# 2

---

## DOCUMENT TEMPLATES

---

### Topics:

- [\*Reporting Birth Information from a clinical setting to vital records\*](#)
- [\*Reporting Fetal Death Information from a clinical setting to vital records\*](#)

This section contains the document level constraints for CDA documents that are compliant with this implementation guide.

## Reporting Birth Information from a clinical setting to vital records

[ClinicalDocument: templateId 2.16.840.1.113883.10.20.26.1]

*The document definition captures the information represented on the US Facility Worksheet for the Live Birth Certificate, which is used to record and register the birth of a child. In the United States, registration of vital events is the responsibility of 57 vital records jurisdictions representing 50 states, 5 territories, Washington, DC and New York City. Vital statistics are reported to the National Center for Health Statistics, a Center within the Centers for Disease Control and Prevention (CDC). The experience of state and federal vital records officials has been drawn on for the contents of the document.*

*A custom header has been used - as compared to the Consolidated US Realm header - because of the substantial differences in the underlying use case. For vital records purposes, basic identification only of the record target is provided. However, the more detailed demographics information required for Consolidated CDA is not included within the facilities work sheet which provides the data content of this stream of reporting.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.1"
2. Contains exactly one [1..1] **@classCode**="DOCCLIN" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
  - *The code value indicates this is a clinical document.*
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:4)
  - *The value indicates the included information refers to an existing document - as opposed to an intended one.*
4. **SHALL** contain exactly one [1..1] **realmCode** (CONF:1)/**@code**="USA" (CodeSystem: 1.0.3166.1 Country (ISO 3166-1)) (CONF:2)
  - *The realm that the document is relevant for. This specification is a US realm product.*
5. **SHALL** contain exactly one [1..1] **typeId** (CONF:3)
  - *Type ID root = 2.16.840.1.113003.1.3.  
Type ID extension = "POCD\_HD000040.*
6. **SHALL** contain exactly one [1..1] **id** (CONF:5)
  - *Provide the identifier assigned to the document by the healthcare provider acting as a custodian of the information. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*
7. **SHALL** contain exactly one [1..1] **code** (CONF:6)/**@code**="68998-4" U.S. standard certificate of live birth - 2003 revision (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:7)
  - *The value provided indicates that the document is a live birth report.*
8. **SHALL** contain exactly one [1..1] **title** (CONF:8)
  - *A text title for the document. The title may be either a locally defined name or the display name corresponding to clinicalDocument/code.*
9. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:9)
  - *The point in time the document was created at.*
10. **SHALL** contain exactly one [1..1] **confidentialityCode** (CONF:10), which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.5.25 Confidentiality) (CONF:11)
  - *An indication of the level of confidentiality with which the document needs to be managed.*
11. **SHALL** contain exactly one [1..1] **languageCode** (CONF:12)
  - *The language used for recording information within the document.*
12. **SHALL** contain exactly one [1..1] **recordTarget** (CONF:13)

*Information to identify the mother of the child.*

- a. This recordTarget **SHALL** contain exactly one [1..1] @typeCode="RCT" (CONF:23)
- b. This recordTarget **SHALL** contain exactly one [1..1] patientRole (CONF:24)
  - a. This patientRole **SHOULD** contain zero or one [0..1] addr (CONF:25)

*The current postal address for the mother.*

- b. This patientRole **SHALL** contain exactly one [1..1] @classCode="PAT" (CONF:28)
- c. This patientRole **SHALL** contain exactly one [1..1] id (CONF:26)

*The medical record number assigned to the mother by the health care facility. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*

- d. This patientRole **SHALL** contain exactly one [1..1] patient (CONF:27)
  - a. This patient **SHALL** contain exactly one [1..1] @classCode="PSN" (CONF:29)
  - b. This patient **SHALL** contain exactly one [1..1] @determinerCode="INSTANCE" (CONF:30)
  - c. This patient **SHALL** contain exactly one [1..1] name (CONF:31)

*The name of the mother.*

- 13. **SHALL** contain exactly one [1..1] author (CONF:14)

*The author participation contains information about the person who authored the document. This is the person who verifies/approves the accuracy of the data to be sent to the vital records system.*

- a. This author Contains exactly one [1..1] @typeCode="AUT"
- b. This author **SHALL** contain exactly one [1..1] assignedAuthor (CONF:21)
  - a. This assignedAuthor **SHALL** contain exactly one [1..1] @classCode="ASSIGNED" (CONF:448)
  - b. This assignedAuthor **SHALL** contain exactly one [1..1] id (CONF:22)

*An identifier for the author of the live birth report. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*

- 14. **SHALL** contain exactly one [1..1] custodian (CONF:15)

*The custodian represents the organization that is in charge of maintaining the document. The custodian is the steward that is entrusted with the care of the document. Every CDA document has exactly one custodian.*

- a. This custodian **SHALL** contain exactly one [1..1] @typeCode="CST" (CONF:32)
- b. This custodian **SHALL** contain exactly one [1..1] assignedCustodian (CONF:33)
  - a. This assignedCustodian **SHALL** contain exactly one [1..1] @classCode="ASSIGNED" (CONF:34)
  - b. This assignedCustodian Contains exactly one [1..1] representedCustodianOrganization
    - a. This representedCustodianOrganization **SHALL** contain exactly one [1..1] @classCode="ORG" (CONF:35)
    - b. This representedCustodianOrganization **SHALL** contain exactly one [1..1] @determinerCode="INSTANCE" (CONF:36)
    - c. This representedCustodianOrganization **SHALL** contain exactly one [1..1] id (CONF:37)

*An identifier for the custodian organization. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*

- 15. **SHALL** contain exactly one [1..1] component (CONF:16)

- a. Contains exactly one [1..1] [Prenatal Testing and Surveillance Section](#) (templateId: 2.16.840.1.113883.10.20.26.3)

- 16. **SHALL** contain exactly one [1..1] component (CONF:17)

- a. Contains exactly one [1..1] [Prior Pregnancy History Section](#) (templateId: 2.16.840.1.113883.10.20.26.12)

**17. SHALL** contain exactly one [1..1] **component** (CONF:447)

- a. Contains exactly one [1..1] *History of Infection: Live Birth Section* (templateId: 2.16.840.1.113883.10.20.26.5)

**18. SHALL** contain exactly one [1..1] **component** (CONF:20)

- a. Contains exactly one [1..1] *Labor and Delivery Section* (templateId: 2.16.840.1.113883.10.20.26.8)

**19. SHALL** contain exactly one [1..1] **component** (CONF:19)

- a. Contains exactly one [1..1] *Newborn Delivery Section* (templateId: 2.16.840.1.113883.10.20.26.10)

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="CDA.xsl"?>
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/
voc" xmlns:sdtc="urn:hl7-org:sdtc" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 CDA_SDTc.xsd"
  classCode="DOCCLIN" moodCode="EVN">
  <!--
  *****
  CDA Header
  *****
  -->
  <realmCode code="US"/>
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
  <templateId root="2.16.840.1.113883.10.20.26.1"/>
  <!-- conforms to the guidance of the IG -->
  <id root="1.22.33" extension="0810USA04591"/>
  <!-- Vital Records document identifier. Root = OID chosen by the sender.
  -->
  <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
  code="68998-4" displayName="US standard certificate of live birth"/>
  <title>Birth Report</title>
  <!-- Title of the report-->
  <effectiveTime value="20121010"/>
  <!-- Date the report was prepared -->
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
  <!--Confidentiality is a contextual component of CDA, where the value
  expressed in the header holds true for the entire document, unless
  overridden by a nested value and 2.16.840.1.113883.5.25 is the OID for
  HL7-->
  <languageCode code="en-US"/>
  <!--LanguageCode example with language and country-->
  <!--
  *****
  CDA Header: Participants
  *****
  -->
  <recordTarget typeCode="RCT">
  <!--The record target includes information regarding the mother.-->
  <patientRole classCode="PAT">
  <id root="2.33.44" extension="V000-013-0001-0002"/>
  <!-- Mother's Medical Record Number. The root OID for the identifier
  indicates the name space the identifier value is drawn from. -->
  <addr>
  <streetAddressLine>23 Anywhere Lane</streetAddressLine>
  <city>Metropolis</city>
  <state>Empire State</state>
  <postalCode>893442</postalCode>
  </addr>
  <patient classCode="PSN" determinerCode="INSTANCE">
```

```

    <name>
      <family>Mother's family name</family>
      <given>Mother's given Name</given>
    </name>
  </patient>
</patientRole>
</recordTarget>
<!--
*****
    CDA Header: The Author of the Patient Narrative Document
    *****
-->
<author typeCode="AUT">
  <time nullFlavor="NI"/>
  <assignedAuthor classCode="ASSIGNED">
    <id extension="300-23"/>
    <!-- Document Author identifier. The root OID for the document author
    identifier indicates the name space the identifier value is drawn from. -->
  </assignedAuthor>
</author>
<custodian typeCode="CST">
  <assignedCustodian classCode="ASSIGNED">
    <representedCustodianOrganization classCode="ORG"
    determinerCode="INSTANCE">
      <id root="2.77.38.4" extension="ABX_44445USA"/>
      <!-- Document Custodian identifier. The root OID for the custodian
      identifier indicates the name space the identifier value is drawn from. -->
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
<!--
*****
Birth Report Content (CDA BODY)
*****
-->
<component>
  <structuredBody>
    <!--
    *****
    Prenatal Testing and Surveillance Section
    *****
    -->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.3"/>
        ...
      </section>
    </component>
    <!--
    *****
    Prior Pregnancy History Section
    *****
    -->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.12"/>
        ...
      </section>
    </component>
    <!--
    *****
    History of Infection Section
    *****
    -->

```

```

    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.5"/>
        ...
      </section>
    </component>
    <!--
    *****
Labor and Delivery Section
*****
-->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.8"/>
        ...
      <!--
    *****
Labor and Delivery Procedure Section
*****
-->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.7"/>
        ...
      </section>
    </component>
    <!--
    *****
Mother's Vital Signs Section
*****
-->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.14"/>
        ...
      </section>
    </component>
  </section>
</component>
<!--
    *****
Newborn Delivery Section
*****
-->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.10"/>
        ...
      <!--
    *****
Newborn's Vital Signs Section
*****
-->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.11"/>
        ...
      </section>
    </component>
    <!--
    *****
Assessment Section
*****
-->

```

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.2.8"/>
    <templateId root="2.16.840.1.113883.10.20.26.9"/>
    ...
  </section>
</component>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>

```

## Reporting Fetal Death Information from a clinical setting to vital records

[ClinicalDocument: templateId 2.16.840.1.113883.10.20.26.2]

*The document definition captures the information represented on the US Facility Worksheet for the Report of Fetal Death, which is used to record and register the birth of a child. In the United States, registration of vital events is the responsibility of 57 vital records jurisdictions representing 50 states, 5 territories, Washington, DC and New York City. Vital statistics are reported to the National Center for Health Statistics, a Center within the Centers for Disease Control and Prevention (CDC). The experience of state and federal vital records officials has been drawn on for the contents of the document.*

*The 1992 Revision of the Model State Vital Statistics Act and Regulations (1) recommends the following definition of fetal death. This definition is based on the definition promulgated by the World Health Organization in 1950 and revised in 1988 by a working group formed by the American Academy of Pediatrics and the American College of Obstetricians and Gynecologists (2). The revision added clarifiers to help determine what is to be considered a fetal death:*

*"Fetal death" means death prior to the complete expulsion or extraction from its mother of a product of human conception, irrespective of the duration of pregnancy and which is not an induced termination of pregnancy. The death is indicated by the fact that after such expulsion or extraction, the fetus does not breathe or show any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles. Heartbeats are to be distinguished from transient cardiac contractions; respirations are to be distinguished from fleeting respiratory efforts or gasps.*

*Forty-one areas use a definition very similar to this definition, thirteen areas use a shortened definition of fetal death, and three areas have no formal definition of fetal death. (State Definitions and Reporting Requirements for*

*Live Births, Fetal Deaths, and INduced Terminations of Pregnancy 1997 Revision, US Department of Health and Human*

*Services, Centers for Disease Control and Prevention, National Center for Health Statistics)*

*A custom header has been used - as compared to the Consolidated US Realm header - because of the substantial differences in the underlying use case. For vital records purposes, basic identification only of the record target is provided. However, the more detailed demographics information required for Consolidated CDA is not included within the facilities work sheet which provides the data content of this stream of reporting.*

1. **SHALL** contain exactly one [1..1] templateId ( ) such that it
  - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.26.2"
2. **SHALL** contain exactly one [1..1] @classCode="DOCCLIN" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:142)
  - The code value indicates this is a clinical document.
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:143)



- The value indicates the included information refers to an existing document - as opposed to an intended one.
- 4. **SHALL** contain exactly one [1..1] **realmCode** (CONF:139)/@code="US" (CodeSystem: 1.0.3166.1 Country (ISO 3166-1)) (CONF:140)
  - The realm that the document is relevant for. This specification is a US realm product.
- 5. **SHALL** contain exactly one [1..1] **typeId** (CONF:141)
  - Type ID root = 2.16.840.1.113003.1.3.  
Type ID extension = "POCD\_HD000040."
- 6. **SHALL** contain exactly one [1..1] **id** (CONF:144)
  - Provide the identifier assigned to the document by the healthcare provider acting as a custodian of the information. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.
- 7. **SHALL** contain exactly one [1..1] **code** (CONF:145)/@code="69045-3" U.S. stanard report of fetal death - 2003 revision (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:146)
  - The value provided indicates that the document is a report of fetal death.
- 8. **SHALL** contain exactly one [1..1] **title** (CONF:147)
  - A text title for the document. The title may be either a locally defined name or the display name corresponding to clinicalDocument/code.
- 9. **SHALL** contain exactly one [1..1] **effectiveTime** (CONF:148)
  - The point in time the document was created at.
- 10. **SHALL** contain exactly one [1..1] **confidentialityCode** (CONF:149), which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.5.25 Confidentiality) (CONF:150)
  - An indication of the level of confidentiality with which the document needs to be managed.
- 11. **SHALL** contain exactly one [1..1] **languageCode** (CONF:151)
  - The language used for recording information within the document.
- 12. **SHALL** contain exactly one [1..1] **recordTarget** (CONF:152)
  - a. This recordTarget **SHALL** contain exactly one [1..1] @typeCode="RCT" (CONF:164)
  - b. This recordTarget **SHALL** contain exactly one [1..1] **patientRole** (CONF:165)
    - a. This patientRole **SHOULD** contain zero or one [0..1] **addr** (CONF:166)
 

*The current postal address for the mother.*
    - b. This patientRole **SHALL** contain exactly one [1..1] @classCode="PAT" (CONF:169)
    - c. This patientRole **SHALL** contain exactly one [1..1] **id** (CONF:167)
 

*The medical record number assigned to the mother by the health care facility. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*
    - d. This patientRole **SHALL** contain exactly one [1..1] **patient** with @xsi:type="Patient" (CONF:168)
- 13. **SHALL** contain exactly one [1..1] **author** (CONF:153)
 

*The author participation contains information about the person who authored the document. This is the person who verifies/approves the accuracy of the data to be sent to the vital records system.*

  - a. This author **SHALL** contain exactly one [1..1] @typeCode="AUT" (CONF:160)
  - b. This author **SHALL** contain exactly one [1..1] **assignedAuthor** (CONF:161)
    - a. This assignedAuthor **SHALL** contain exactly one [1..1] @classCode="ASSIGNED" (CONF:162)
    - b. This assignedAuthor **SHALL** contain exactly one [1..1] **id** (CONF:163)
 

*An identifier for the author of the fetal death report. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*
- 14. **SHALL** contain exactly one [1..1] **custodian** (CONF:154)

- a. This custodian **SHALL** contain exactly one [1..1] **@typeCode="CST"** (CONF:173)
- b. This custodian **SHALL** contain exactly one [1..1] **assignedCustodian** (CONF:174)
  - a. This assignedCustodian **SHALL** contain exactly one [1..1] **@classCode="ASSIGNED"** (CONF:175)
  - b. This assignedCustodian **SHALL** contain exactly one [1..1] **representedCustodianOrganization** (CONF:176)
    - a. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **@classCode="ORG"** (CONF:177)
    - b. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **@determinerCode="INSTANCE"** (CONF:178)
    - c. This representedCustodianOrganization **SHALL** contain exactly one [1..1] **id** (CONF:179)

*An identifier for the custodian organization. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*

**15. SHALL** contain exactly one [1..1] **component** (CONF:157)

- a. Contains exactly one [1..1] *Prenatal Testing and Surveillance Section* (templateId: 2.16.840.1.113883.10.20.26.3)

**16. SHALL** contain exactly one [1..1] **component** (CONF:158)

- a. Contains exactly one [1..1] *Prior Pregnancy History Section* (templateId: 2.16.840.1.113883.10.20.26.12)

**17. SHALL** contain exactly one [1..1] **component** (CONF:459)

- a. Contains exactly one [1..1] *History of Infection: Fetal Death Section* (templateId: 2.16.840.1.113883.10.20.26.48)

**18. SHALL** contain exactly one [1..1] **component** (CONF:155)

- a. Contains exactly one [1..1] *Labor and Delivery Section* (templateId: 2.16.840.1.113883.10.20.26.8)

**19. SHALL** contain exactly one [1..1] **component** (CONF:156)

- a. Contains exactly one [1..1] *Fetal Delivery Section* (templateId: 2.16.840.1.113883.10.20.26.4)

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="CDA.xsl"?>
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/
voc" xmlns:sdtc="urn:hl7-org:sdtc" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 CDA_SDTC.xsd"
classCode="DOCCLIN" moodCode="EVN">
  <!--
  *****
  CDA Header
  *****
  -->
  <realmCode code="US"/>
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
  <templateId root="2.16.840.1.113883.10.20.26.2"/>
  <!-- conforms to the guidance of the IG -->
  <id root="1.22.33" extension="0810USA6363"/>
  <!-- Vital Records document identifier. We need to supply instruction
  regarding use of object identifiers (OIDs) or Globally Unique Identifiers
  (GUIDs). -->
  <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
  code="69045-3" displayName="US standard report of fetal death"/>
  <title>Fetal Death Report</title>
  <!-- Title of the report -->
  <effectiveTime value="20121023"/>
  <!-- Date the report was prepared -->
```

```

<confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
<!--Confidentiality is a contextual component of CDA, where the value
expressed in the header holds true for the entire document, unless
overridden by a nested value and 2.16.840.1.113883.5.25 is the OID for
HL7-->
<languageCode code="en-US"/>
<!--LanguageCode example with language and country-->
<!--
*****
CDA Header: Participants
*****
-->
<recordTarget typeCode="RCT">
<!--The record target includes information regarding the mother.-->
<patientRole classCode="PAT">
<id root="2.3.44.55" extension="V000-013-0001-0003"/>
<!-- Mother's Medical Record Number. The root OID for the identifier
indicates the name space the identifier value is drawn from. -->
<addr>
<streetAddressLine>99 Somewhere Lane</streetAddressLine>
<city>Metropolis</city>
<state>Empire State</state>
<postalCode>893444</postalCode>
</addr>
<patient classCode="PSN" determinerCode="INSTANCE">
<name>
<family>Mother's family name</family>
<given>Mother's given Name</given>
</name>
</patient>
</patientRole>
</recordTarget>
<!--
*****
CDA Header: The Author of the Patient Narrative Document
*****
-->
<author typeCode="AUT">
<time nullFlavor="NI"/>
<assignedAuthor classCode="ASSIGNED">
<id root="2.44.998" extension="300-23"/>
<!-- Document Author identifier. The root OID for the document author
identifier indicates the name space the identifier value is drawn from. -->
</assignedAuthor>
</author>
<custodian typeCode="CST">
<assignedCustodian classCode="ASSIGNED">
<representedCustodianOrganization classCode="ORG"
determinerCode="INSTANCE">
<id root="2.889.3.55.2" extension="ABX_44445USA"/>
<!-- Document Custodian identifier. The root OID for the custodian
identifier indicates the name space the identifier value is drawn from. -->
</representedCustodianOrganization>
</assignedCustodian>
</custodian>
<!--
*****
Feta Death Report Content (CDA BODY)
*****
-->
<component>
<structuredBody>
<!--
*****

```

## Prenatal Testing and Surveillance Section

\*\*\*\*\*

--&gt;

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.3"/>
    ...
  </section>
</component>
<!--

```

\*\*\*\*\*

## Prior Pregnancy History Section

\*\*\*\*\*

--&gt;

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.12"/>
    ...
  </section>
</component>
<!--

```

\*\*\*\*\*

## History of Infection Section

\*\*\*\*\*

--&gt;

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.48"/>
    ...
  </section>
</component>
<!--

```

\*\*\*\*\*

## Labor and Delivery Section

\*\*\*\*\*

--&gt;

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.8"/>
    ...
  <!--

```

\*\*\*\*\*

## Labor and Delivery Procedure Section

\*\*\*\*\*

--&gt;

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.7"/>
    ...
  </section>
</component>
<!--

```

\*\*\*\*\*

## Mother's Vital Signs Section

\*\*\*\*\*

--&gt;

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.9"/>
    ...
  </section>
</component>
</section>
</component>

```

```

    <!--
    *****
Fetal Delivery Section
*****
-->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.4"/>
        ...
      </section>
    </component>
  </structuredBody>
</component>
</ClinicalDocument>

```

---

# Chapter

# 3

---

## SECTION TEMPLATES

---

### Topics:

- *Assessments Section*
- *Fetal Delivery Section*
- *History of Infection - Fetal Death Section*
- *History of Infection - Live Birth Section*
- *Labor and Delivery Procedure Section*
- *Labor and Delivery Section*
- *Mother's Vital Signs Section*
- *Newborn Delivery Section*
- *Newborn's Vital Signs Section*
- *Prenatal Testing and Surveillance Section*
- *Prior Pregnancy History Section*

## Assessments Section

[Section: templateId 2.16.840.1.113883.10.20.26.9]

*The section includes assessments, namely Apgar scores, that are recorded for the infant.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.9"
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:360)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:363)
4. **SHALL** contain exactly one [1..1] **code** (CONF:362)/**@code**="51848-0" *Assessment Note* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:361)
5. **SHALL** contain exactly one [1..1] **text** (CONF:364)
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*
6. If section/@nullFlavor is not present, **SHALL** contain at least one [1..\*] **entry** (CONF:514)
  - *Apgar scores are recorded to assess the condition of the newborn. In those cases in which the 5 minute Apgar score is less than 6, the 10 minute Apgar score is to be recorded. .*
  - a. Contains exactly one [1..1] *Assessment Observation* (templateId: 2.16.840.1.113883.10.20.26.47)
7. **SHALL** contain exactly one [1..1] **title** (CONF:540)
  - *Presence of a title corresponds to the requirements of Consolidated CDA. The expected value is "Assessment"*

```
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.22.2.8"/>
    <templateId root="2.16.840.1.113883.10.20.26.9"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="51848-0" displayName="Assessment Note"/>
    <title>Assessments</title>
    <text>
      ...
    </text>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>
        ...
      </entry>
      <entry>
        <observation classCode="OBS" moodCode="EVN">
          <templateId root="2.16.840.1.113883.10.20.26.14"/>
          ...
        </entry>
      </entry>
    </section>
```

## Fetal Delivery Section

[Section: templateId 2.16.840.1.113883.10.20.26.4]

*The section contains information on the delivered fetus. Note, if there is a multiple delivery, there will be a separate report for each delivered fetus. The content of the section is drawn from labor and delivery records and from the patient's medical record.*

*The reader should note that the subject of this section - the delivered fetus - is different from the overall subject of the clinical document - which is the mother.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.4"
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:76)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:78)
4. **SHALL** contain exactly one [1..1] **code**, which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:77)
  - *A code value that indicates the nature of the section - it contains information regarding the delivered fetus.*
5. **SHALL** contain exactly one [1..1] **text** (CONF:79)
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*
6. **SHALL** contain exactly one [1..1] **subject** (CONF:452)
  - a. This subject **SHALL** contain exactly one [1..1] **@typeCode**="SBJ" (CONF:65)
  - b. This subject **SHALL** contain exactly one [1..1] **relatedSubject** (CONF:453)
    - a. This relatedSubject **SHALL** contain exactly one [1..1] **@classCode**="PRS" (CONF:67)
    - b. This relatedSubject **SHALL** contain exactly one [1..1] **subject** (CONF:454)
      - a. This subject **SHALL** contain exactly one [1..1] **administrativeGenderCode** (CONF:73), which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.5.1 AdministrativeGenderCode) (CONF:74)
      - b. This subject **SHALL** contain exactly one [1..1] **@classCode**="PSN" (CONF:69)
      - c. This subject **SHALL** contain exactly one [1..1] **@determinerCode**="INSTANCE" (CONF:70)
      - d. This subject **MAY** contain zero or one [0..1] **name** (CONF:72)
        - *A name provided for the fetus.*
7. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:81)
  - a. Contains exactly one [1..1] *Plurality* (templateId: 2.16.840.1.113883.10.20.26.41)
8. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:82)
  - *Record birth order if not a single delivery.*
  - a. Contains exactly one [1..1] *Birth Order* (templateId: 2.16.840.1.113883.10.20.26.16)
9. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:83)
  - a. Contains exactly one [1..1] *Number of Infants Born Alive* (templateId: 2.16.840.1.113883.10.20.26.37)
10. If section/@nullFlavor is not present, **SHOULD** contain zero or one [0..1] **entry** (CONF:85)
  - a. Contains exactly one [1..1] *Autopsy Performance* (templateId: 2.16.840.1.113883.10.20.26.15)
11. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:86)
  - a. Contains exactly one [1..1] *Fetal Death Occurrence* (templateId: 2.16.840.1.113883.10.20.26.22)
12. If section/@nullFlavor is not present, **SHALL** contain at least one [1..\*] **entry** (CONF:87)
  - *There may be multiple congenital anomalies recorded. At least one observation will be present in the case that none are present.*
  - a. Contains exactly one [1..1] *Congenital Anomaly* (templateId: 2.16.840.1.113883.10.20.26.19)



13. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:88)

- a. Contains exactly one [1..1] *Fetal Delivery Time* (templateId: 2.16.840.1.113883.10.20.26.23)

```
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.4"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="xxxx" displayName="Fetal delivery"/>
    <text>
      ...
    </text>
    <subject typeCode="SBJ">
      <relatedSubject classCode="PRS">
        <subject classCode="PSN" determinerCode="INSTANCE">
          <name>
            <family>Ronald</family>
            <given>MGovern</given>
          </name>
          <administrativeGenderCode code="M"
codeSystem="2.16.840.1.113883.5.1"/>
        </subject>
      </relatedSubject>
    </subject>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.41"/>
        ...
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.15"/>
        ...
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.22"/>
        ...
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.19"/>
        ...
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.23"/>
        ...
      </observation>
    </entry>
  </section>
</component>
```

## History of Infection - Fetal Death Section

[Section: templateId 2.16.840.1.113883.10.20.26.48]

*This section SHALL include the infections present at the time of the pregnancy diagnosis or a confirmed diagnosis during the pregnancy with or without documentation of treatment. If the data is not present or not available within the system no entry is required. A negative diagnosis SHALL be recorded with the use of the negation indicator attribute.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.48"
2. Contains exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
3. Contains exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
4. **SHALL** contain exactly one [1..1] **code/@code**="71459-2" *Infection Panel* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:533)
5. If section/@nullFlavor is not present, **SHALL** contain at least one [1..\*] **entry** (CONF:534)
  - *There may be multiple infections recorded. At least one observation will be present in the case that none are present.*
  - a. Contains exactly one [1..1] *Infection Present: Fetal Death* (templateId: 2.16.840.1.113883.10.20.26.49)
6. Contains zero or one [0..1] **text**
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*

```
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.48"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="71459-2" displayName="Infection Panel"/>
    <text>
      ...
    </text>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.49"/>
        ...
      </observation>
    </entry>
  </section>
</component>
```

## History of Infection - Live Birth Section

[Section: templateId 2.16.840.1.113883.10.20.26.5]

*This section SHALL include the infections present at the time of the pregnancy diagnosis or a confirmed diagnosis during the pregnancy with or without documentation of treatment. If the data is not present or not available within the system no entry is required. A negative diagnosis SHALL be recorded with the use of the negation indicator attribute.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.5"
2. Contains exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
3. Contains exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood)
4. **SHALL** contain exactly one [1..1] **code/@code**="71459-2" *Infection panel* (CodeSystem: LOINC) (CONF:516)
5. **SHALL** contain exactly one [1..1] **text** (CONF:379)
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*
6. If section/@nullFlavor is not present, **SHALL** contain at least one [1..\*] **entry** (CONF:517)
  - *There may be multiple infections recorded. At least one observation will be present in the case that none are present.*
- a. Contains exactly one [1..1] *Infection Present: Live Birth* (templateId: 2.16.840.1.113883.10.20.26.30)

```
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.48"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="71459-2" displayName="Infection Panel"/>
    <text>
      ...
    </text>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.49"/>
        ...
      </observation>
    </entry>
  </section>
</component>
```

## Labor and Delivery Procedure Section

[Section: templateId 2.16.840.1.113883.10.20.26.7]

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.7"
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:380)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:382)
4. **SHALL** contain exactly one [1..1] **code** (CONF:381)/**@code**="29300-1" *Procedure* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:518)
5. **SHALL** contain exactly one [1..1] **text** (CONF:383)
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*
6. If section/@nullFlavor is not present, **MAY** contain zero or more [0..\*] **entry** (CONF:384)

- *Obstetric procedure information is collected for a live birth certificate, but not for a fetal death report. One or more entries recording the presence of an obstetric procedure may be recorded. Each entry contains information for a single procedure. In addition, an observation is provided (for live births only) if none of the indicated procedures were performed.*
- a. Contains exactly one [1..1] *Obstetric Procedure* (templateId: 2.16.840.1.113883.10.20.26.39)
- 7. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:385)
  - a. Contains exactly one [1..1] *Method of Delivery* (templateId: 2.16.840.1.113883.10.20.26.45)

```
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.7"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="xxxxxx" displayName="Labor and Delivery Procedure Section"/>
    <text>
      ...
    </list>
  </text>
  <entry>
    <procedure classCode="PROC" moodCode="EVN" negationInd="false">
      <templateId root="2.16.840.1.113883.10.20.26.39"/>
      ...
    </procedure>
  </entry>
  <entry>
    <procedure classCode="PROC" moodCode="EVN" negationInd="false">
      <templateId root="2.16.840.1.113883.10.20.26.45"/>
      ...
    </procedure>
  </entry>
</section>
</component>
```

## Labor and Delivery Section

[Section: templateId 2.16.840.1.113883.10.20.26.8]

*This section SHALL contain information pertinent to the labor and delivery process and outcome (e.g. type of labor, method of delivery, membrane detail, placenta detail, admission reason, gestational age at delivery, fetal surveillance, labor complications, and delivery complications). This section shall include the following sections: Procedures and Interventions, Vital Signs, and Event Outcomes subsections.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.8"
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:43)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:45)
4. **SHALL** contain exactly one [1..1] **code/@code**="34079-4" *Labor and delivery section* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:44)
  - *A code value that indicates the nature of the section - it is the labor and delivery section.*
5. **SHALL** contain exactly one [1..1] **text** (CONF:46)
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*

6. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:47)
  - a. Contains exactly one [1..1] *Labor and Delivery Process* (templateId: 2.16.840.1.113883.10.20.26.31)
7. If section/@nullFlavor is not present, **MAY** contain zero or more [0..\*] **entry** (CONF:48)
  - *Onset of labor information is collected for a live birth certificate, but not for a fetal death report.*
  - a. Contains exactly one [1..1] *Onset of Labor* (templateId: 2.16.840.1.113883.10.20.26.32)
8. **SHALL** contain exactly one [1..1] **component** (CONF:50)
  - a. Contains exactly one [1..1] *Labor and Delivery Procedure Section* (templateId: 2.16.840.1.113883.10.20.26.7)
9. **SHALL** contain exactly one [1..1] **component** (CONF:449)
  - a. Contains exactly one [1..1] *Mothers Vital Signs Section* (templateId: 2.16.840.1.113883.10.20.26.14)

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.8"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="34079-4" displayName="Labor and delivery section"/>
    <text>
      ...
    </text>
    <entry>
      <act classCode="SPCTRT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.31"/>
        ...
      </act>
    </entry>
    <entry typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.32"/>
        ...
      </observation>
    </entry>
  <!--
*****
Labor and Delivery Procedure Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.7"/>
      ...
    </section>
  </component>
  <!--
*****
Mother's Vital Signs Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.14"/>
      ...
    </section>
  </component>

```

## Mother's Vital Signs Section

[Section: templateId 2.16.840.1.113883.10.20.26.14]

*The section includes vital signs collected for the mother in the context of labor and delivery for this pregnancy. Items collected include height, as well as body weight prior to the pregnancy and at delivery.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.14"
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:360)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:363)
4. **SHALL** contain exactly one [1..1] **code** (CONF:362)/**@code**="8716-3" *Vital Signs* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:361)
5. **SHALL** contain exactly one [1..1] **text** (CONF:364)
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*
6. If section/@nullFlavor is not present, **SHALL** contain zero or more [0..\*] **entry** (CONF:539)
  - a. Contains exactly one [1..1] *Mothers Vital Signs Observation* (templateId: 2.16.840.1.113883.10.20.26.46)

```
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.14"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="8716-3" displayName="Vital Signs"/>
    <text>
      ...
    </text>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>
        ...
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>
        ...
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>
        ...
      </observation>
    </entry>
  </section>
</component>
</section>
</component>
```

## Newborn Delivery Section

[Section: templateId 2.16.840.1.113883.10.20.26.10]

*The section contains information on the newborn baby. Note, if there is a multiple delivery, there will be a separate report for each birth. The content is drawn from labor and delivery records, newborn's medical records, mother's medical records. The reader should note that the subject of this section - the newborn infant - is different from the overall subject of the clinical document - which is the mother.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
    - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.10"
  2. **SHALL** contain exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:51)
  3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:53)
  4. **SHALL** contain exactly one [1..1] **code/@code**="57075-4" *Newborn delivery information from newborn narrative* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:52)
    - *A code value that indicates the nature of the section - it contains information on the newborn.*
  5. **SHALL** contain exactly one [1..1] **text** (CONF:54)
    - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*
  6. **SHALL** contain exactly one [1..1] **subject** (CONF:55)
    - a. This subject **SHALL** contain exactly one [1..1] **@typeCode**="SBJ" (CONF:65)
    - b. This subject **SHALL** contain exactly one [1..1] **relatedSubject** (CONF:66)
      - a. This relatedSubject **SHALL** contain exactly one [1..1] **@classCode**="PRS" (CONF:67)
      - b. This relatedSubject **SHALL** contain exactly one [1..1] **code/@code**="CHILD" (CodeSystem: 2.16.840.1.113883.5.111 RoleCode) (CONF:451)
      - c. This relatedSubject **SHALL** contain exactly one [1..1] **subject** (CONF:68)
        - a. This subject **SHALL** contain exactly one [1..1] **administrativeGenderCode** (CONF:73), which **SHALL** be selected from (CodeSystem: 2.16.840.1.113883.5.1 AdministrativeGenderCode) (CONF:74)
        - b. This subject **SHALL** contain exactly one [1..1] **birthTime** (CONF:75)
 

*The birth date and time of the newborn. By the same token, the date and time of delivery.*
      - c. This subject **SHALL** contain exactly one [1..1] **@classCode**="PSN" (CONF:69)
      - d. This subject **SHALL** contain exactly one [1..1] **@determinerCode**="INSTANCE" (CONF:70)
      - e. This subject **SHALL** contain exactly one [1..1] **name** (CONF:72)
 

*The name provided for the newborn.*
      - f. This subject **SHALL** contain exactly one [1..1] **sDTCId** (CONF:71)
 

*An identifier assigned to the newborn. The medical record number assigned by the delivering institution should be provided.*
7. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:56)
  - a. Contains exactly one [1..1] **Plurality** (templateId: 2.16.840.1.113883.10.20.26.41)
8. If section/@nullFlavor is not present, **MAY** contain zero or one [0..1] **entry** (CONF:57)
  - *Record birth order if not a single delivery.*
  - a. Contains exactly one [1..1] **Birth Order** (templateId: 2.16.840.1.113883.10.20.26.16)
9. If section/@nullFlavor is not present, **MAY** contain zero or one [0..1] **entry** (CONF:58)

- a. Contains exactly one [1..1] *Number of Infants Born Alive* (templateId: 2.16.840.1.113883.10.20.26.37)
- 10. If section/@nullFlavor is not present, **SHALL** contain at least one [1..\*] **entry** (CONF:59)
  - *One or more entries recording the presence of an abnormal condition may be recorded. Each entry contains information for a single condition.*
  - a. Contains exactly one [1..1] *Abnormal Condition of the Newborn* (templateId: 2.16.840.1.113883.10.20.26.13)
- 11. If section/@nullFlavor is not present, **SHALL** contain at least one [1..\*] **entry** (CONF:60)
  - *There may be multiple congenital anomalies recorded. At least one observation will be present in the case that none are present.*
  - a. Contains exactly one [1..1] *Congenital Anomaly* (templateId: 2.16.840.1.113883.10.20.26.19)
- 12. If section/@nullFlavor is not present, **MAY** contain zero or one [0..1] **entry** (CONF:61)
  - a. Contains exactly one [1..1] *Infant Transfer* (templateId: 2.16.840.1.113883.10.20.26.29)
- 13. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:62)
  - a. Contains exactly one [1..1] *Infant Living* (templateId: 2.16.840.1.113883.10.20.26.28)
- 14. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:63)
  - a. Contains exactly one [1..1] *Infant Breastfed* (templateId: 2.16.840.1.113883.10.20.26.27)
- 15. **SHALL** contain exactly one [1..1] **component** (CONF:64)
  - a. Contains exactly one [1..1] *Newborns Vital Signs Section* (templateId: 2.16.840.1.113883.10.20.26.11)
- 16. **SHALL** contain exactly one [1..1] **component** (CONF:450)
  - a. Contains exactly one [1..1] *Assessments Section* (templateId: 2.16.840.1.113883.10.20.26.9)

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.10"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="57075-4" displayName="Newborn delivery information from newborn
Narrative"/>
    <text>
      ...
    </text>
    <subject typeCode="SBJ">
      <relatedSubject classCode="PRS">
        <subject classCode="PSN" determinerCode="INSTANCE">
          <sdtc:id root="2.1.33" extension="123-MR-8233"/>
          <!-- The root OID for the newborn identifier indicates the name
space the identifier value is drawn from. -->
          <name>
            <family>Johnson</family>
            <given>Baby Girl</given>
          </name>
          <administrativeGenderCode code="F"
codeSystem="2.16.840.1.113883.5.1"/>
          <birthTime value="201301211300"/>
        </subject>
      </relatedSubject>
    </subject>
  </entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.41"/>
    ...

```



```

    </observation>
  </entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.13"/>
    ...
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.13"/>
    ...
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.19"/>
    ...
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.19"/>
    ...
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.19"/>
    ...
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.29"/>
    ...
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.28"/>
    ...
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.27"/>
    ...
  </observation>
</entry>
<!--
*****
Newborn's Vital Signs Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.11"/>
      ...
    </section>
  </component>
  <!--
*****
Assessment Section

```

```
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.22.2.8"/>
      <templateId root="2.16.840.1.113883.10.20.26.9"/>
      ...
    </section>
  </component>
</section>
</component>
```

## Newborn's Vital Signs Section

[Section: templateId 2.16.840.1.113883.10.20.26.11]

*The vital signs - newborn section contains measurement results of the newborn's vital signs. The reader should note that the subject of this section - the newborn infant - is different from the overall subject of the clinical document - which is the mother.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.11"
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:353)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:356)
4. **SHALL** contain exactly one [1..1] **code** (CONF:355)/**@code**="8716-3" *Vital Signs* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:354)
5. **SHALL** contain exactly one [1..1] **text** (CONF:357)
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*
6. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:460)
  - a. Contains exactly one [1..1] *Newborns Vital Signs Observation* (templateId: 2.16.840.1.113883.10.20.26.50)

```
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.11"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="8716-3" displayName="Vital Signs"/>
    <text>
      ...
    </text>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.50"/>
        ...
      </observation>
    </entry>
  </section>
</component>
```

## Prenatal Testing and Surveillance Section

[Section: templateId 2.16.840.1.113883.10.20.26.3]

*The section contains information on the prenatal care provided to the mother. The content is drawn from prenatal care records, mother's medical records, labor and delivery records. Information recorded for live births differs slightly from that recorded for a fetal death report.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.3"
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:38)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:40)
4. **SHALL** contain exactly one [1..1] **code/@code**="57078-8" *Antenatal testing and surveillance* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:39)
  - *A code value that indicates the nature of the section - it captures prenatal care information in the case of a live birth or of a fetal death.*
5. **SHALL** contain exactly one [1..1] **text** (CONF:41)
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*
6. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:42)
  - *The included entry records information regarding prenatal care received by the mother.*
  - a. Contains exactly one [1..1] *Prenatal Care* (templateId: 2.16.840.1.113883.10.20.26.42)

```
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.3"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
      code="57078-8" displayName="Antenatal Testing and Surveillance Section"/>
    <text>
      ...
    </text>
    <entry>
      <act classCode="ACT" moodCode="EVN" negationInd="true">
        <templateId root="2.16.840.1.113883.10.20.26.42"/>
        ...
      </entry>
    </section>
  </component>
```

## Prior Pregnancy History Section

[Section: templateId 2.16.840.1.113883.10.20.26.12]

*The pregnancy history section contains entries describing the patient's prior pregnancy history.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.12"
2. **SHALL** contain exactly one [1..1] **@classCode**="DOCSECT" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:368)

3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:370)
4. **SHALL** contain exactly one [1..1] **code** (CONF:369)/**@code**="57073-9" *Prenatal events* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:515)
5. **SHALL** contain exactly one [1..1] **text** (CONF:371)
  - *The text entry is drawn from the structured content contained within the entries of this section. Text is required to provide human readable content.*
6. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:372)
  - a. Contains exactly one [1..1] *Date of Last Live Birth* (templateId: 2.16.840.1.113883.10.20.26.20)
7. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:373)
  - a. Contains exactly one [1..1] *Last Menstrual Period Date* (templateId: 2.16.840.1.113883.10.20.26.33)
8. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:374)
  - a. Contains exactly one [1..1] *Number of Births Now Living* (templateId: 2.16.840.1.113883.10.20.26.36)
9. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:375)
  - a. Contains exactly one [1..1] *Number of Live Births Now Dead* (templateId: 2.16.840.1.113883.10.20.26.38)
10. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:376)
  - a. Contains exactly one [1..1] *Other Pregnancy Outcome* (templateId: 2.16.840.1.113883.10.20.26.40)
11. If section/@nullFlavor is not present, **SHALL** contain exactly one [1..1] **entry** (CONF:377)
  - a. Contains exactly one [1..1] *Estimate of Gestation* (templateId: 2.16.840.1.113883.10.20.26.21)

```

<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.12"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="57073-9" displayName="Prenatal events"/>
    <text>
      ...
    </text>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.20"/>
        ...
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.33"/>
        ...
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.36"/>
        ...
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.38"/>
        ...
      </observation>
    </entry>
  </section>

```

```

    </observation>
  </entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.40"/>
    ...
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.21"/>
    ...
  </observation>
</entry>
</section>
</component>

```

# Chapter

# 4

## CLINICAL STATEMENT TEMPLATES

### Topics:

- *Abnormal Condition of the Newborn*
- *Assessment Observation*
- *Autopsy Performance*
- *Birth Order*
- *Characteristic of Labor and Delivery*
- *Congenital Anomaly*
- *Date of Last Live Birth*
- *Estimate of Gestation*
- *Fetal Death Occurrence*
- *Fetal Delivery Time*
- *Infant Breastfed*
- *Infant Living*
- *infant Transfer*
- *Infection Present - Fetal Death*
- *Infection Present - Live Birth*
- *Labor and Delivery Process*
- *Last Menstrual Period Date*
- *Maternal Morbidity*
- *Maternal Transfer*
- *Method of Delivery*
- *Mother's Vital Signs Observation*
- *Newborn's Vital Signs Observation*
- *Number of Births Now Living*
- *Number of Infants Born Alive*
- *Number of Live Births now Dead*
- *Obstetric Procedure*
- *Onset of Labor*
- *Other Pregnancy Outcome*
- *Planned Home Birth*
- *Plurality*
- *Pregnancy Risk Factor*
- *Pre-Natal Care*

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.

## Abnormal Condition of the Newborn

[Observation: templateId 2.16.840.1.113883.10.20.26.13]

*The template contains information on one or more disorders or significant morbidities experienced by the newborn.*

1. **SHALL** contain exactly one [1..1] templateId ( ) such that it
  - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.26.13"
2. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:266)
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:269)
4. **SHALL** contain exactly one [1..1] code (CONF:267)/@code="73812-0" Abnormal conditions of the newborn (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:479)
  - A code value that indicates the nature of the observation - it records the fact that abnormal condition information is being provided.
5. **SHALL** contain exactly one [1..1] value with @xsi:type="CD" (CONF:270), which **SHALL** be selected from ValueSet **STATIC** (CONF:480)

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.13"/>
    <code code="73812-0" displayName="Abnormal conditions of the newborn"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="405269005" displayName="Neonatal intensive
care unit" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entry>
```

## Assessment Observation

[Observation: templateId 2.16.840.1.113883.10.20.26.47]

*The section includes assessments, namely Apgar scores, that are recorded for the infant. A single Apgar score - at 5 minutes after delivery is expected. A second score - at 10 minutes after birth - is to be provided if the 5 minute score is less than 6.*

1. **SHALL** contain exactly one [1..1] templateId ( ) such that it
  - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.26.47"
2. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:334)
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:337)
4. **SHALL** contain exactly one [1..1] code (CONF:335), which **SHALL** be selected from ValueSet [Apgar Assessment \(NCHS\)](#) 2.16.840.1.114222.4.11.7210 **DYNAMIC** (CONF:540)
  - A code value that indicates the nature of the observation. The value is drawn from the Newborn Vital Signs value set.
5. **SHALL** contain exactly one [1..1] value (CONF:339)
  - The measured vital sign amount. The meaning of the observation is dependent on the value of observation code. The datatype for assessment value depends on the nature of the assessment.

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.46"/>
    <code code="9274-2" displayName="Score^5M post birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="INT" value="5"/>
  </observation>
</entry>

```

## Autopsy Performance

[Observation: templateId 2.16.840.1.113883.10.20.26.15]

*The template contains information on whether or not an autopsy was planned or performed, and if the findings of a performed autopsy were used in completing the medical portion of the fetal death report.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.15"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:398)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:401)
4. **SHALL** contain exactly one [1..1] **code** (CONF:399)/**@code**="73768-4" *Autopsy was performed* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:400)
  - *A code value that indicates the nature of the observation - that it indicates whether an autopsy was performed or planned.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:402), which **SHALL** be selected from ValueSet *Autopsy Examination (NCHS)* 2.16.840.1.114222.4.11.7137 **DYNAMIC** (CONF:521)
  - *A coded value that indicates whether an autopsy has been performed, has not been performed, or is planned.*
6. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:522)
  - a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="COMP" (CONF:410)
  - b. This entryRelationship **SHALL** contain exactly one [1..1] **observation** (CONF:524)
    - a. This observation **SHALL** contain exactly one [1..1] **code** (CONF:412)/**@code**="73767-6" *Histological placental examination was performed* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:413)
 

*A code value that indicates the nature of the observation - that it indicates whether a histological placental exam was performed or planned.*
    - b. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:414), which **SHALL** be selected from ValueSet **STATIC** (CONF:525)
 

*A coded value that indicates whether a histological placental exam has been performed, has not been performed, or is planned.*
7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:404)
 

*If an autopsy has been performed, indicate whether or not the results were used for the fetal death report.*

  - a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="COMP" (CONF:410)
  - b. This entryRelationship **SHALL** contain exactly one [1..1] **observation** (CONF:523)



- a. This observation **SHALL** contain exactly one [1..1] **code** (CONF:412)/**@code**="LOINC\_TBD" *Autopsy or Histological Results Used* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:413)

*A code value that indicates the nature of the observation - that it indicates whether the results of a performed autopsy or a performed histological placental exam were used as part of determining the cause of death. A LOINC code is being requested to represent this observation type.*

- b. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="BL" (CONF:414)

*An indicator to tell whether or not the findings of an autopsy or of a histological placental exam were used in completing the medical portion of the fetal death report.*

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.15"/>
    <code code="73768-4" displayName="Autopsy was performed"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="true"/>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="73767-6" displayName="Histological placental
examination was performed" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
        <value xsi:type="BL" value="true"/>
        <entryRelationship typeCode="COMP">
          <observation classCode="OBS" moodCode="EVN">
            <code code="LOINC_TBD" displayName="Autopsy and histological
placental examination was used in determining cause of death"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
            <value xsi:type="BL" value="true"/>
          </observation>
        </entryRelationship>
      </observation>
    </entryRelationship>
  </observation>
</entry>
```

## Birth Order

[Observation: templateId 2.16.840.1.113883.10.20.26.16]

*The Birth Order templated records the order in which the newborn or fetus was delivered in the pregnancy. All live births and fetal losses resulting from the pregnancy should be included.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.16"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:348)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:351)
4. **SHALL** contain exactly one [1..1] **code** (CONF:349)/**@code**="73771-8" *Birth order* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:350)
  - *A code value that indicates the nature of the observation - it is a birth order observation.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="INT" (CONF:352)

- *Indicate the order delivered in the pregnancy of the baby or fetus, aka "Set Number". Leave the field empty for singleton births or deliveries.*

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.16"/>
    <code code="73771-8" displayName="Birth order"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="INT" value="2"/>
  </observation>
</entry>
```

## Characteristic of Labor and Delivery

[Observation: templateId 2.16.840.1.113883.10.20.26.18]

*The template contains information on whether the mother experienced one or more of a set of defined characteristics of labor and delivery.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.18"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:256)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:259)
4. **SHALL** contain exactly one [1..1] **code** (CONF:257)/**@code**="73813-8" *Characteristics of labor and delivery* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:475)
  - *A code value that indicates the nature of the observation - it indicates the nature of the labor and delivery characteristic about which information is provided.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:260), which **SHALL** be selected from ValueSet **STATIC** (CONF:476)

```
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.18"/>
    <code code="73813-8" displayName="Characteristics of labor and
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="231064003" displayName="Intrathecal
injection of local anesthetic agent" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
```

## Congenital Anomaly

[Observation: templateId 2.16.840.1.113883.10.20.26.19]

*Information on whether the infant or fetus suffered from one or more of a list of known malformations diagnosed prenatally or after delivery.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.19"
- 2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:271)
- 3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:274)
- 4. **SHALL** contain exactly one [1..1] **code** (CONF:272)/**@code**="73780-9" *Congenital anomalies of the newborn* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:481)
  - *A code value that indicates the nature of the observation - it records the nature of the congenital anomaly about which information is provided.*
- 5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:275), which **SHALL** be selected from ValueSet **STATIC** (CONF:482)
- 6. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:483)

*Down confirmation information is relevant if Down syndrome has been chosen as a congenital anomaly.*

- a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="COMP" (CONF:485)
- b. This entryRelationship **SHALL** contain exactly one [1..1] **observation** (CONF:486)
  - a. This observation **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:487)
  - b. This observation **SHALL** contain exactly one [1..1] **code** (CONF:488)/**@code**="73779-1" *Down syndrome karyotype status* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:489)
  - c. This observation **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:490)
  - d. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:491), which **SHALL** be selected from ValueSet **STATIC** (CONF:492)
- 7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:484)

*Chromosomal disorder confirmation information is relevant if chromosomal disorder syndrome has been chosen as a congenital anomaly.*

- a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="COMP" (CONF:493)
- b. This entryRelationship **SHALL** contain exactly one [1..1] **observation** (CONF:494)
  - a. This observation **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:495)
  - b. This observation **SHALL** contain exactly one [1..1] **code** (CONF:496)/**@code**="73778-3" *Suspected chromosomal disorder karyotype status* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:497)
  - c. This observation **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:498)
  - d. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:499), which **SHALL** be selected from ValueSet **STATIC** (CONF:500)

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.19"/>
    <code code="73780-9" displayName="Congenital anomalies of the
newborn" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="17190001" displayName="Congenital
diaphragmatic hernia" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
```

```

    <templateId root="2.16.840.1.113883.10.20.26.19"/>
    <code code="73780-9" displayName="Congenital anomalies of the
newborn" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="70156005" displayName="Anomaly
of chromosome pair 21" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="73779-1" displayName="Down syndrome karyotype status"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="CD" code="442124003" displayName="Karyotype
evaluation abnormal" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.19"/>
    <code code="73780-9" displayName="Congenital anomalies of the
newborn" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="409709004" displayName="Chromosomal
disorder" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="73778-3" displayName="Suspected chromosomal
disorder karyotype status" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
        <value xsi:type="CD" code="312948004" displayName="Karyotype
determination" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
      </observation>
    </entryRelationship>
  </observation>
</entry>

```

## Date of Last Live Birth

[Observation: templateId 2.16.840.1.113883.10.20.26.20]

*The date of birth of the last live-born infant (month and year) excluding this delivery. Includes live-born infants now living and now dead. If this was a multiple delivery, include all live born infants who preceded the live born infant in this delivery. If first born, do not include this infant. If second born, include the first born.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.20"
2. Contains exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:213)
4. **SHALL** contain exactly one [1..1] **code** (CONF:212)/**@code**="68499-3" *Date last live birth* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:463)
  - *A code value that indicates the nature of the observation - it records the date of the last live birth for the mother.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="TS" (CONF:214)
  - *The date of birth of the last live born infant. Month and year should be provided.*

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.20"/>
    <code code="68499-3" displayName="Date last live birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="TS" value="20101125"/>
  </observation>
</entry>

```

## Estimate of Gestation

[Observation: templateId 2.16.840.1.113883.10.20.26.21]

*The delivery attendant's final estimate of gestation based on all perinatal factors and assessments.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.21"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:330)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:332)
4. **SHALL** contain exactly one [1..1] **code** (CONF:331)/**@code**="11884-4" *Gestational age Estimated* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:510)
  - *A code value that indicates the nature of the observation - that it records the birth attendant's estimate of gestation.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="PQ" (CONF:333)
  - *The final estimate of gestation based on all perinatal factors and assessments, but not the neonatal exam. The value is to be provided as a number of completed weeks.*

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.21"/>
    <code code="11884-4" displayName="Gestational age"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="39" unit="wk"/>
  </observation>
</entry>

```

## Fetal Death Occurrence

[Observation: templateId 2.16.840.1.113883.10.20.26.22]

*Information on the estimated time of fetal death; the time of death is characterized by relationship to the time of delivery.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.22"
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" *Act* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:415)

3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:417)
4. **SHALL** contain exactly one [1..1] **code** (CONF:416)/**@code**="73811-2" *Estimated time of fetal death* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:526)
  - *A code value that indicates the nature of the observation - that it indicates the death of a fetus.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:418), which **SHALL** be selected from ValueSet *Fetal Death Time Point (NCHS)* 2.16.840.1.114222.4.11.7112 **DYNAMIC** (CONF:419)
  - *Information regarding the point within the delivery process at which fetal death occurred.*

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.22"/>
    <code code="73811-2" displayName="Estimated time of fetal death"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="634661000124111" displayName="Died
during labor, after first assessment" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entry>

```

## Fetal Delivery Time

[Observation: templateId 2.16.840.1.113883.10.20.26.23]

*The date and time of fetal delivery. Since the time of fetal death is prior to delivery, it would not be proper to record this information as time of death.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.23"
2. Contains exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:445)
4. **SHALL** contain exactly one [1..1] **code** (CONF:444)/**@code**="11778-8" *Delivery date for patient selected by practitioner using all pertinent information* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:529)
  - *A code value that indicates the nature of the observation - it records the date and time of fetal delivery.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="TS" (CONF:446)
  - *The date and time of delivery.*
6. **SHALL** contain exactly one [1..1] **participant** (CONF:530)
  - a. This participant **SHALL** contain exactly one [1..1] **@typeCode**="LOC" (CONF:118)
  - b. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:531)
    - a. This participantRole **MAY** contain zero or one [0..1] **addr** (CONF:123)
 

*The address for the place where the delivery took place. It is collected in those cases where the delivery did not occur within a healthcare facility.*
    - b. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="SDLOC" (CONF:119)
    - c. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:121), which **SHALL** be selected from ValueSet **STATIC** (CONF:122)

*A code that indicates the type of facility or place at which the delivery took place.*

- d. This participantRole **SHOULD** contain zero or one [0..1] **id** (CONF:120)

*An identifier for the facility within which the delivery took place. This attribute is not relevant if the birth took place outside of a health care facility. The attribute repeats to allow entry of both state and nationally assigned identifiers. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*

- e. This participantRole **SHALL** contain exactly one [1..1] **playingEntity** (CONF:532)
- This playingEntity **SHALL** contain exactly one [1..1] **@classCode="PLC"** (CONF:127)
  - This playingEntity **MAY** contain zero or one [0..1] **desc** (CONF:125)

*A description of the place where the delivery took place. The attribute is used for those cases in which the delivery occurred neither at a healthcare facility, nor at a place with a defined postal address. If this delivery occurred en route, that is, in a moving conveyance, enter the city, town, village, or location where the fetus was first removed from the conveyance.*

*If the delivery occurred in international air space or waters, enter "plane" or "boat."*

- This playingEntity **SHALL** contain exactly one [1..1] **@determinerCode="INSTANCE"** (CONF:128)
- This playingEntity **SHOULD** contain zero or one [0..1] **name** (CONF:126)

*The name of the facility at which the delivery took place.*

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.23"/>
    <code code="11778-8" displayName="Delivery date for
patient selected by practitioner using all pertinent information"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="TS" value="201301312330"/>
    <participant typeCode="LOC">
      <participantRole classCode="SDLOC">
        <id root="2.16.840.1.113883.4.6" extension="6789012345"/>
        <!-- In a normal instance, ID will be valued for birth in the
hospital, but street address will not be provided. In a home birth, there
will be no
        identifier, but street address is expected. -->
        <code code="169813005" displayName="Home birth"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
        <addr>
          <streetAddressLine>124 Main St</streetAddressLine>
          <city>Anywhere</city>
          <county>Metropolitan</county>
          <postalCode>12345</postalCode>
        </addr>
      </participantRole>
    </participant>
  </observation>
</entry>
```

## Infant Breastfed

[Observation: templateId 2.16.840.1.113883.10.20.26.27]

*Information on whether the infant was being breastfed during the period between birth and discharge from the hospital.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.27"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:390)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:392)
4. **SHALL** contain exactly one [1..1] **code** (CONF:391)/**@code**="73756-9" *Infant is being breastfed at discharge* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:535)
  - *A code value that indicates the nature of the observation - that it indicates whether the infant is being breastfed.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="BL" (CONF:393)
  - *Information to identify whether the infant was being breastfed at discharge.*

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.27"/>
    <code code="73756-9" displayName="Infant is being breastfed at
discharge" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="true"/>
  </observation>
</entry>
```

## Infant Living

[Observation: templateId 2.16.840.1.113883.10.20.26.28]

*Information on whether the infant is living at the time this birth certificate is being completed. It is expected that "Yes" will be recorded if the infant has already been discharged to home care.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.28"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:386)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:388)
4. **SHALL** contain exactly one [1..1] **code** (CONF:387)/**@code**="73757-7" *Infant living at time of report* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:519)
  - *A code value that indicates the nature of the observation - that it includes information on whether the infant was living at time of report.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="BL" (CONF:389)
  - *Information to identify whether the infant was living at the time of report.*

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.28"/>
    <code code="73757-7" displayName="Infant living at time of report"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="true"/>
  </observation>
</entry>
```



## infant Transfer

[Observation: templateId 2.16.840.1.113883.10.20.26.29]

*Information on whether or not the infant was transferred within 24 hours of delivery.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.29"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:432)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:434)
4. **SHALL** contain exactly one [1..1] **code** (CONF:433)/**@code**="73758-5" *Infant was transferred within 24 hours of delivery* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:528)
  - *The code value indicates the observation refers to the transfer of an infant.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="BL" (CONF:435)
  - *A Boolean value to indicate whether or not the infant was transferred within 24 hours of delivery.*
6. **MAY** contain zero or one [0..1] **participant** (CONF:436)

*If the infant has been transferred, the name of the facility is collected - if it is known.*

- a. This participant **SHALL** contain exactly one [1..1] **@typeCode**="DST" (CONF:437)
- b. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:438)
  - a. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="SDLOC" (CONF:439)
  - b. This participantRole **SHALL** contain exactly one [1..1] **scopingEntity** (CONF:440)
    - a. This scopingEntity **SHALL** contain exactly one [1..1] **@classCode**="ORG" (CONF:441)
    - b. This scopingEntity **SHALL** contain exactly one [1..1] **@determinerCode**="INSTANCE" (CONF:442)
    - c. This scopingEntity **SHALL** contain exactly one [1..1] **name** (CONF:443)

*The name of the facility the infant was transferred to.*

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.29"/>
    <code code="73758-5" displayName="Infant was transferred
within 24 hours of delivery" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
    <value xsi:type="BL" value="false"/>
  </observation>
</entry>
```

## Infection Present - Fetal Death

[Observation: templateId 2.16.840.1.113883.10.20.26.49]

*Information on infections present and/or treated during the pregnancy. This includes infections present at the start of pregnancy or confirmed diagnosis during pregnancy with or without documentation of treatment.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.49"

2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:234)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:237)
4. **SHALL** contain exactly one [1..1] **code** (CONF:235)/**@code**="73769-2" *Infections present and or treated during this pregnancy for fetal death* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:469)
  - A code value that indicates the nature of the observation - it records nature of the infection about which information is provided. For fetal death reporting refer to the value set: *Fetal Death Reporting - Infections Present*.
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:238), which **SHALL** be selected from ValueSet **STATIC** (CONF:471)
  - The content of the observation will be drawn from the appropriate value set: *Birth Reporting - Infections Present, or Fetal Death Reporting - Infections present*.

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.49"/>
    <code code="73769-2" displayName="Infections present and or treated
during this pregnancy for fetal death" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
    <value xsi:type="CD" code="4241002" displayName="Listeriosis"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entry>
```

## Infection Present - Live Birth

[Observation: templateId 2.16.840.1.113883.10.20.26.30]

*Information on infections present and/or treated during the pregnancy. This includes infections present at the start of pregnancy or confirmed diagnosis during pregnancy with or without documentation of treatment.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.30"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:234)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:237)
4. **SHALL** contain exactly one [1..1] **code** (CONF:235)/**@code**="72519-2" *InfeInfections present and or treated during this pregnancy for live birth* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:536)
  - A code value that indicates the nature of the observation - it records nature of the infection about which information is provided. Note, for live birth reporting refer to the value set: *Birth Reporting - Infections Present*.
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:238), which **SHALL** be selected from ValueSet **STATIC** (CONF:538)
  - The content of the observation will be drawn from the appropriate value set: *Birth Reporting - Infections Present, or Fetal Death Reporting - Infections present*.

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

```

<templateId root="2.16.840.1.113883.10.20.26.30"/>
<code code="72519-2" displayName="Infections present and or treated
during this pregnancy for live birth" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
<value xsi:type="CD" code="260413007" displayName="None"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
</observation>
</entry>

```

## Labor and Delivery Process

[Act: templateId 2.16.840.1.113883.10.20.26.31]

*The template contains information directly associated with the labor and delivery process. It captures the act of labor and delivery, and includes information for the birth attendant and location.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.31"
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" *Act* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:89)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:91)
4. **SHALL** contain exactly one [1..1] **code** (CONF:90)/**@code**="57074-7" *Labor and delivery process* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:455)
  - *A code value that indicates the nature of the observation - it contains information regarding the labor and delivery process.*
5. **SHALL** contain exactly one [1..1] **performer** (CONF:92)

*Information on the person attending the birth.*

- a. This performer **SHALL** contain exactly one [1..1] **@typeCode**="PRF" (CONF:101)
- b. This performer **SHALL** contain exactly one [1..1] **assignedEntity** (CONF:102)
  - a. This assignedEntity **SHALL** contain exactly one [1..1] **@classCode**="ASSIGNED" (CONF:103)
  - b. This assignedEntity **SHALL** contain exactly one [1..1] **code** (CONF:106), which **SHALL** be selected from ValueSet **STATIC** (CONF:107)

*An indication of the professional qualification of the birth attendant. Their title. If the code - 394841004 (other category) - is chosen, the original text property is used to record a text value.*

- c. This assignedEntity **SHOULD** contain zero or more [0..\*] **id** (CONF:104)

*An identifier for the birth attendant. The national provider id is expected. A state registration id may be provided as well. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*

- d. This assignedEntity **SHALL** contain exactly one [1..1] **assignedPerson** (CONF:456)
  - a. This assignedPerson **SHALL** contain exactly one [1..1] **@classCode**="PSN" (CONF:108)
  - b. This assignedPerson **SHALL** contain exactly one [1..1] **@determinerCode**="INSTANCE" (CONF:109)
  - c. This assignedPerson **SHALL** contain exactly one [1..1] **name** (CONF:110)

*The name of the birth attendant*

6. **SHALL** contain exactly one [1..1] **participant** (CONF:94)
  - a. This participant **SHALL** contain exactly one [1..1] **@typeCode**="LOC" (CONF:118)
  - b. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:117)

- a. This participantRole **MAY** contain zero or one [0..1] **addr** (CONF:123)

*The address for the place where the delivery took place. It is collected in those cases where the delivery did not occur within a healthcare facility.*

- b. This participantRole **SHALL** contain exactly one [1..1] **@classCode="BIRTHPL"** (CONF:119)  
 c. This participantRole **SHALL** contain exactly one [1..1] **code** (CONF:121), which **SHALL** be selected from ValueSet **STATIC** (CONF:122)

*A code that indicates the type of facility or place at which the delivery took place.*

- d. This participantRole **SHOULD** contain zero or one [0..1] **id** (CONF:120)

*An identifier for the facility within which the delivery took place. This attribute is not relevant if the birth took place outside of a health care facility. The attribute repeats to allow entry of both state and nationally assigned identifiers. Within the II data type, use the root to record the identifying OID for the namespace that the identifier value is drawn from.*

- e. This participantRole **SHOULD** contain zero or one [0..1] **playingEntity** (CONF:124)  
 a. This playingEntity **SHALL** contain exactly one [1..1] **@classCode="PLC"** (CONF:127)  
 b. This playingEntity **MAY** contain zero or one [0..1] **desc** (CONF:125)

*A description of the place where the birth took place. The attribute is used for those cases in which the delivery occurred neither at a healthcare facility, nor at a place with a defined postal address. If this birth occurred en route, that is, in a moving conveyance, enter the city, town, village, or location where the child was first removed from the conveyance.*

*If the birth occurred in international air space or waters, enter "plane" or "boat."*

- c. This playingEntity **SHALL** contain exactly one [1..1] **@determinerCode="INSTANCE"** (CONF:128)  
 d. This playingEntity **SHOULD** contain zero or one [0..1] **name** (CONF:126)

*The name of the facility at which the delivery took place.*

7. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:95)

- Information on whether or not a home birth was planned is only collected for births that take place at home.*

- a. Contains **@typeCode="COMP"** *COMP*  
 b. Contains exactly one [1..1] *Planned Home Birth* (templateId: 2.16.840.1.113883.10.20.26.26)

8. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:96)

- a. Contains **@typeCode="COMP"** *COMP*  
 b. Contains exactly one [1..1] *Maternal Transfer* (templateId: 2.16.840.1.113883.10.20.26.35)

9. **MAY** contain zero or more [0..\*] **entryRelationship** (CONF:97)

- Characteristics of labor and delivery information is collected for a live birth certificate, but not for a fetal death report.*

- a. Contains **@typeCode="COMP"** *COMP*  
 b. Contains exactly one [1..1] *Characteristic of Labor and Delivery* (templateId: 2.16.840.1.113883.10.20.26.18)

10. **SHALL** contain at least one [1..\*] **entryRelationship** (CONF:98)

- a. Contains **@typeCode="COMP"** *COMP*  
 b. Contains exactly one [1..1] *Maternal Morbidity* (templateId: 2.16.840.1.113883.10.20.26.34)

11. **SHALL** contain at least one [1..\*] **entryRelationship** (CONF:99)

- There may be multiple risk factors recorded. At least one observation will be present in the case that none of cited risk factors are present.*

- a. Contains **@typeCode="COMP"** *COMP*  
 b. Contains exactly one [1..1] *Pregnancy Risk Factor* (templateId: 2.16.840.1.113883.10.20.26.44)

**12. SHALL** contain exactly one [1..1] **entryRelationship** (CONF:100)

*Information on the source of payment for the delivery. Not collected for a fetal death report.*

- a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode="COMP"** (CONF:111)
- b. This entryRelationship **SHALL** contain exactly one [1..1] **observation** (CONF:112)
  - a. This observation **SHALL** contain exactly one [1..1] **@classCode="OBS"** *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:113)
  - b. This observation **SHALL** contain exactly one [1..1] **code** (CONF:114)/**@code="68461-3"** *Payment source* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:457)

*A code value that indicates the nature of the observation - that it includes payment source information.*

- c. This observation **SHALL** contain exactly one [1..1] **@moodCode="EVN"** *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:115)
- d. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"** (CONF:116), which **SHALL** be selected from ValueSet **STATIC** (CONF:458)

*Information to identify the source of payment for charges associated with delivering the baby.*

```
<entry>
  <act classCode="SPCTRT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.31"/>
    <code code="57074-7" displayName="Labor and delivery process"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <performer typeCode="PRF">
      <assignedEntity>
        <id root="2.16.840.1.113883.4.6" extension="8044590788"/>
        <!-- Attender's NPI. It is possible to provide a local state ID as
well. -->
        <code code="76231001" displayName="Osteopath"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
        <assignedPerson classCode="PSN" determinerCode="INSTANCE">
          <name>
            <prefix>Dr.</prefix>
            <family>Smith</family>
            <given>Joseph</given>
          </name>
        </assignedPerson>
      </assignedEntity>
    </performer>
    <participant typeCode="LOC">
      <participantRole classCode="BIRTHPL">
        <id root="2.16.840.1.113883.4.6" extension="1244497890"/>
        <!-- Delivery Facility NPI. -->
        <code code="22232009" displayName="Hospital"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
        <addr>
          <city>Metropolis</city>
          <!-- "City, Town or Location of birth". -->
          <county>Metropolitan</county>
        </addr>
        <playingEntity classCode="PLC" determinerCode="INSTANCE">
          <name>Include the name of Facility where delivery occurred</name>
          <desc nullFlavor="NI"/>
        </playingEntity>
      </participantRole>
    </participant>
  <entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.35"/>
```

```

    <code code="73763-5" displayName="Mother was transferred
for maternal medical or fetal indications for delivery"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="false"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.18"/>
    <code code="73813-8" displayName="Characteristics of labor and
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="237001001" displayName="Augmentation of
labor" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.18"/>
    <code code="73813-8" displayName="Characteristics of labor and
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="130955003" displayName="Fetal distress"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.34"/>
    <code code="73781-7" displayName="Maternal morbidity"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="260413007" displayName="None"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="73211009" displayName="Diabetes
mellitus" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="38341003" displayName="Hypertensive
disorder, systemic arterial" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="65046005" displayName="Pregnancy
resulted from infertility treatment" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">

```

```

    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="63487001" displayName="Assisted
fertilization" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/
>
    </observation>
  </entryRelationship>
  <entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
      <code code="68461-3" displayName="Source of Payment"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <value xsi:type="CD" code="ZZZ" displayName="Unknown"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    </observation>
  </entryRelationship>
</act>
</entry>

```

## Last Menstrual Period Date

[Observation: templateId 2.16.840.1.113883.10.20.26.33]

*The date the mother's last normal menstrual period began.*

1. **SHALL** contain exactly one [1..1] templateId ( ) such that it
  - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.26.33"
2. **SHALL** contain exactly one [1..1] @classCode="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:224)
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:226)
4. **SHALL** contain exactly one [1..1] code (CONF:225)/@code="8665-2" *Date last menstrual period* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:466)
  - A code value that indicates the nature of the observation - it contains the date of the last menstrual period.
5. **SHALL** contain exactly one [1..1] value with @xsi:type="TS" (CONF:227)
  - The date the mother's last normal menstrual period began. (month, day and year.)

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.33"/>
    <code code="8665-2" displayName="Date last menstrual period"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="TS" value="20120401"/>
  </observation>
</entry>

```

## Maternal Morbidity

[Observation: templateId 2.16.840.1.113883.10.20.26.34]

*Information on whether the mother suffered from one or more of a list of recognized maternal morbidities during the labor and delivery process.*

1. **SHALL** contain exactly one [1..1] templateId ( ) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.34"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:261)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:264)
4. **SHALL** contain exactly one [1..1] **code** (CONF:262)/**@code**="73781-7" *Maternal morbidity* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:477)
  - *A code value that indicates the nature of the observation - it records the nature of the maternal morbidity about which information is provided.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:265), which **SHALL** be selected from ValueSet **STATIC** (CONF:478)

```
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.34"/>
    <code code="73781-7" displayName="Maternal morbidity"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="260413007" displayName="None"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
```

## Maternal Transfer

[Observation: templateId 2.16.840.1.113883.10.20.26.35]

*Information on whether or not the mother had been transferred to the delivery facility from another facility based on maternal medical or fetal indications.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.35"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:420)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:422)
4. **SHALL** contain exactly one [1..1] **code** (CONF:421)/**@code**="73763-5" *Mother was transferred for maternal medical or fetal indications for delivery* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:527)
  - *A code value that indicates the nature of the observation - it refers to the transfer of the mother to the facility prior to delivery.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="BL" (CONF:423)
  - *A Boolean value to indicate whether or not the mother was transferred to the facility prior to delivery.*
6. **MAY** contain zero or one [0..1] **participant** (CONF:424)

*Record the source of transfer if the mother has been transferred from another facility. If the name of the facility is not known, enter "unknown."*

- a. This participant **SHALL** contain exactly one [1..1] **@typeCode**="ORG" (CONF:425)
- b. This participant **SHALL** contain exactly one [1..1] **participantRole** (CONF:426)
  - a. This participantRole **SHALL** contain exactly one [1..1] **@classCode**="SDLOC" (CONF:427)
  - b. This participantRole **SHALL** contain exactly one [1..1] **scopingEntity** (CONF:428)



- a. This scopingEntity **SHALL** contain exactly one [1..1] **@classCode="ORG"** (CONF:429)
- b. This scopingEntity **SHALL** contain exactly one [1..1] **@determinerCode="INSTANCE"** (CONF:430)
- c. This scopingEntity **SHALL** contain exactly one [1..1] **name** (CONF:431)

*The name of the facility the mother was transferred from.*

```
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.35"/>
    <code code="73763-5" displayName="Mother was transferred
for maternal medical or fetal indications for delivery"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="false"/>
  </observation>
</entryRelationship>
```

## Method of Delivery

[Procedure: templateId 2.16.840.1.113883.10.20.26.45]

*The physical process by which the complete delivery was effected. The template captures information about: a) attempted use of forceps, b) attempted delivery with vacuum extraction, c) fetal presentation at birth, d) final route and method of delivery, e) attempted trial of labor (if Cesarean delivery). Within a fetal death report, information about hysterotomy/Hysterectomy is collected as well.*

1. **SHALL** contain exactly one [1..1] **templateId ( )** such that it
  - a. **SHALL** contain exactly one [1..1] **@root="2.16.840.1.113883.10.20.26.45"**
2. **SHALL** contain exactly one [1..1] **@classCode="PROC"** (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:281)
3. **SHALL** contain exactly one [1..1] **@moodCode="EVN"** *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:284)
4. **SHALL** contain exactly one [1..1] **code** (CONF:282)/**@code="72149-8"** *Delivery method* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:283)
  - *A code value that indicates the nature of the procedure, that it records the method of delivery.*
5. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:501)
  - a. This entryRelationship **SHALL** contain exactly one [1..1] **@classCode="OBS"** *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:321)
  - b. This entryRelationship **SHALL** contain exactly one [1..1] **code** (CONF:322)/**@code="73761-9"** *Fetal presentation at birth* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:509)
 

*A code value that indicates the nature of the observation - fetal presentation.*
  - c. This entryRelationship **SHALL** contain exactly one [1..1] **@moodCode="EVN"** *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:323)
  - d. This entryRelationship **SHALL** contain exactly one [1..1] **value** with **@xsi:type="CD"** (CONF:324), which **SHALL** be selected from ValueSet **STATIC** (CONF:325)
 

*Information on the presentation of the fetus at the point of delivery.*
6. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:502)
  - a. This entryRelationship **SHALL** contain exactly one [1..1] **@classCode="OBS"** *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:290)

- b. This entryRelationship **SHALL** contain exactly one [1..1] **code** (CONF:291)/**@code**="73762-7" *Final route and method of delivery* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:504)

*A code value that indicates the nature of the observation - the method and route of delivery.*

- c. This entryRelationship **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:292)
- d. This entryRelationship **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:293), which **SHALL** be selected from ValueSet **STATIC** (CONF:294)

*The method and route of delivery.*

- e. This entryRelationship **MAY** contain zero or one [0..1] **entryRelationship** (CONF:505)

*If the newborn has been delivered by Cesarean section, the report must record whether a trial of labor was attempted.*

- a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="COMP" (CONF:296)

- b. This entryRelationship **SHALL** contain exactly one [1..1] **observation** (CONF:506)

- a. This observation **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:298)

- b. This observation **SHALL** contain exactly one [1..1] **code** (CONF:299)/**@code**="73760-1" *If cesarean, a trial of labor was attempted* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:507)

*Indicates the observation contains information on a trial of labor.*

- c. This observation **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:300)

- d. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="BL" (CONF:301)

*Information on whether, in the case of a Cesarean delivery, a trial of labor was attempted.*

*If the newborn has been delivered by Cesarean section, the report must record whether a trial of labor was attempted.*

- 7. **SHALL** contain exactly one [1..1] **entryRelationship** (CONF:503)

- a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="COMP" (CONF:315)

- b. This entryRelationship **SHALL** contain exactly one [1..1] **observation** (CONF:316)

- a. This observation **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:317)

- b. This observation **SHALL** contain exactly one [1..1] **code** (CONF:318)/**@code**="73759-3" *Hysterotomy or hysterectomy was performed at delivery* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:508)

*A code value that indicates the nature of the observation - that it indicates whether a hysterotomy or hysterectomy was performed.*

- c. This observation **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:319)

- d. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="BL" (CONF:320)

*Information to identify whether a hysterotomy or hysterectomy was performed as a method of delivering the fetus.*

```
<entry>
  <procedure classCode="PROC" moodCode="EVN" negationInd="false">
    <templateId root="2.16.840.1.113883.10.20.26.45"/>
    <code code="72149-8" displayName="Delivery method"
      codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  </procedure>
</entry>
```

```

    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="73761-9" displayName="Fetal presentation at birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="CD" code="70028003" displayName="Vertex
presentation" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
      </observation>
    </entryRelationship>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="73762-7" displayName="Final route and method of
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="CD" code="200144004" displayName="Deliveries by
cesarean" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
        <entryRelationship typeCode="COMP">
          <observation classCode="OBS" moodCode="EVN">
            <code code="73760-1" displayName="If cesarean, a trial of labor
was attempted" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
            <value xsi:type="BL" value="true"/>
          </observation>
        </entryRelationship>
      </observation>
    </entryRelationship>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="73762-7" displayName="Final route and method of
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="CD" code="200144004" displayName="Deliveries by
cesarean" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
        <entryRelationship typeCode="COMP">
          <observation classCode="OBS" moodCode="EVN">
            <code code="73759-3" displayName="Hysterotomy or hysterectomy
was performed at delivery" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
            <value xsi:type="BL" value="false"/>
          </observation>
        </entryRelationship>
      </observation>
    </entryRelationship>
  </procedure>
</entry>

```

## Mother's Vital Signs Observation

[Observation: templateId 2.16.840.1.113883.10.20.26.46]

*A systematic measure for evaluating the physical condition of the infant at specific intervals following birth.*

*The consolidated CDA Vital Signs Observation template has been used. The value set for observation.code indicates which vital sign information is collected.*

1. **SHALL** contain exactly one [1..1] templateId ( ) such that it
  - a. **SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.26.46"
2. **SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:334)
3. **SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:337)
4. **SHALL** contain exactly one [1..1] code (CONF:335), which **SHALL** be selected from ValueSet STATIC (CONF:541)

- A code value that indicates the nature of the observation. The value is drawn from the Maternal Vital Signs value set.

**5. SHALL** contain exactly one [1..1] **value** (CONF:339)

- The measured vital sign amount. The meaning of the observation is dependent on the value of observation code.

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.46"/>
    <code code="69461-2" displayName="Body weight mother -- at
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="175" unit="lb"/>
  </observation>
</entry>
```

## Newborn's Vital Signs Observation

[Observation: templateId 2.16.840.1.113883.10.20.26.50]

A systematic measure for evaluating the physical condition of the infant at specific intervals following birth.

The consolidated CDA Vital Signs Observation template has been used. The value set for observation.code indicates which vital sign information is collected.

**1. SHALL** contain exactly one [1..1] templateId ( ) such that it

- SHALL** contain exactly one [1..1] @root="2.16.840.1.113883.10.20.26.50"

**2. SHALL** contain exactly one [1..1] @classCode="OBS" Observation (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:334)

**3. SHALL** contain exactly one [1..1] @moodCode="EVN" Event (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:337)

**4. SHALL** contain exactly one [1..1] code (CONF:335), which **SHALL** be selected from ValueSet **STATIC** (CONF:511)

- A code value that indicates the nature of the observation. The value is drawn from the Newborn Vital Signs value set.

**5. SHALL** contain exactly one [1..1] **value** (CONF:339)

- The measured vital sign amount. The meaning of the observation is dependent on the value of observation code.

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.50"/>
    <code code="8339-4" displayName="Body weight at birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="2980" unit="g"/>
  </observation>
</entry>
```

## Number of Births Now Living

[Observation: templateId 2.16.840.1.113883.10.20.26.36]

*The total number of previous live-born infants now living. For multiple deliveries include all live-born infants before this infant in the pregnancy. If the first born, do not include this infant.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.36"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:208)
3. **SHALL** contain exactly one [1..1] **@moodCode** (CONF:210)
4. **SHALL** contain exactly one [1..1] **code** (CONF:209)/**@code**="11638-4" *Births still living* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:462)
  - *A code value that indicates the nature of the observation - it contains the total number of previous live-born infants now living.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="INT" (CONF:211)
  - *The total number of previous live-born infants now living. The entry is a non-negative integer within the range from zero to 30.*

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.36"/>
    <code code="11638-4" displayName="Number of births now living"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="INT" value="2"/>
  </observation>
</entry>
```

## Number of Infants Born Alive

[Observation: templateId 2.16.840.1.113883.10.20.26.37]

*A measure of the number of infants born alive within this delivery.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.37"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:344)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:346)
4. **SHALL** contain exactly one [1..1] **code** (CONF:345)/**@code**="73773-4" *Number of infants in this delivery born alive* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:513)
  - *A code value that indicates the nature of the observation - it captures the number of infants born alive within a delivery.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="INT" (CONF:347)
  - *The number of infants born alive. The entry is a non-negative integer within the range from zero to 12.*

```
<entry>
```

```

<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.26.37"/>
  <code code="73773-4" displayName="Number of infants in this delivery
born alive" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  <value xsi:type="INT" value="2"/>
</observation>
</entry>

```

## Number of Live Births now Dead

[Observation: templateId 2.16.840.1.113883.10.20.26.38]

*The total number of previous live-born infants now dead. For multiple deliveries include all live-born infants before this infant in the pregnancy who are now dead. If the first born, do not include this infant.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.38"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:215)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:217)
4. **SHALL** contain exactly one [1..1] **code** (CONF:216)/**@code**="68496-9" *Live births now dead* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:464)
  - *A code value that indicates the nature of the observation - it records the total number of previous live-born infants now dead.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="INT" (CONF:218)
  - *The total number of previous live-born infants now dead. The entry is a non-negative integer within the range from zero to 30.*

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.38"/>
    <code code="68496-9" displayName="Number of live births now dead"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="INT" value="0"/>
  </observation>
</entry>

```

## Obstetric Procedure

[Procedure: templateId 2.16.840.1.113883.10.20.26.39]

*Information on whether a particular medical treatment or invasive/manipulative procedure was performed during this pregnancy specifically in the treatment of the pregnancy, management of labor and/or delivery.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.39"
2. **SHALL** contain exactly one [1..1] **@classCode**="PROC" (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:239)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:240)
4. **SHALL** contain exactly one [1..1] **@negationInd** (CONF:241)

- *The negation indicator defines whether or not the specified procedure was performed during the course of delivery. A value of true indicates a procedure was NOT performed.*
5. **SHALL** contain exactly one [1..1] **code** with @xsi:type="CE" (CONF:242), which **SHALL** be selected from ValueSet **STATIC** (CONF:243)
- *A code value that indicates the nature of the procedure - it specifies the nature of the obstetric procedure about which information is provided.*

```

<entry>
  <procedure classCode="PROC" moodCode="EVN" negationInd="false">
    <templateId root="2.16.840.1.113883.10.20.26.39"/>
    <code code="240278000" displayName="External cephalic version"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </procedure>
</entry>
<entry>
  <procedure classCode="PROC" moodCode="EVN" negationInd="false">
    <templateId root="2.16.840.1.113883.10.20.26.45"/>
    <code code="72149-8" displayName="Delivery method"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.44"/>
        <code code="73761-9" displayName="Fetal presentation at birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="CD" code="70028003" displayName="Vertex
presentation" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
      </observation>
    </entryRelationship>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.44"/>
        <code code="73762-7" displayName="Final route and method of
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="CD" code="200144004" displayName="Deliveries by
cesarean" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
      </entryRelationship typeCode="COMP">
        <observation classCode="OBS" moodCode="EVN">
          <templateId root="2.16.840.1.113883.10.20.26.44"/>
          <code code="73760-1" displayName="If cesarean, a trial of labor
was attempted" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
          <value xsi:type="BL" value="true"/>
        </observation>
      </entryRelationship>
    </observation>
  </entryRelationship>
</procedure>
</entry>

```

## Onset of Labor

[Observation: templateId 2.16.840.1.113883.10.20.26.32]

*Serious complications experienced by the mother associated with labor and delivery including: Premature Rupture of the Membranes, Precipitous Labor and Prolonged Labor.*

1. **SHALL** contain exactly one [1..1] templateId ( ) such that it

- a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.32"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:229)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:232)
4. **SHALL** contain exactly one [1..1] **code** (CONF:230)/**@code**="73774-2" *Onset of labor* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:467)
  - *A code value that indicates the nature of the observation - it records a complication associated with labor and delivery.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="CD" (CONF:233), which **SHALL** be selected from ValueSet **STATIC** (CONF:468)

```
<entry typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.32"/>
    <code code="73774-2" displayName="Onset of Labor"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="260413007" displayName="None"
codeSystem="2.16.840.1.113883.221.5" codeSystemName="HL70064"/>
  </observation>
</entry>
```

## Other Pregnancy Outcome

[Observation: templateId 2.16.840.1.113883.10.20.26.40]

*Total number of other pregnancy outcomes that did not result in a live birth. Includes pregnancy losses of any gestation age. For multiple deliveries include all previous pregnancy losses before this infant in this pregnancy and in previous pregnancies.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.40"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:219)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:221)
4. **SHALL** contain exactly one [1..1] **code** (CONF:220)/**@code**="69043-8" *Other pregnancy outcomes* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:465)
  - *A code to indicate the observation contains information on the total number of other pregnancy outcomes that did not result in a live birth.*
5. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:223)
  - *The date that the last pregnancy that did not result in a live birth ended. The effective time for the other pregnancy outcomes is the interval between the first such outcome and the latest. Value the high property of the interval data type.*
6. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="INT" (CONF:222)
  - *Total number of other pregnancy outcomes that did not result in a live birth. The entry is a non-negative integer within the range from zero to 30.*

```
<entry>
```



```

<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.26.40"/>
  <code code="69043-8" displayName="Other pregnancy outcomes"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  <effectiveTime nullFlavor="NA"/>
  <value xsi:type="INT" value="0"/>
</observation>
</entry>

```

## Planned Home Birth

[Observation: templateId 2.16.840.1.113883.10.20.26.26]

*Information on whether a home birth was planned for the infant.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.26"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:394)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:396)
4. **SHALL** contain exactly one [1..1] **code** (CONF:395)/**@code**="73765-0" *Planned to deliver at home* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:520)
  - *A code value that indicates the nature of the observation - it records whether the parents planned to deliver at home.*
5. **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="BL" (CONF:397)
  - *A Boolean value to indicate whether the mother planned to deliver at home.*

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.26"/>
    <code code="73765-0" displayName="Planned to deliver at home"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="false"/>
  </observation>
</entry>

```

## Plurality

[Observation: templateId 2.16.840.1.113883.10.20.26.41]

*The number of fetuses delivered live or dead at any time in the pregnancy regardless of gestational age or if the fetuses were delivered at different dates in the pregnancy.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.41"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:340)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:342)
4. **SHALL** contain exactly one [1..1] **code** (CONF:341)/**@code**="57722-1" *Birth plurality* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:512)

- *A code value that indicates the nature of the observation - it records the plurality of the delivery.*
5. **SHALL** contain exactly one [1..1] **value** with @xsi:type="INT" (CONF:343)
- *A measure of the plurality of the pregnancy.*

```
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.41"/>
    <code code="57722-1" displayName="Birth plurality"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="INT" value="1"/>
  </observation>
</entry>
```

## Pregnancy Risk Factor

[Observation: templateId 2.16.840.1.113883.10.20.26.44]

*Information on one or more risk factors of the mother during pregnancy.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.44"
2. **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:244)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:247)
4. **SHALL** contain exactly one [1..1] **code** (CONF:245)/**@code**="73775-9" *Risk factors in this pregnancy* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:472)
  - *A code value that indicates the nature of the observation - the nature of the risk factor about which information is provided.*
5. **SHALL** contain exactly one [1..1] **value** with @xsi:type="CD" (CONF:248), which **SHALL** be selected from ValueSet **STATIC** (CONF:473)
6. **MAY** contain zero or one [0..1] **entryRelationship** (CONF:249)

*If a risk factor of previous Cesarean delivery is recorded, the number of previous Cesarian deliveries should be noted.*

- a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="COMP" (CONF:250)
- b. This entryRelationship **SHALL** contain exactly one [1..1] **observation** (CONF:251)
  - a. This observation **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:252)
  - b. This observation **SHALL** contain exactly one [1..1] **code** (CONF:253)/**@code**="68497-7" *Previous cesarean deliveries* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:474)

*A code value that indicates the nature of the observation - the number of previous Cesarean deliveries.*

- c. This observation **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:254)
- d. This observation **SHALL** contain exactly one [1..1] **value** with @xsi:type="INT" (CONF:255)

*The number of previous Cesarean deliveries.*

```
<entryRelationship typeCode="COMP">
```

```

<observation classCode="OBS" moodCode="EVN">
  <templateId root="2.16.840.1.113883.10.20.26.44"/>
  <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  <value xsi:type="CD" code="200144004" displayName="Deliveries by
cesarean" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  <entryRelationship typeCode="COMP">
    <observation classCode="OBS" moodCode="EVN">
      <code code="68497-7" displayName="Previous cesarean deliveries"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <value xsi:type="INT" value="1"/>
    </observation>
  </entryRelationship>
</observation>
</entryRelationship>

```

## Pre-Natal Care

[Act: templateId 2.16.840.1.113883.10.20.26.42]

*Information on whether the mother received prenatal care, and on the dates of prenatal care visits.*

1. **SHALL** contain exactly one [1..1] **templateId** ( ) such that it
  - a. **SHALL** contain exactly one [1..1] **@root**="2.16.840.1.113883.10.20.26.42"
2. **SHALL** contain exactly one [1..1] **@classCode**="ACT" *Act* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:183)
3. **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:187)
4. **SHALL** contain exactly one [1..1] **@negationInd** (CONF:188)
  - *Value the negation indicator as true if the mother DID receive prenatal care.*
5. **SHALL** contain exactly one [1..1] **code** (CONF:184)/**@code**="73776-7" *No-prenatal care* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:185)
  - *A code value that indicates the nature of the observation - it indicates whether the mother received any prenatal care.*
6. **SHOULD** contain zero or one [0..1] **effectiveTime** (CONF:186)
  - *The time interval is used to indicate the period of time during which prenatal care was provided. The date of the first prenatal care visit is recorded as the beginning of the prenatal care time interval. The date of the last visit is recorded as the end of the prenatal time interval.*
7. **SHOULD** contain zero or one [0..1] **entryRelationship** (CONF:189)
  - a. This entryRelationship **SHALL** contain exactly one [1..1] **@typeCode**="COMP" (CONF:191)
  - b. This entryRelationship **SHALL** contain exactly one [1..1] **observation** (CONF:190)
    - a. This observation **SHALL** contain exactly one [1..1] **@classCode**="OBS" *Observation* (CodeSystem: 2.16.840.1.113883.5.6 HL7ActClass) (CONF:192)
    - b. This observation **SHALL** contain exactly one [1..1] **code** (CONF:193)/**@code**="68493-6" *Prenatal visits for this pregnancy* (CodeSystem: 2.16.840.1.113883.6.1 LOINC) (CONF:461)
    - c. This observation **SHALL** contain exactly one [1..1] **@moodCode**="EVN" *Event* (CodeSystem: 2.16.840.1.113883.5.1001 HL7ActMood) (CONF:194)
    - d. This observation **SHALL** contain exactly one [1..1] **value** with **@xsi:type**="INT" (CONF:195)

*The number of prenatal visits for this pregnancy. The entry is a non-negative integer within the range from zero to 98.*

```

<entry>
  <act classCode="ACT" moodCode="EVN" negationInd="true">
    <templateId root="2.16.840.1.113883.10.20.26.42"/>
    <code code="73776-7" displayName="No Prenatal Care"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <effectiveTime>
      <low value="20120521"/>
      <high value="20121218"/>
    </effectiveTime>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="68493-6" displayName="Prenatal visits for this
pregnancy" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="INT" value="8"/>
      </observation>
    </entryRelationship>
  </act>
</entry>

```



---

# Chapter

# 5

---

## OTHER CLASSES

---

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



# Chapter

# 6

## VALUE SETS

### Topics:

- *Apgar Assessment (NCHS)*
- *Autopsy Examination (NCHS)*
- *Birth and Fetal Death Financial Class (NCHS)*
- *Birth Attendant Titles (NCHS)*
- *Birth or Delivery Occurred (NCHS)*
- *Certifier Titles (NCHS)*
- *Delivery Routes (NCHS)*
- *Fetal Death Time Point (NCHS)*
- *Fetal Presentations (NCHS)*
- *Histological Placental Examination (NCHS)*
- *Infections During Pregnancy Fetal Death (NCHS)*
- *Infections During Pregnancy - Live Birth (NCHS)*
- *Karyotype Down Syndrome (NCHS)*
- *Karyotype Suspected Chromosomal Disorder (NCHS)*
- *LOINC*
- *Labor and Delivery Characteristics (NCHS)*
- *Maternal Morbidities (NCHS)*
- *Maternal Vital Signs (NCHS)*
- *Newborn Abnormal Conditions (NCHS)*
- *Newborn Congenital Anomalies (NCHS)*
- *Newborn Vital Signs (NCHS)*
- *Null Flavor*
- *Obstetric Procedures (NCHS)*
- *Onset Labor (NCHS)*
- *PHIN VS (CDC Local Coding System)*

The following tables summarize the value sets used in this Implementation Guide.



- *Pregnancy Risk Factors (NCHS)*
- *SNOMEDCT*
- *Source of Payment Typology (PHDSC)*
- *Source of Payment Typology (PHDSC) Code System*

## Apgar Assessment (NCHS)

Value Set	Apgar Assessment (NCHS) - 2.16.840.1.114222.4.11.7210
Code System	LOINC - 2.16.840.1.113883.6.1
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7210">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7210</a>
Definition	The value set contains systematic measures as to the question for evaluating the physical condition of the infant at specific intervals following birth.

## Autopsy Examination (NCHS)

Value Set	Autopsy Examination (NCHS) - 2.16.840.1.114222.4.11.7137
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7137">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7137</a>
Definition	The value set contains the list of values used to indicate whether or not an autopsy was performed.

## Birth and Fetal Death Financial Class (NCHS)

Value Set	Birth and Fetal Death Financial Class (NCHS) - 2.16.840.1.114222.4.11.7163
Code System	Source of Payment Typology (PHDSC) Code System - 2.16.840.1.113883.221.5
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7163">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7163</a>
Definition	The value set contains the list of values used to indicate the principle source of payment for the labor and delivery. Note, the Public Health Data Consortium Source of Payment Typology is being used as the primary source for codes within the value set.

## Birth Attendant Titles (NCHS)

Value Set	Birth Attendant Titles (NCHS) - 2.16.840.1.114222.4.11.7111
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7111">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7111</a>
Definition	The value set contains the list of titles used by persons (attendant) responsible for delivering a child/fetus. The attendant at birth/delivery is defined as the individual physically present at the delivery who is responsible for the delivery.

## Birth or Delivery Occurred (NCHS)

Value Set	Birth or Delivery Occurred (NCHS) - 2.16.840.1.114222.4.11.7124
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7124">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7124</a>
Definition	The value set contains the list of values used to indicate the type of place where birth or delivery occurred.

## Certifier Titles (NCHS)

Value Set	Certifier Titles (NCHS) - 2.16.840.1.114222.4.11.7212
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7212">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7212</a>
Definition	To reflect the title used by death certifier to denote professional role.

## Delivery Routes (NCHS)

Value Set	Delivery Routes (NCHS) - 2.16.840.1.114222.4.11.7118
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7118">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7118</a>
Definition	The value set contains the list of the possible routes by which the infant or fetus may be delivered.

## Fetal Death Time Point (NCHS)

Value Set	Fetal Death Time Point (NCHS) - 2.16.840.1.114222.4.11.7112
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7112">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7112</a>
Description	A list of time points during the delivery process at which the fetal death is thought to have occurred. Note, SNOMED is being used as the primary source for codes within the value set.

## Fetal Presentations (NCHS)

Value Set	Fetal Presentations (NCHS) - 2.16.840.1.114222.4.11.7113
Code System	SNOMEDCT - 2.16.840.1.113883.6.96

Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7113">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7113</a>
Definition	The value set contains the list of the different presentations (orientations within the mother's womb) that a fetus may be in prior to delivery

## Histological Placental Examination (NCHS)

Value Set	Histological Placental Examination (NCHS) - 2.16.840.1.114222.4.11.7138
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7138">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7138</a>
Definition	The value set contains the list of values used to indicate whether or not a histological placental examination was performed.

## Infections During Pregnancy Fetal Death (NCHS)

Value Set	Infections During Pregnancy Fetal Death (NCHS) - 2.16.840.1.114222.4.11.7135
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7135">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7135</a>
Definition	The value set contains the list of selected infections that the mother had or was treated for during the course of this pregnancy for fetal death.

## Infections During Pregnancy - Live Birth (NCHS)

Value Set	Infections During Pregnancy - Live Birth (NCHS) - 2.16.840.1.114222.4.11.6070
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6070">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.6070</a>
Definition	The value set contains the list of selected infections that the mother had or was treated for during the course of this pregnancy for live birth.

## Karyotype Down Syndrome (NCHS)

Value Set	Karyotype Down Syndrome (NCHS) - 2.16.840.1.114222.4.11.7116
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7116">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7116</a>
Definition	The value set contains the list of values that indicate whether the newborn/fetus is confirmed or pending if there is a diagnosis of Down syndrome, Trisomy 21.

## Karyotype Suspected Chromosomal Disorder (NCHS)

Value Set	Karyotype Suspected Chromosomal Disorder (NCHS) - 2.16.840.1.114222.4.11.7115
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7115">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7115</a>
Definition	The value set contains the list of values that indicate whether the newborn/fetus is confirmed or pending if there is a diagnosis of suspected chromosomal disorder (may include Trisomy 21).

## LOINC

Value Set	LOINC
Description	A database of universal identifiers for laboratory and other clinical observations. The laboratory portion of the LOINC database contains the usual categories of chemistry, hematology, serology, microbiology (including parasitology and virology), and toxicology; as well as categories for drugs and the cell counts typically reported on a complete blood count or a cerebrospinal fluid cell count. Antibiotic susceptibilities are a separate category. The clinical portion of the LOINC database includes entries for vital signs, hemodynamics, intake/output, EKG, obstetric ultrasound, cardiac echo, urologic imaging, gastroendoscopic procedures, pulmonary ventilator management, selected survey instruments, and other clinical observations. For more information, visit <a href="http://www.loinc.org">www.loinc.org</a>

## Labor and Delivery Characteristics (NCHS)

Value Set	Labor and Delivery Characteristics (NCHS) - 2.16.840.1.114222.4.11.7117
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7117">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7117</a>
Definition	The value set contains the list of options to indicate information about the course of labor and delivery.

## Maternal Morbidities (NCHS)

Value Set	Maternal Morbidities (NCHS) - 2.16.840.1.114222.4.11.7119
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7119">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7119</a>
Definition	The value set contains the list of possible maternal morbidity values when serious complications were experienced by the mother associated with labor and delivery.

## Maternal Vital Signs (NCHS)

Value Set	Maternal Vital Signs (NCHS) - 2.16.840.1.114222.4.11.7209
Code System	LOINC - 2.16.840.1.113883.6.1
Version	Dynamic
Source URL	<a href="https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7209">https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7209</a>
Definition	The value set contains the list as to the question of vital sign items captured for a mother. Note, LOINC is being used as the primary source for codes within the value set.

## Newborn Abnormal Conditions (NCHS)

Value Set	Newborn Abnormal Conditions (NCHS) - 2.16.840.1.114222.4.11.7121
Code System	PHIN VS (CDC Local Coding System) - 2.16.840.1.114222.4.5.274
Version	Dynamic
Source URL	<a href="https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7121">https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7121</a>
Definition	The value set contains the list of values used to indicate specific disorders or significant morbidity experienced by the newborn infant.

## Newborn Congenital Anomalies (NCHS)

Value Set	Newborn Congenital Anomalies (NCHS) - 2.16.840.1.114222.4.11.7122
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7122">https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7122</a>
Definition	The value set contain the list of values use to specify malformations of the newborn diagnosed prenatally or after delivery.

## Newborn Vital Signs (NCHS)

Value Set	Newborn Vital Signs (NCHS) - 2.16.840.1.114222.4.11.7208
Code System	LOINC - 2.16.840.1.113883.6.1
Version	Dynamic
Source URL	<a href="https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7208">https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7208</a>
Definition	The value set contains the list of vital sign information captured for a newborn or delivered fetus.

## Null Flavor

Value Set	NullFlavor
-----------	------------

Description	HL7 V3 coding system with codes to indicate the null responses (e.g. unknown, other, not present).
-------------	--

## Obstetric Procedures (NCHS)

Value Set	Obstetric Procedures (NCHS) - 2.16.840.1.114222.4.11.7136
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7136">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7136</a>
Definition	The value set contains the list of values used to specify selected medical treatments or invasive / manipulative procedures performed during this pregnancy specifically for management of labor and / or delivery.

## Onset Labor (NCHS)

Value Set	Onset Labor (NCHS) - 2.16.840.1.114222.4.11.7123
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7123">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7123</a>
Definition	The value set contains the list of values used to indicate serious complications experienced by the mother associated with labor and delivery.

## PHIN VS (CDC Local Coding System)

Value Set	PHIN VS (CDC Local Coding System)
Description	CDC Public Health Information Network local coding system used for creating the concepts that are not available in the Standard Development Organization(SDO) Vocabulary like SNOMED CT, LOINC, ICD-9, etc.

## Pregnancy Risk Factors (NCHS)

Value Set	Pregnancy Risk Factors (NCHS) - 2.16.840.1.114222.4.11.7126
Code System	SNOMEDCT - 2.16.840.1.113883.6.96
Version	Dynamic
Source URL	<a href="https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7126">https://phinivads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.7126</a>
Definition	The value set contains the list of values used to indicate selected medical risk factors of the mother during this pregnancy.

## SNOMEDCT

Value Set	SNOMEDCT
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Description	SNOMED CT consists of a technical design, core content architecture, and Core content. SNOMED CT Core content includes the technical specification of SNOMED CT and fully integrated multi-specialty clinical content. The Core content also includes a concepts table, description table, relationships table, history table, ICD-9-CM mapping, and Technical Reference Guide. Additionally, SNOMED CT provides a framework to manage language dialects, clinically relevant subsets, qualifiers and extensions, as well as concepts and terms unique to particular organizations or localities. For more information visit <a href="http://www.ihtsdo.com">www.ihtsdo.com</a>
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## Source of Payment Typology (PHDSC)

Value Set	Source of Payment Typology (PHDSC) - 2.16.840.1.114222.4.11.3591
Code System	Source of Payment Typology (PHDSC) Code System - 2.16.840.1.113883.221.5
Version	Dynamic
Source URL	<a href="https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3591">https://phinvads.cdc.gov/vads/ViewValueSet.action?oid=2.16.840.1.114222.4.11.3591</a>
Definition	The development of a standard source of payment classification system is a high priority for public health and can be used for a wide variety of public health activities such as monitoring healthcare access and documenting disparities.

## Source of Payment Typology (PHDSC) Code System

Value Set	Source of Payment Typology (PHDSC) Code System
Description	The Source of Payment Typology was developed to create a standard for reporting payer type data that will enhance the payer data classification; it is also intended for use by those collecting data, or analyzing healthcare claims information. The typology identifies broad Payer categories with related subcategories that are more specific. This format provides analysts with flexibility to either use payer codes at a highly detailed level or to roll up codes to broader hierarchical categories for comparative analyses across payers and locations. The Source of Payment Typology code system is used as a source for categorizing the payment sources for birth and fetal death related hospitalization





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# Chapter 7

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## Example Messages

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### Topics:

- [Birth Report Sample](#)
- [Fetal Death Report Sample](#)

## Birth Report Sample

The sample message has been constructed to illustrate the use of this implementation guide to constrain CDA in the representation of a fetal death report.

```
<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="CDA.xsl"?>
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/
voc" xmlns:sdtc="urn:hl7-org:sdtc" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 CDA_SDTC.xsd"
  classCode="DOCCLIN" moodCode="EVN">
  <!--
  *****
  CDA Header
  *****
  -->
  <realmCode code="US"/>
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
  <templateId root="2.16.840.1.113883.10.20.26.1"/>
  <!-- conforms to the guidance of the IG -->
  <id root="1.22.33" extension="0810USA04591"/>
  <!-- Vital Records document identifier. Root = OID chosen by the sender.
  -->
  <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
  code="68998-4" displayName="US standard certificate of live birth"/>
  <title>Birth Report</title>
  <!-- Title of the report-->
  <effectiveTime value="20121010"/>
  <!-- Date the report was prepared -->
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
  <!--Confidentiality is a contextual component of CDA, where the value
  expressed in the header holds true for the entire document, unless
  overridden by a nested value and 2.16.840.1.113883.5.25 is the OID for
  HL7-->
  <languageCode code="en-US"/>
  <!--LanguageCode example with language and country-->
  <!--
  *****
  CDA Header: Participants
  *****
  -->
  <recordTarget typeCode="RCT">
    <!--The record target includes information regarding the mother.-->
    <patientRole classCode="PAT">
      <id root="2.33.44" extension="V000-013-0001-0002"/>
      <!-- Mother's Medical Record Number. The root OID for the identifier
      indicates the name space the identifier value is drawn from. -->
      <addr>
        <streetAddressLine>23 Anywhere Lane</streetAddressLine>
        <city>Metropolis</city>
        <state>Empire State</state>
        <postalCode>893442</postalCode>
      </addr>
      <patient classCode="PSN" determinerCode="INSTANCE">
        <name>
          <family>Mother's family name</family>
          <given>Mother's given Name</given>
        </name>
      </patient>
    </patientRole>
  </recordTarget>
```

```

<!--
*****
CDA Header: The Author of the Patient Narrative Document
*****
-->
<author typeCode="AUT">
  <time nullFlavor="NI"/>
  <assignedAuthor classCode="ASSIGNED">
    <id extension="300-23"/>
    <!-- Document Author identifier. The root OID for the document author
    identifier indicates the name space the identifier value is drawn from. -->
  </assignedAuthor>
</author>
<custodian typeCode="CST">
  <assignedCustodian classCode="ASSIGNED">
    <representedCustodianOrganization classCode="ORG"
    determinerCode="INSTANCE">
      <id root="2.77.38.4" extension="ABX_44445USA"/>
      <!-- Document Custodian identifier. The root OID for the custodian
      identifier indicates the name space the identifier value is drawn from. -->
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
<!--
*****
Birth Report Content (CDA BODY)
*****
-->
  <component>
    <structuredBody>
      <!--
      *****
Prenatal Testing and Surveillance Section
*****
-->
      <component>
        <section classCode="DOCSECT" moodCode="EVN">
          <templateId root="2.16.840.1.113883.10.20.26.3"/>
          <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
          code="57078-8" displayName="Antenatal Testing and Surveillance Section"/>
          <text>
            <list>
              <item ID="AntenatalTesting.1">
                <!-- (Narrative Block: Unstructured) -->
                <caption xsi:type="StrucDoc.Caption">Prenatal Care Received</
caption>
                  <content>Yes</content>
                </item>
              <item ID="AntenatalTesting.2">
                <!-- (Narrative Block: Unstructured) -->
                <caption xsi:type="StrucDoc.Caption">First Visit Date</caption>
                <content>20120521</content>
              </item>
              <item ID="AntenatalTesting.3">
                <!-- (Narrative Block: Unstructured) -->
                <caption xsi:type="StrucDoc.Caption">Last Visit Date</caption>
                <content>20121218</content>
              </item>
              <item ID="AntenatalTesting.4">
                <!-- (Narrative Block: Unstructured) -->
                <caption xsi:type="StrucDoc.Caption">Number of Visits</caption>
                <content>8</content>
              </item>
            </list>
          </text>
        </section>
      </component>
    </structuredBody>
  </component>

```

```

</text>
<entry>
  <act classCode="ACT" moodCode="EVN" negationInd="true">
    <templateId root="2.16.840.1.113883.10.20.26.42"/>
    <code code="73776-7" displayName="No Prenatal Care"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <effectiveTime>
      <low value="20120521"/>
      <high value="20121218"/>
    </effectiveTime>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="68493-6" displayName="Prenatal visits for this
pregnancy" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="INT" value="8"/>
      </observation>
    </entryRelationship>
  </act>
</entry>
</section>
</component>
<!--
*****
Prior Pregnancy History Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.12"/>
      <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="57073-9" displayName="Prenatal events"/>
      <text>
        <list>
          <item ID="PriorPregnancyHistorySection.1">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Date of Last Live Birth</
caption>
              <content>20101125</content>
            </item>
          </list>
          <list>
            <item ID="PriorPregnancyHistorySection.2">
              <!-- (Narrative Block: Unstructured)-->
              <caption xsi:type="StrucDoc.Caption">Last Menstrual Period Date</
caption>
                <content>20120401</content>
              </item>
            </list>
            <list>
              <item ID="PriorPregnancyHistorySection.3">
                <!-- (Narrative Block: Unstructured)-->
                <caption xsi:type="StrucDoc.Caption">Number of Births Now Living</
caption>
                  <content>3</content>
                </item>
              </list>
              <list>
                <item ID="PriorPregnancyHistorySection.4">
                  <!-- (Narrative Block: Unstructured)-->
                  <caption xsi:type="StrucDoc.Caption">Number of Births Now Dead</
caption>
                    <content>0</content>
                  </item>
                </list>
              </list>

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<list>
  <item ID="PriorPregnancyHistorySection.5">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Other Pregnancy Outcomes</
caption>
    <content>0</content>
  </item>
</list>
<list>
  <item ID="PriorPregnancyHistorySection.6">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Date of Last Other Pregnancy
Outcome</caption>
    <content>Not Applicable</content>
  </item>
</list>
<list>
  <item ID="PriorPregnancyHistorySection.7">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Estimate of Gestation</caption>
    <content>39 weeks</content>
  </item>
</list>
</text>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.20"/>
    <code code="68499-3" displayName="Date last live birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="TS" value="20101125"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.33"/>
    <code code="8665-2" displayName="Last menstrual period date"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="TS" value="20120401"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.36"/>
    <code code="11638-4" displayName="Number of births now living"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="INT" value="2"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.38"/>
    <code code="68496-9" displayName="Number of live births now dead"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="INT" value="0"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.40"/>
    <code code="69043-8" displayName="Other pregnancy outcomes"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <effectiveTime nullFlavor="NA"/>
    <value xsi:type="INT" value="0"/>
  </observation>

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    </entry>
  <entry>
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.21"/>
      <code code="11884-4" displayName="Gestational age"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <value xsi:type="PQ" value="39" unit="wk"/>
    </observation>
  </entry>
</section>
</component>
<!--
*****
History of Infection Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.5"/>
      <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="71459-2" displayName="Infection Panel"/>
      <text>
        <list>
          <item ID="HistoryOfInfectionSection.1">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Infection Present</caption>
            <content>None</content>
          </item>
        </list>
      </text>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.30"/>
        <code code="72519-2" displayName="Infections present and or treated
during this pregnancy for live birth" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
        <value xsi:type="CD" code="260413007" displayName="None"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
      </observation>
    </entry>
  </section>
</component>
<!--
*****
Labor and Delivery Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.8"/>
      <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="34079-4" displayName="Labor and delivery section"/>
      <text>
        <list>
          <item ID="LaborAndDeliverySection.1">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Attender Name</caption>
            <content>Jane Smith</content>
          </item>
          <item ID="LaborAndDeliverySection.2">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Attender NPI</caption>
            <content>8044590773</content>
          </item>
        </list>
      </text>
    </section>
  </component>

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<item ID="LaborAndDeliverySection.3">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Attender Title</caption>
  <content>Physician</content>
</item>
<item ID="LaborAndDeliverySection.7">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Facility ID</caption>
  <content>X</content>
</item>
<item ID="LaborAndDeliverySection.8">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Place of Birth</caption>
  <content>Hospital</content>
</item>
<item ID="LaborAndDeliverySection.9">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">City, Town, or Location of
Birth</caption>
  <content>X</content>
</item>
<item ID="LaborAndDeliverySection.10">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Country of Birth</caption>
  <content>X</content>
</item>
<item ID="LaborAndDeliverySection.11">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Facility Name</caption>
  <content>Include the name of Facility where birth occurred</content>
</item>
<item ID="LaborAndDeliverySection.12">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Other Birth Place Specified</
caption>
  <content>No Information</content>
</item>
<item ID="LaborAndDeliverySection.13">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Maternal Transfer</caption>
  <content>No</content>
</item>
<item ID="LaborAndDeliverySection.14">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Characteristics of Labor and
Delivery</caption>
  <content>Epidural or Spinal Anesthesia during Labor</content>
</item>
<item ID="LaborAndDeliverySection.15">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Maternal Morbidity</caption>
  <content>Unplanned Hysterectomy</content>
</item>
<item ID="LaborAndDeliverySection.16">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Pregnancy Risk Factor</caption>
  <content>Prepregnancy Diabetes</content>
</item>
<item ID="LaborAndDeliverySection.17">
  <!-- (Narrative Block: Unstructured)-->
  <caption xsi:type="StrucDoc.Caption">Pregnancy Risk Factor</caption>
  <content>Prepregnancy Hypertension</content>
</item>
<item ID="LaborAndDeliverySection.18">

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    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Pregnancy Risk Factor</caption>
    <content>Pregnancy Resulted from Infertility Treatment</content>
  </item>
  <item ID="LaborAndDeliverySection.19">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Pregnancy Risk Factor</caption>
    <content>Assisted Reproductive Technology</content>
  </item>
  <item ID="LaborAndDeliverySection.20">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Source of Payment</caption>
    <content>Private Insurance</content>
  </item>
  <item ID="LaborAndDeliverySection.21">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Onset of Labor</caption>
    <content>None of the Cited Options</content>
  </item>
</list>
</text>
<entry>
  <act classCode="SPCTRT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.31"/>
    <code code="57074-7" displayName="Labor and delivery process"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <performer typeCode="PRF">
      <assignedEntity>
        <id root="2.16.840.1.113883.4.6" extension="8044590773"/>
        <!-- Attender's NPI It is possible to provide a local state ID as
well. -->
        <code code="309343006" displayName="Physician"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
        <assignedPerson classCode="PSN" determinerCode="INSTANCE">
          <name>
            <prefix>Dr.</prefix>
            <family>Smith</family>
            <given>Jane</given>
          </name>
        </assignedPerson>
      </assignedEntity>
    </performer>
    <participant typeCode="LOC">
      <participantRole classCode="BIRTHPL">
        <id root="2.16.840.1.113883.4.6" extension="1244497890"/>
        <!-- Birth Facility NPI. -->
        <code code="22232009" displayName="Hospital"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
        <addr nullFlavor="NP"/>
        <!-- Address is not provided if birth takes place within a known
facility. -->
        <playingEntity classCode="PLC" determinerCode="INSTANCE">
          <name>Metropolitan Memorial Hospital</name>
          <desc nullFlavor="NP"/>
        </playingEntity>
      </participantRole>
    </participant>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.35"/>
        <code code="73763-5" displayName="Mother was transferred
for maternal medical or fetal indications for delivery"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="BL" value="false"/>

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</observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.18"/>
    <code code="73813-8" displayName="Characteristics of labor and
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="231064003" displayName="Intrathecal
injection of local anesthetic agent" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.34"/>
    <code code="73781-7" displayName="Maternal morbidity"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="625654015" displayName="Emergency
cesarean hysterectomy" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="73211009" displayName="Diabetes
mellitus" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="38341003" displayName="Hypertensive
disorder" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="65046005" displayName="Infertility
therapy" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="63487001" displayName="Assisted
fertilization" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <code code="68461-3" displayName="Source of Payment"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  </observation>
</entryRelationship>

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    <value xsi:type="CD" code="5" displayName="Private Insurance"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  </observation>
</entryRelationship>
</act>
</entry>
<entry typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.32"/>
    <code code="73774-2" displayName="Onset of Labor"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="260413007" displayName="None"
codeSystem="2.16.840.1.113883.221.5" codeSystemName="HL70064"/>
  </observation>
</entry>
<!--
*****
Labor and Delivery Procedure Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.7"/>
      <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="xxxxxx" displayName="Labor and Delivery Procedure Section"/>
      <text>
        <list>
          <item ID="LaborDeliveryProcedureSection.1">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Obstetric Procedure</caption>
            <content>External Cephalic Version - Successful</content>
          </item>
          <item ID="LaborDeliveryProcedureSection.2">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Unsucessful Forceps Delivery
Attempt</caption>
            <content>No Information</content>
          </item>
          <item ID="LaborDeliveryProcedureSection.3">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Unsucessful Vacuum Extraction
Attempt</caption>
            <content>No Information</content>
          </item>
          <item ID="LaborDeliveryProcedureSection.4">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Fetal Presentation at birth</
caption>
            <content>Breech</content>
          </item>
          <item ID="LaborDeliveryProcedureSection.5">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Final Route and Method of
Delivery</caption>
            <content>Cesarean</content>
          </item>
          <item ID="LaborDeliveryProcedureSection.6">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Trial of Labor Attempted</
caption>
            <content>Yes</content>
          </item>
        </list>
      </text>

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    <entry>
      <procedure classCode="PROC" moodCode="EVN" negationInd="false">
        <templateId root="2.16.840.1.113883.10.20.26.39"/>
        <code code="240278000" displayName="External cephalic version"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
      </procedure>
    </entry>
    <entry>
      <procedure classCode="PROC" moodCode="EVN" negationInd="false">
        <templateId root="2.16.840.1.113883.10.20.26.45"/>
        <code code="72149-8" displayName="Delivery method"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <entryRelationship typeCode="COMP">
          <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.26.44"/>
            <code code="73761-9" displayName="Fetal presentation at birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
            <value xsi:type="CD" code="70028003" displayName="Vertex
presentation" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
          </observation>
        </entryRelationship>
        <entryRelationship typeCode="COMP">
          <observation classCode="OBS" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.26.44"/>
            <code code="73762-7" displayName="Final route and method of
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
            <value xsi:type="CD" code="200144004" displayName="Deliveries by
cesarean" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
            <entryRelationship typeCode="COMP">
              <observation classCode="OBS" moodCode="EVN">
                <templateId root="2.16.840.1.113883.10.20.26.44"/>
                <code code="73760-1" displayName="If cesarean, a trial of labor
was attempted" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
                <value xsi:type="BL" value="true"/>
              </observation>
            </entryRelationship>
          </observation>
        </entryRelationship>
      </procedure>
    </entry>
  </section>
</component>
<!--
*****
Mother's Vital Signs Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.9"/>
      <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="8716-3" displayName="Vital Signs"/>
      <text>
        <list>
          <item ID="MotherVitalSignsSection.1">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Body Weight at Delivery</
caption>
              <content>175 lbs.</content>
            </item>
          <item ID="MotherVitalSignsSection.2">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Height</caption>
              <content>66 inches</content>
            </item>
          </list>
        </text>
      </section>
    </component>
  </component>

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        </item>
        <item ID="MotherVitalSignsSection.3">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Pregpregnancy Body Weight</
caption>
        <content>145 lbs.</content>
        </item>
    </list>
</text>
<entry>
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>
        <code code="69461-2" displayName="Body weight -- pre current
pregnancy" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="PQ" value="145" unit="lb"/>
    </observation>
</entry>
<entry>
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>
        <code code="3137-7" displayName="Body height"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="PQ" value="66" unit="in"/>
    </observation>
</entry>
<entry>
    <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>
        <code code="69461-2" displayName="Body weight mother -- at
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="PQ" value="175" unit="lb"/>
    </observation>
</entry>
</section>
</component>
</section>
</component>
<!--
*****
Newborn Delivery Section
*****
-->
    <component>
        <section classCode="DOCSECT" moodCode="EVN">
            <templateId root="2.16.840.1.113883.10.20.26.10"/>
            <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="57075-4" displayName="Newborn delivery information from newborn
Narrative"/>
            <text>
                <list>
                    <item ID="NewbornDeliverySection.1">
                        <!-- (Narrative Block: Unstructured)-->
                        <caption xsi:type="StrucDoc.Caption">Newborn Name</caption>
                        <content>No Information</content>
                    </item>
                    <item ID="NewbornDeliverySection.2">
                        <!-- (Narrative Block: Unstructured)-->
                        <caption xsi:type="StrucDoc.Caption">Newborn Sex</caption>
                        <content>Female</content>
                    </item>
                    <item ID="NewbornDeliverySection.3">
                        <!-- (Narrative Block: Unstructured)-->
                        <caption xsi:type="StrucDoc.Caption">Birth Time</caption>
                        <content>201301211300</content>

```

```

    </item>
    <item ID="NewbornDeliverySection.4">
      <!-- (Narrative Block: Unstructured)-->
      <caption xsi:type="StrucDoc.Caption">Plurality</caption>
      <content>1</content>
    </item>
    <item ID="NewbornDeliverySection.5">
      <!-- (Narrative Block: Unstructured)-->
      <caption xsi:type="StrucDoc.Caption">Number of Infants Born Alive</
caption>
      <content>1</content>
    </item>
    <item ID="NewbornDeliverySection.6">
      <!-- (Narrative Block: Unstructured)-->
      <caption xsi:type="StrucDoc.Caption">Abnormal Conditions of the
Newborn</caption>
      <content>NICU Admission</content>
    </item>
    <item ID="NewbornDeliverySection.7">
      <!-- (Narrative Block: Unstructured)-->
      <caption xsi:type="StrucDoc.Caption">Abnormal Conditions of the
Newborn</caption>
      <content>Antibiotics Received by the Newborn for Suspected Neonatal
Sepsis</content>
    </item>
    <item ID="NewbornDeliverySection.8">
      <!-- (Narrative Block: Unstructured)-->
      <caption xsi:type="StrucDoc.Caption">Congenital Anomaly</caption>
      <content>Congenital Diaphragmatic Hernia</content>
    </item>
    <item ID="NewbornDeliverySection.9">
      <!-- (Narrative Block: Unstructured)-->
      <caption xsi:type="StrucDoc.Caption">Infant Transferred</caption>
      <content>No</content>
    </item>
    <item ID="NewbornDeliverySection.10">
      <!-- (Narrative Block: Unstructured)-->
      <caption xsi:type="StrucDoc.Caption">Infant Living</caption>
      <content>Yes</content>
    </item>
    <item ID="NewbornDeliverySection.11">
      <!-- (Narrative Block: Unstructured)-->
      <caption xsi:type="StrucDoc.Caption">Infant Breastfed at Discharge</
caption>
      <content>Yes</content>
    </item>
  </list>
</text>
<subject typeCode="SBJ">
  <relatedSubject classCode="PRS">
    <subject classCode="PSN" determinerCode="INSTANCE">
      <sdtc:id root="2.1.33" extension="123-MR-8233"/>
      <!-- The root OID for the newborn identifier indicates the name
space the identifier value is drawn from. -->
      <name>
        <family>Johnson</family>
        <given>Baby Girl</given>
      </name>
      <administrativeGenderCode code="F"
codeSystem="2.16.840.1.113883.5.1"/>
      <birthTime value="201301211300"/>
    </subject>
  </relatedSubject>
</subject>

```

```

<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.41"/>
    <code code="57722-1" displayName="Birth plurality"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="INT" value="1"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.13"/>
    <code code="73812-0" displayName="Abnormal conditions of the newborn"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="405269005" displayName="Neonatal intensive
care unit" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.13"/>
    <code code="73812-0" displayName="Abnormal conditions of the newborn"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="634641000124112" displayName="Antibiotics
for suspected neonatal sepsis" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.19"/>
    <code code="73780-9" displayName="Congenital anomalies of the
newborn" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="17190001" displayName="Congenital
diaphragmatic hernia" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.29"/>
    <code code="73758-5" displayName="Infant was transferred
within 24 hours of delivery" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
    <value xsi:type="BL" value="false"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.28"/>
    <code code="73757-7" displayName="Infant living at time of report"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="true"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.27"/>
    <code code="73756-9" displayName="Infant is being breastfed at
discharge" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="true"/>
  </observation>
</entry>
<!--
*****

```

## Newborn's Vital Signs Section

\*\*\*\*\*

--&gt;

```

    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.11"/>
        <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="8716-3" displayName="Vital Signs"/>
        <text>
          <list>
            <item ID="InfantVitalSignsSection.1">
              <!-- (Narrative Block: Unstructured)-->
              <caption xsi:type="StrucDoc.Caption">Body Weight at Birth</
caption>
                <content>2980 Grams</content>
              </item>
            </list>
          </text>
          <entry>
            <observation classCode="OBS" moodCode="EVN">
              <templateId root="2.16.840.1.113883.10.20.26.46"/>
              <code code="8339-4" displayName="Body weight at birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
              <value xsi:type="PQ" value="2980" unit="g"/>
            </observation>
          </entry>
        </section>
      </component>
    <!--

```

\*\*\*\*\*

## Assessment Section

\*\*\*\*\*

--&gt;

```

    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.47"/>
        <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="51848-0" displayName="Assessment Note"/>
        <text>
          <list>
            <item ID="AssessmentSection.1">
              <!-- (Narrative Block: Unstructured)-->
              <caption xsi:type="StrucDoc.Caption">Apgar Score - 5 minutes</
caption>
                <content>5</content>
              </item>
            <item ID="AssessmentSection.2">
              <!-- (Narrative Block: Unstructured)-->
              <caption xsi:type="StrucDoc.Caption">Apgar Score - 10 minutes</
caption>
                <content>8</content>
              </item>
            </list>
          </text>
          <entry>
            <observation classCode="OBS" moodCode="EVN">
              <templateId root="2.16.840.1.113883.10.20.26.46"/>
              <code code="9274-2" displayName="Score^5M post birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
              <value xsi:type="INT" value="5"/>
            </observation>
          </entry>
          <entry>
            <observation classCode="OBS" moodCode="EVN">

```



```

        <templateId root="2.16.840.1.113883.10.20.26.14"/>
        <code code="9271-8" displayName="Score^10M post birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <effectiveTime>
          <width value="10" unit="min"/>
        </effectiveTime>
        <value xsi:type="INT" value="8"/>
      </observation>
    </entry>
  </section>
</component>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>

```

## Fetal Death Report Sample

The sample message has been constructed to illustrate the use of this implementation guide to constrain CDA in the representation of a fetal death report.

```

<?xml version="1.0"?>
<?xml-stylesheet type="text/xsl" href="CDA.xsl"?>
<ClinicalDocument xmlns="urn:hl7-org:v3" xmlns:voc="urn:hl7-org:v3/
voc" xmlns:sdtc="urn:hl7-org:sdtc" xmlns:xsi="http://www.w3.org/2001/
XMLSchema-instance" xsi:schemaLocation="urn:hl7-org:v3 CDA_SDTC.xsd"
classCode="DOCCLIN" moodCode="EVN">
  <!--
*****
  CDA Header
  *****
-->
  <realmCode code="US"/>
  <typeId root="2.16.840.1.113883.1.3" extension="POCD_HD000040"/>
  <templateId root="2.16.840.1.113883.10.20.26.2"/>
  <!-- conforms to the guidance of the IG -->
  <id root="1.22.33" extension="0810USA6363"/>
  <!-- Vital Records document identifier. We need to supply instruction
regarding use of object identifiers (OIDs) or Globally Unique Identifiers
(GUIDs). -->
  <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="69045-3" displayName="US standard report of fetal death"/>
  <title>Fetal Death Report</title>
  <!-- Title of the report-->
  <effectiveTime value="20121023"/>
  <!-- Date the report was prepared -->
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"/>
  <!--Confidentiality is a contextual component of CDA, where the value
expressed in the header holds true for the entire document, unless
overridden by a nested value and 2.16.840.1.113883.5.25 is the OID for
HL7-->
  <languageCode code="en-US"/>
  <!--LanguageCode example with language and country-->
  <!--
*****
  CDA Header: Participants
  *****

```

```

-->
<recordTarget typeCode="RCT">
  <!--The record target includes information regarding the mother.-->
  <patientRole classCode="PAT">
    <id root="2.3.44.55" extension="V000-013-0001-0003"/>
    <!-- Mother's Medical Record Number. The root OID for the identifier
indicates the name space the identifier value is drawn from. -->
    <addr>
      <streetAddressLine>99 Somewhere Lane</streetAddressLine>
      <city>Metropolis</city>
      <state>Empire State</state>
      <postalCode>893444</postalCode>
    </addr>
    <patient classCode="PSN" determinerCode="INSTANCE">
      <name>
        <family>Mother's family name</family>
        <given>Mother's given Name</given>
      </name>
    </patient>
  </patientRole>
</recordTarget>
<!--
*****
CDA Header: The Author of the Patient Narrative Document
*****
-->
<author typeCode="AUT">
  <time nullFlavor="NI"/>
  <assignedAuthor classCode="ASSIGNED">
    <id root="2.44.998" extension="300-23"/>
    <!-- Document Author identifier. The root OID for the document author
identifier indicates the name space the identifier value is drawn from. -->
  </assignedAuthor>
</author>
<custodian typeCode="CST">
  <assignedCustodian classCode="ASSIGNED">
    <representedCustodianOrganization classCode="ORG"
determinerCode="INSTANCE">
      <id root="2.889.3.55.2" extension="ABX_44445USA"/>
      <!-- Document Custodian identifier. The root OID for the custodian
identifier indicates the name space the identifier value is drawn from. -->
    </representedCustodianOrganization>
  </assignedCustodian>
</custodian>
<!--
*****
Feta Death Report Content (CDA BODY)
*****
-->
<component>
  <structuredBody>
    <!--
*****
Prenatal Testing and Surveillance Section
*****
-->
    <component>
      <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.3"/>
        <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="57078-8" displayName="Antenatal Testing and Surveillance Section"/>
        <text>
          <list>
            <item ID="AntenatalTesting.1">

```

```

        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Prenatal Care Received</
caption>
        <content>Yes</content>
        </item>
        <item ID="AntenatalTesting.2">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">First Visit Date</caption>
        <content>20120624</content>
        </item>
        <item ID="AntenatalTesting.3">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Last Visit Date</caption>
        <content>20121101</content>
        </item>
        <item ID="AntenatalTesting.4">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Prenatal visits for this
pregnancy</caption>
        <content>6</content>
        </item>
        </list>
        </text>
        <entry>
        <act classCode="ACT" moodCode="EVN" negationInd="true">
        <templateId root="2.16.840.1.113883.10.20.26.42"/>
        <code code="73776-7" displayName="No Prenatal Care"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <effectiveTime>
        <low value="20120624"/>
        <high value="20121101"/>
        </effectiveTime>
        <entryRelationship typeCode="COMP">
        <observation classCode="OBS" moodCode="EVN">
        <code code="68493-6" displayName="Prenatal visits for this
pregnancy" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="INT" value="6"/>
        </observation>
        </entryRelationship>
        </act>
        </entry>
        </section>
        </component>
        <!--
        *****
Prior Pregnancy History Section
        *****
-->
        <component>
        <section classCode="DOCSECT" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.12"/>
        <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="57073-9" displayName="Prenatal events"/>
        <text>
        <list>
        <item ID="PriorPregnancyHistorySection.1">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Date last live birth</caption>
        <content>20101125</content>
        </item>
        <item ID="PriorPregnancyHistorySection.2">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Date last menstrual period</
caption>

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        <content>20120401</content>
      </item>
      <item ID="PriorPregnancyHistorySection.3">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Births still living</caption>
        <content>3</content>
      </item>
      <item ID="PriorPregnancyHistorySection.4">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Live births now dead</caption>
        <content>0</content>
      </item>
      <item ID="PriorPregnancyHistorySection.5">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Other pregnancy outcomes</
caption>
        <content>0</content>
      </item>
      <item ID="PriorPregnancyHistorySection.6">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Date of Last Other Pregnancy
Outcome</caption>
        <content>Not Applicable</content>
      </item>
      <item ID="PriorPregnancyHistorySection.7">
        <!-- (Narrative Block: Unstructured)-->
        <caption xsi:type="StrucDoc.Caption">Gestational age</caption>
        <content>39 weeks</content>
      </item>
    </list>
  </text>
  <entry>
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.20"/>
      <code code="68499-3" displayName="Date last live birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <value xsi:type="TS" value="20101125"/>
    </observation>
  </entry>
  <entry>
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.33"/>
      <code code="8665-2" displayName="Date last menstrual period"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <value xsi:type="TS" value="20120401"/>
    </observation>
  </entry>
  <entry>
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.36"/>
      <code code="11638-4" displayName="Number of births still living"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <value xsi:type="INT" value="2"/>
    </observation>
  </entry>
  <entry>
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.38"/>
      <code code="68496-9" displayName="Number of live births now dead"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <value xsi:type="INT" value="0"/>
    </observation>
  </entry>
</entry>

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```

    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.40"/>
      <code code="69043-8" displayName="Other pregnancy outcomes"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
      <effectiveTime nullFlavor="NA"/>
      <value xsi:type="INT" value="0"/>
    </observation>
  </entry>
</entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.21"/>
    <code code="11884-4" displayName="Gestational age"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="PQ" value="39" unit="wk"/>
  </observation>
</entry>
</section>
</component>
<!--
*****
History of Infection Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.48"/>
      <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="71459-2" displayName="Infection Panel"/>
      <text>
        <list>
          <item ID="HistoryOfInfectionSection.1">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Infections present and or
treated during this pregnancy for fetal death</caption>
            <content>Listeriosis</content>
          </item>
          <item ID="HistoryOfInfectionSection.2">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Infections present and or
treated during this pregnancy for fetal death</caption>
            <content>Toxoplasmosis</content>
          </item>
        </list>
      </text>
    </entry>
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.49"/>
      <code code="73769-2" displayName="Infections present and or treated
during this pregnancy for fetal death" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
      <value xsi:type="CD" code="4241002" displayName="Listeriosis"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
    </observation>
  </entry>
  <entry>
    <observation classCode="OBS" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.49"/>
      <code code="73769-2" displayName="Infections present and or treated
during this pregnancy for fetal death" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
      <value xsi:type="CD" code="187192000" displayName="Toxoplasmosis"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
    </observation>
  </entry>

```

```

</section>
</component>
<!--
*****
Labor and Delivery Section
*****
-->
<component>
<section classCode="DOCSECT" moodCode="EVN">
<templateId root="2.16.840.1.113883.10.20.26.8"/>
<code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="34079-4" displayName="Labor and delivery section"/>
<text>
<list>
<item ID="LaborAndDeliverySection.1">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Attender Name</caption>
<content>Dr. Joseph Smith</content>
</item>
<item ID="LaborAndDeliverySection.2">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Attender NPI</caption>
<content>8044590788</content>
</item>
<item ID="LaborAndDeliverySection.3">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Attender Title</caption>
<content>Osteopath</content>
</item>
<item ID="LaborAndDeliverySection.4">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Facility ID</caption>
<content>22232009</content>
</item>
<item ID="LaborAndDeliverySection.5">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Place of Birth</caption>
<content>Hospital</content>
</item>
<item ID="LaborAndDeliverySection.6">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Facility Name</caption>
<content>Metropolitan Memorial Hospital</content>
</item>
<item ID="LaborAndDeliverySection.7">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Maternal Transfer</caption>
<content>No</content>
</item>
<item ID="LaborAndDeliverySection.8">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Characteristics of Labor and
Delivery</caption>
<content>Augmentation of labor</content>
</item>
<item ID="LaborAndDeliverySection.9">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Characteristics of Labor and
Delivery</caption>
<content>Fetal distress</content>
</item>
<item ID="LaborAndDeliverySection.10">
<!-- (Narrative Block: Unstructured)-->
<caption xsi:type="StrucDoc.Caption">Maternal Morbidity</caption>

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    <content>None</content>
  </item>
  <item ID="LaborAndDeliverySection.11">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Pregnancy Risk Factor</caption>
    <content>Diabetes mellitus</content>
  </item>
  <item ID="LaborAndDeliverySection.12">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Pregnancy Risk Factor</caption>
    <content>Hypertensive disorder</content>
  </item>
  <item ID="LaborAndDeliverySection.13">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Pregnancy Risk Factor</caption>
    <content>Infertility therapy</content>
  </item>
  <item ID="LaborAndDeliverySection.14">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Pregnancy Risk Factor</caption>
    <content>Assisted fertilization</content>
  </item>
  <item ID="LaborAndDeliverySection.15">
    <!-- (Narrative Block: Unstructured)-->
    <caption xsi:type="StrucDoc.Caption">Source of Payment</caption>
    <content>Unknown</content>
  </item>
</list>
</text>
<entry>
  <act classCode="SPCTRT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.31"/>
    <code code="57074-7" displayName="Labor and delivery process"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <performer typeCode="PRF">
      <assignedEntity>
        <id root="2.16.840.1.113883.4.6" extension="8044590788"/>
        <!-- Attender's NPI. It is possible to provide a local state ID as
well. -->
        <code code="76231001" displayName="Osteopath"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
        <assignedPerson classCode="PSN" determinerCode="INSTANCE">
          <name>
            <prefix>Dr.</prefix>
            <family>Smith</family>
            <given>Joseph</given>
          </name>
        </assignedPerson>
      </assignedEntity>
    </performer>
    <participant typeCode="LOC">
      <participantRole classCode="BIRTHPL">
        <id root="2.16.840.1.113883.4.6" extension="1244497890"/>
        <!-- Delivery Facility NPI. -->
        <code code="22232009" displayName="Hospital"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
        <addr>
          <city>Metropolis</city>
          <!-- "City, Town or Location of birth". -->
          <county>Metropolitan</county>
        </addr>
        <playingEntity classCode="PLC" determinerCode="INSTANCE">
          <name>Include the name of Facility where delivery occurred</name>
          <desc nullFlavor="NI"/>

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    </playingEntity>
  </participantRole>
</participant>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.35"/>
    <code code="73763-5" displayName="Mother was transferred
for maternal medical or fetal indications for delivery"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="false"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.18"/>
    <code code="73813-8" displayName="Characteristics of labor and
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="237001001" displayName="Augmentation of
labor" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.18"/>
    <code code="73813-8" displayName="Characteristics of labor and
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="130955003" displayName="Fetal distress"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.34"/>
    <code code="73781-7" displayName="Maternal morbidity"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="260413007" displayName="None"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="73211009" displayName="Diabetes
mellitus" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="38341003" displayName="Hypertensive
disorder, systemic arterial" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>

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    <value xsi:type="CD" code="65046005" displayName="Pregnancy
resulted from infertility treatment" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.44"/>
    <code code="73775-9" displayName="Risk factors in this pregnancy"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="63487001" displayName="Assisted
fertilization" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/
  >
    </observation>
  </entryRelationship>
<entryRelationship typeCode="COMP">
  <observation classCode="OBS" moodCode="EVN">
    <code code="68461-3" displayName="Source of Payment"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="ZZZ" displayName="Unknown"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
  </observation>
</entryRelationship>
</act>
</entry>
<!--
*****
Labor and Delivery Procedure Section
*****
-->
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.7"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="xxxxxx" displayName="Labor and Delivery Procedure Section"/>
    <text>
      <list>
        <item ID="LaborDeliveryProcedureSection.1">
          <!-- (Narrative Block: Unstructured)-->
          <caption xsi:type="StrucDoc.Caption">Fetal Presentation at birth</
caption>
            <content>Breech presentation</content>
          </item>
          <item ID="LaborDeliveryProcedureSection.2">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Final Route and Method of
Delivery</caption>
              <content>Forceps delivery</content>
            </item>
          </list>
        </text>
      <entry>
        <procedure classCode="PROC" moodCode="EVN" negationInd="false">
          <templateId root="2.16.840.1.113883.10.20.26.45"/>
          <code code="72149-8" displayName="Delivery method"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
          <entryRelationship typeCode="COMP">
            <observation classCode="OBS" moodCode="EVN">
              <templateId root="2.16.840.1.113883.10.20.26.44"/>
              <code code="73761-9" displayName="Fetal presentation at birth"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
              <value xsi:type="CD" code="6096002" displayName="Breech
presentation" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
            </observation>

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    </entryRelationship>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.44"/>
        <code code="73762-7" displayName="Final route and method of
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="CD" code="302383004" displayName="Forceps
delivery" codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
      </observation>
    </entryRelationship>
  </procedure>
</entry>
</section>
</component>
<!--
*****
Mother's Vital Signs Section
*****
-->
  <component>
    <section classCode="DOCSECT" moodCode="EVN">
      <templateId root="2.16.840.1.113883.10.20.26.9"/>
      <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="8716-3" displayName="Vital Signs"/>
      <text>
        <list>
          <item ID="MotherVitalSignsSection.1">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Body weight -- pre current
pregnancy</caption>
            <content>145 lbs.</content>
          </item>
          <item ID="MotherVitalSignsSection.2">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Body height</caption>
            <content>66 inches</content>
          </item>
          <item ID="MotherVitalSignsSection.3">
            <!-- (Narrative Block: Unstructured)-->
            <caption xsi:type="StrucDoc.Caption">Body weight mother -- at
delivery</caption>
            <content>175 lbs.</content>
          </item>
        </list>
      </text>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>
        <code code="69461-2" displayName="Body weight -- pre current
pregnancy" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="PQ" value="145" unit="lb"/>
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>
        <code code="3137-7" displayName="Body height"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="PQ" value="66" unit="in"/>
      </observation>
    </entry>
    <entry>
      <observation classCode="OBS" moodCode="EVN">
        <templateId root="2.16.840.1.113883.10.20.26.46"/>

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        <code code="69461-2" displayName="Body weight mother -- at
delivery" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="PQ" value="175" unit="lb"/>
      </observation>
    </entry>
  </section>
</component>
</section>
</component>
<!--
*****
Fetal Delivery Section
*****
-->
<component>
  <section classCode="DOCSECT" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.4"/>
    <code codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
code="xxxx" displayName="Fetal delivery"/>
    <text>
      <list>
        <item ID="FetusDeliverySection.1">
          <!-- (Narrative Block: Unstructured)-->
          <caption xsi:type="StrucDoc.Caption">Fetus Name</caption>
          <content>Ronald McGovern</content>
        </item>
        <item ID="FetusDeliverySection.2">
          <!-- (Narrative Block: Unstructured)-->
          <caption xsi:type="StrucDoc.Caption">Fetus Sex</caption>
          <content>Male</content>
        </item>
        <item ID="FetusDeliverySection.3">
          <!-- (Narrative Block: Unstructured)-->
          <caption xsi:type="StrucDoc.Caption">Birth Time</caption>
          <content>201301312359</content>
        </item>
        <item ID="FetusDeliverySection.4">
          <!-- (Narrative Block: Unstructured)-->
          <caption xsi:type="StrucDoc.Caption">Autopsy was performed</caption>
          <content>Autopsy Examination</content>
        </item>
        <item ID="FetusDeliverySection.5">
          <!-- (Narrative Block: Unstructured)-->
          <caption xsi:type="StrucDoc.Caption">Histological placental
examination was performed</caption>
          <content>Planned</content>
        </item>
        <item ID="FetusDeliverySection.6">
          <!-- (Narrative Block: Unstructured)-->
          <caption xsi:type="StrucDoc.Caption">Autopsy histological placental
examinationand was used in determining cause of death</caption>
          <content>Trure</content>
        </item>
        <item ID="FetusDeliverySection.7">
          <!-- (Narrative Block: Unstructured)-->
          <caption xsi:type="StrucDoc.Caption">Estimated time of fetal death</
caption>
          <content>Died during labor, after first assessment</content>
        </item>
        <item ID="FetusDeliverySection.8">
          <!-- (Narrative Block: Unstructured)-->
          <caption xsi:type="StrucDoc.Caption">Congenital Anomaly</caption>
          <content>None</content>
        </item>
      </list>
    </text>
  </section>
</component>

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    <item ID="FetusDeliverySection.9">
      <!-- (Narrative Block: Unstructured)-->
      <caption xsi:type="StrucDoc.Caption">Delivery date for patient
selected by practitioner using all pertinent information</caption>
      <content>201301312330</content>
    </item>
  </list>
</text>
<subject typeCode="SBJ">
  <relatedSubject classCode="PRS">
    <subject classCode="PSN" determinerCode="INSTANCE">
      <name>
        <family>Ronald</family>
        <given>MGovern</given>
      </name>
      <administrativeGenderCode code="M"
codeSystem="2.16.840.1.113883.5.1"/>
    </subject>
  </relatedSubject>
</subject>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.41"/>
    <code code="57722-1" displayName="Birth plurality"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="INT" value="1"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.15"/>
    <code code="73768-4" displayName="Autopsy was performed"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="BL" value="true"/>
    <entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="73767-6" displayName="Histological placental
examination was performed" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"/>
        <value xsi:type="BL" value="true"/>
      </observation>
    </entryRelationship typeCode="COMP">
      <observation classCode="OBS" moodCode="EVN">
        <code code="LOINC_TBD" displayName="Autopsy and histological
placental examination was used in determining cause of death"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
        <value xsi:type="BL" value="true"/>
      </observation>
    </entryRelationship>
  </observation>
</entryRelationship>
</observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.22"/>
    <code code="73811-2" displayName="Estimated time of fetal death"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="634661000124111" displayName="Died
during labor, after first assessment" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">

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    <templateId root="2.16.840.1.113883.10.20.26.19"/>
    <code code="73780-9" displayName="Congenital anomalies of the
newborn" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="CD" code="260413007" displayName="None"
codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"/>
  </observation>
</entry>
<entry>
  <observation classCode="OBS" moodCode="EVN">
    <templateId root="2.16.840.1.113883.10.20.26.23"/>
    <code code="11778-8" displayName="Delivery date for
patient selected by practitioner using all pertinent information"
codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"/>
    <value xsi:type="TS" value="201301312330"/>
  </observation>
</entry>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>

```

## REFERENCES

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- HL7 Implementation Guide for CDA Release 2 CDA for Public Health Case Reports (PHCR) Informative Standard October 2009. Available through [HL7](#) .
- HL7 Implementation Guide for CDA Release 2: NHSN Healthcare Associated Infection (HAI) Reports, Release 2 Draft Standard for Trial Use January 2009 Available at: [NHSN Healthcare Associated Infection \(HAI\) Reports](#)
- Dolin RH, Alschuler L, Boyer S, Beebe C, Behlen FM, Biron PV, Shabo A, (Editors). HL7 Clinical Document Architecture, Release 2.0. ANSI-approved HL7 Standard; May 2005. Ann Arbor, Mich.: Health Level Seven, Inc. Available through [HL7](#) or if an HL7 member with the following link: [CDA Release 2 Normative Web Edition](#).
- [LOINC®](#) : Logical Observation Identifiers Names and Codes, Regenstrief Institute.
- [SNOMED CT®](#) : SNOMED Clinical Terms SNOMED International Organization.
- Extensible Markup Language, [www.w3.org/XML](http://www.w3.org/XML) .
- 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> .
- Using SNOMED CT in HL7 Version 3; Implementation Guide, Release 1.5. Available through [HL7](#) or if an HL7 member with the following link: [Using SNOMED CT in HL7 Version 3](#)

