Integrating the Healthcare Enterprise

IHE Patient Care Coordination (PCC)

Technical Framework Supplement

CDA Content Modules

Draft for Public Comment

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Foreword

This page is standard language for all IHE supplements. The Introduction section following will list all other IHE documents that are modified by this supplement. This document is a supplement to the IHE Patient Care Coordination Technical Framework 5.0. The technical framework can be found at http://www.ihe.net/Technical_Framework/index.cfm#pcc.

This and all IHE supplements are written as changes to a base document. The base document is normally one or more IHE Final Text documents. Supplements tell a technical editor and the reader how to modify the final text (additions, deletions, changes in wording). In order to understand this supplement, the reader needs to read and understand all of the base documents that are modified by this supplement.

In this supplement you will see "boxed" instructions similar to the following:

Replace Section X.X by the following:

These "boxed" instructions are for the author to indicate to the Volume Editor how to integrate the relevant section(s) into the overall Technical Framework.

This format means the reader has to integrate the base documents and the supplement. When the material in the supplement is considered ready for incorporation into the final text of the Technical Framework, the IHE committees will update the technical framework documents with the final text. Supplements are written in this format to avoid duplication material. This means that two IHE documents (one possibly final text, and the other a supplement) should not contain contradictory material.

Text in this document is not considered final for the Technical Framework. It becomes Final Text only after the IHE Patient Care Coordination Technical Committee ballots the supplement (after testing) and agrees that the material is ready for integration with the existing Technical Framework documents.

It is submitted for Public Comment starting June 01, 2010.

Comments on this supplement may be submitted http://forums.rsna.org:

1. Select the "IHE" forum
2. Select Patient Care Coordination Technical Framework
3. Select 2010 Supplements for Public Comment
4. Select Content Modules Supplement

Please use the Public Comment Template provided there when starting your New Thread.

Details about IHE may be found at: www.ihe.net

Details about the IHE Patient Care Coordination may be found at:
http://www.ihe.net/Domains/index.cfm

Details about the structure of IHE Technical Frameworks and Supplements may be found at: http://www.ihe.net/About/process.cfm and http://www.ihe.net/profiles/index.cfm

TABLE OF CONTENTS

Introduction

This supplement is written for Public Comment. It is written as changes to the documents listed below. The reader should have already read and understood these documents:

1. PCC Technical Framework Volume 1, Revision 5.0
2. PCC Technical Framework Volume 2, Revision 5.0

This supplement also references other documents[1]. The reader should have already read and understood these documents:

1. IT Infrastructure Technical Framework Volume 1, Revision 6.0
2. IT Infrastructure Technical Framework Volume 2, Revision 6.0
3. IT Infrastructure Technical Framework Volume 3, Revision 6.0
4. The Patient Identifier Cross-Reference (PIX) and Patient Demographic Query (PDQ) HL7 v3 Supplement to the IT Infrastructure Technical Framework.
5. HL7 and other standards documents referenced in Volume 1 and Volume 2
6. Dilbert 2.0: 20 Years of Dilbert by Scott Adams, ISBN-10: 0740777351, ISBN-13: 978-0740777356

This supplement defines a number of PCC content modules that are shared between various content documents. These are provided for trial implementation and will be published in the same format for Trial Implementation. Upon completion, some content modules will be moved to Final Text; others may remain in Trial Implementation.

Profile Abstract

This supplement does not describe a profile

Open Issues and Questions

Closed Issues

[1] The first three documents can be located on the IHE Website at http://www.ihe.net/Technical_Framework/index.cfm#IT. The remaining documents can be obtained from their respective publishers.

Volume 1 – Integration Profiles

Glossary

Add the following terms to the Glossary:

1.7 History of Annual Changes

<Brief overview of "what's new" in the given year of the Technical Framework.>

Add the following bullet to the end of the bullet list in Section 1.7

- Added a set of CDA Content Modules shared across several Integration Profiles for the 2010-2011 documentation cycle.

Volume 2 - Transactions

Rename 6 CDA Release 2.0 Content Modules to 6 PCC Content Modules

Renumber 6.1 HL7 Version 3.0 Content Modules to 6.3 HL7 Version 3.0 Content Modules

Add Section 6.1

6.1 Conventions

Various tables used in this section will further constrain the content. Within this volume, the follow conventions are used.

R

A "Required" data element is one that shall always be provided. If there is information available, the data element must be present. If there is no information available, or it cannot be transmitted, the data element must contain a value indicating the reason for omission of the data. (See PCC TF-2: 5.3.4.2 for a list of appropriate statements).

R2

A "Required if data present" data element is one that shall be provided when a value exists. If the information cannot be transmitted, the data element shall contain a value indicating the reason for omission of the data. If no such information is available to the creator or if such information is not available in a well identified manner (e.g., buried in a free form narrative that contains additional information relevant to other sections) or if the creator requires that information be absent, the R2 section shall be entirely absent. (See Section PCC TF-2: 5.3.4.2 for a list of appropriate statements).

O

An optional data element is one that may be provided, irrespective of whether the information is available or not. If the implementation elects to support this optional section, then its support shall meet the requirement set forth for the "Required if data present" or R2.

C

A conditional data element is one that is required, required if known, or optional depending upon other conditions. These will have further notes explaining when the data element is required, et cetera.

Note: The definitions of R, R2, and O differ slightly from other IHE profiles. This is due in part to the fact that local regulations and policies may in fact prohibit the transmission of certain information, and that a human decision to transmit the information may be required in many cases.

Add Section 6.2

6.2 Folder Content Modules

This section contains modules that describe the content requirements of Folders used with XDS, XDM or XDR. When workflows are completed normally, the folders will contain documents with the optionality specified in the tables shown below. Under certain circumstances, the folders will not meet the optionality requirements described below, for example, when the patient leaves before treatment is completed.

Add Section 6.2.1

6.2.1 EDES Folder Specification

Add Section 6.2.A

6.2.A APR Folder Specification

Add Section 6.2.L

6.2.L LDR Folder Specification

Add Section 6.3

6.3 HL7 Version 3.0 Content Modules

Add Section 6.3.1

6.3.1 CDA Document Content Modules

Add Section 6.3.1.X

6.3.1.X History and Physical Specification 1.3.6.1.4.1.19376.1.5.3.1.1.16.1.4

The History and Physical document content module is a Medical Summary and inherits all header constraints from Medical Summary (1.3.6.1.4.1.19376.1.5.3.1.1.2). The intention of this document content module is to provide a base from which other document content modules may be derived. Future work may also result in a content profile for History and Physical.

6.3.1.x.1 Format Code

The XDSDocumentEntry format code for this content is **urn:ihe:pcc:hp:2008**

6.3.1.x.2 LOINC Code

The LOINC code for this document is **34117-2** HISTORY AND PHYSICAL

6.3.1.x.3 Standards

CDAR2 HL7 CDA Release 2.0

CDTHP CDA for Common Document Types History and Physical Notes (DSTU)

6.3.1.x.4 Specification

This section references content modules using Template ID as the key identifier. Defintions of the modules are found in either:

- IHE Patient Care Coordination Volume 2: Final Text
- IHE PCC Content Modules 2009-2010 Supplement (This document, For Trial Implementation)

Data Element Name	Opt	Template ID
Chief Complaint	R	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1
History of Present Illness	R	1.3.6.1.4.1.19376.1.5.3.1.3.4
History of Past Illness	R	1.3.6.1.4.1.19376.1.5.3.1.3.8
Medications	R	1.3.6.1.4.1.19376.1.5.3.1.3.19
Allergies and Other Adverse Reactions Section	R	1.3.6.1.4.1.19376.1.5.3.1.3.13
Social History	R	1.3.6.1.4.1.19376.1.5.3.1.3.16
Family History	R	1.3.6.1.4.1.19376.1.5.3.1.3.14
Review of Systems	R	1.3.6.1.4.1.19376.1.5.3.1.3.18
Physical Examination	R	1.3.6.1.4.1.19376.1.5.3.1.1.9.15
Vital Signs	R	1.3.6.1.4.1.19376.1.5.3.1.3.25
Results Diagnostic Findings; use this OR Coded Results	R	1.3.6.1.4.1.19376.1.5.3.1.3.27
Coded Results Diagnostic Findings; use this OR Results	R	1.3.6.1.4.1.19376.1.5.3.1.3.28
Assessment and Plan	R	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.5

Table-6.3.1.x.4-1

6.3.x.1.x Conformance

CDA Release 2.0 documents that conform to the requirements of this content module shall indicate their conformance by the inclusion of the appropriate <templateId> elements in the header of the document. This is shown in the sample document below. A CDA Document may conform to more than one template. This content module inherits from the Medical Summaries content module, and so must conform to the requirements of that template as well, thus all <templateId> elements shown in the example below shall be included.


```
<ClinicalDocument xmlns='urn:hl7-org:v3'>
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.2'/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.1.4'/>
  <id root=' ' extension=' '/>
  <code code='34117-2' displayName='HISTORY AND PHYSICAL'
    codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
  <title>History and Physical</title>
  <effectiveTime value='20080601012005'/>
  <confidentialityCode code='N' displayName='Normal'
    codeSystem='2.16.840.1.113883.5.25' codeSystemName='Confidentiality' />
  <languageCode code='en-US'/>
     :
  <component><structuredBody>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1'/>
        <!-- Required Chief Complaint Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.4'/>
        <!-- Required History of Present Illness Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.8'/>
        <!-- Required History of Past Illness Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.19'/>
        <!-- Required Medications Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.13'/>
        <!-- Required Allergies and Other Adverse Reactions Section Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.16'/>
        <!-- Required Social History Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.14'/>
        <!-- Required Family History Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.18'/>
        <!-- Required Review of Systems Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.15'/>
        <!-- Required Physical Examination Section content -->
      </section>
    </component>
    <component>
```



```
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.25'/>
        <!-- Required Vital Signs Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.27'/>
        <!-- Required Results Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.28'/>
        <!-- Required Coded Results Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.5'/>
        <!-- Required Assessment and Plan Section content -->
      </section>
    </component>
  </strucuredBody></component>
</ClinicalDocument>
```

Figure 6.3.x.1.x Sample History and Physical Document

Add Section 6.3.2

6.3.2 CDA Header Content Modules

Add Section 6.3.2.1

6.3.2.1 Language Communication 1.3.6.1.4.1.19376.1.5.3.1.2.1

Add Section 6.3.2.2

6.3.2.2 Employer and School Contacts 1.3.6.1.4.1.19376.1.5.3.1.2.2

Add Section 6.3.2.3

6.3.2.3 Healthcare Providers and Pharmacies 1.3.6.1.4.1.19376.1.5.3.1.2.3

Add Section 6.3.2.4

6.3.2.4 Patient Contacts 1.3.6.1.4.1.19376.1.5.3.1.2.4

Add Section 6.3.2.5

6.3.2.5 Spouse 1.3.6.1.4.1.19376.1.5.3.1.2.4.1

The spouse header element records the spouse of a patient, and inherits other constraints from the Patient Contacts entry. Items in bold in the example below show the additional constraints on this element.

This element *shall* be included as a participant in the header of the CDA document in the event of the pregnancy. If this does not apply to the patient this element SHALL use a null flavor.

6.3.2.5.1 Parent Template

The parent of this template is Patient Contacts.

6.3.2.5.2 Specification

```
<participant typeCode='IND'>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.4'/>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.4.1'/>
 <time value='20070213'/>
 <associatedEntity classCode='PRS'>
   <code code='xx-spouse|184142008' displayName=' ' codeSystem='2.16.840.1.113883.6.96'
codeSystemName='SNOMED CT'/>
   <addr></addr>
   <telecom value=' ' use=' '/>
   <assignedPerson><name></name></assignedPerson>
 </associatedEntity>
</participant>
```

6.3.2.5.3 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.4'/><templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.4.1'/>

The <templateId> element identifies this person as a spouse and must be recorded exactly as shown above.

```
<rule context='hl7:templateId/@root="1.3.6.1.4.1.19376.1.5.3.1.2.4.1"]'>
  <assert test='hl7:templateId/@root="1.3.6.1.4.1.19376.1.5.3.1.2.4"'>
    A participant using template 1.3.6.1.4.1.19376.1.5.3.1.2.4.1 must also use template
1.3.6.1.4.1.19376.1.5.3.1.2.4.
  </assert>
</rule>
```

6.3.2.5.4 <associatedEntity classCode='PRS'>

The classCode attribute of the <associatedEntity> element shall be PRS.

```
<rule context='hl7:templateId/@root="1.3.6.1.4.1.19376.1.5.3.1.2.4.1"]'>
  <assert test='../hl7:associatedEntity/@classCode = "PRS"'>
    The classCode attribute of the associated entity shall be PRS.
  </assert>
</rule>
```

6.3.2.5.5 <code code='xx-spouse|184142008' displayName=' ' codeSystem='2.16.840.1.113883.6.96' codeSystemName='SNOMED CT'/>

This element SHALL use xx-spouse (requested) to represent the patient's spouse or 184142008 to represent the patient's next of kin. The code system name is SNOMED CT.

6.3.2.5.6 Completed Example

```
  <!-- Husband/Domestic Partner -->
  <participant typeCode="IND">
    <associatedEntity classCode="NOK">
      <code code="184142008" displayName="patient's next of kin"
        codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
      <addr>
        <streetAddressLine>45 Chunn Dr.</streetAddressLine>
        <city>Spring Hill</city>
        <state>TN</state>
        <postalCode>37174</postalCode>
        <country>USA</country>
      </addr>
      <telecom value="tel:(999)555-1212" use="WP"/>
      <associatedPerson>
        <name>
          <prefix>Mr.</prefix>
          <given>John</given>
          <family>Youngston</family>
        </name>
      </associatedPerson>
    </associatedEntity>
  </participant>
```

Add Section 6.3.2.6

6.3.2.6 Natural Father of Fetus 1.3.6.1.4.1.19376.1.5.3.1.2.4.2

This header element records the natural father of the fetus, and inherits other constraints from the Patient Contacts entry. Items in bold in the example below show the additional constraints on this element.

This element *shall* be included as a participant in the header of the CDA document in the event of the pregnancy. If the father of the baby is unknown this element *shall* use a null flavor.

6.3.2.6.1 Parent Template

The parent of this template is Patient Contacts.

6.3.2.6.2 Specification

```
  <participant typeCode='IND'>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.4'/>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.4.1'/>
 <time value='20070213'/>
 <associatedEntity classCode='PRS'>
   <code code='xx-fatherofbaby' displayName=' ' codeSystem='2.16.840.1.113883.6.96'
codeSystemName='SNOMED CT'/>
   <addr></addr>
   <telecom value=' ' use=' '/>
   <assignedPerson><name></name></assignedPerson>
 </associatedEntity>
</participant>
```


6.3.2.6.3 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.4'/><templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.4.2'/>

The <templateId> element identifies this person as the natural father and must be recorded exactly as shown above.

```
<rule context='hl7:templateId/@root="1.3.6.1.4.1.19376.1.5.3.1.2.4.2"]'>
  <assert test='hl7:templateId/@root="1.3.6.1.4.1.19376.1.5.3.1.2.4"'>
    A participant using template 1.3.6.1.4.1.19376.1.5.3.1.2.4.2 must also use template
1.3.6.1.4.1.19376.1.5.3.1.2.4.
  </assert>
</rule>
```

6.3.2.6.4 <associatedEntity classCode='PRS'>

The classCode attribute of the <associatedEntity> element shall be PRS.

```
<rule context='hl7:templateId/@root="1.3.6.1.4.1.19376.1.5.3.1.2.4.2"]'>
  <assert test='../hl7:associatedEntity/@classCode = "PRS"'>
    The classCode attribute of the associated entity shall be PRS.
  </assert>
</rule>
```

6.3.2.6.5 <code code='xx-fatherofbaby' displayName=' ' codeSystem='2.16.840.1.113883.6.96' codeSystemName='SNOMED CT'/>

For father of baby the code *shall* be xx-fatherofbaby (requested). The code system name is SNOMED CT

6.3.2.6.6 Completed Example

```
  <!-- Father of baby -->
  <participant typeCode="IND">
    <associatedEntity classCode="NOK">
      <code code="xx-fatherofbaby" displayName="Father of Baby"
        codeSystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED CT"/>
      <addr>
        <streetAddressLine>18 Oak Valley Dr.</streetAddressLine>
        <city>Monteagle</city>
        <state>TN</state>
        <postalCode>37205</postalCode>
        <country>USA</country>
      </addr>
      <telecom value="tel:(999)555-1212" use="WP"/>
      <associatedPerson>
        <name>
          <prefix>Mr.</prefix>
          <given>Thomas</given>
          <family>Caster</family>
        </name>
      </associatedPerson>
    </associatedEntity>
  </participant>
```

Add Section 6.3.2.7

6.3.2.7 Authorization 1.3.6.1.4.1.19376.1.5.3.1.2.5

Each <authorization> element in the CDA Header represents an informed consent. When the document being shared represents the informed consent to a policy expressed by the XDS Affinity Domain within the document, it shall do so in an <authorization> element. More than one <authorization> element may be present. The consent to share informaiton shall have a unique identifier contained in the <id> element, representing the patient consent to that policy. The policy being consented to shall be represented in the <code> element. Note that other <authorization> elements may be present representing other sorts of consents associated with the document.

6.3.2.7.1 Parent Template

6.3.2.7.2 Specification

```
<authorization typeCode='AUTH'>
  <consent classCode='CONS' moodCode='EVN'>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.5'/>
    <id root=''/>
    <code code='' codeSystem='' codeSystemName='' displayName=''/>
    <statusCode code='completed'/>
  </consent>
</authorization>
```

<authorization typeCode='AUTH'>

At least one <authorization> element must be present in a consent medical document in documents shared by Document Source actors that implement the privacy option. The typeCode attribute shall be present and be valued with AUTH, indicating that this is an authorization act related to the document.

<consent classCode='CONS' moodCode='EVN'>

Each authorization element shall have one <consent> element. The classCode shall be present and be valued with CONS, indicating that the related act is an informed consent. The moodCode shall be EVN, indicating that this element represents and act that has occurred.

<templateId root='1.3.6.1.4.1.19376.1.5.3.1.2.5'/>

The <templateId> element shall be recorded as shown above and identifies this consent as an authorization entry.

<id root=' '/>

The <consent> element shall have one identifier that is used to uniquely identify the consent act. This identifier shall contain a root attribute, and shall not contain an extension attribute.

<code code=' ' codeSystem=' ' codeSystemName=' ' displayName=' '/>

The <consent> element shall have one <code> element that is used to identify the consent policy that was agreed to by the patient.

Add Section 6.3.3

6.3.3 CDA Section Content Modules

Add Section 6.3.3.1

6.3.3.1 Reasons for Care

Add Section 6.3.3.1.1

6.3.3.1.1 Reason for Referral

Add Section 6.3.3.1.2

6.3.3.1.2 Coded Reason for Referral

Add Section 6.3.3.1.3

6.3.3.1.3 Chief Complaint

Add Section 6.3.3.1.4

6.3.3.1.4 Hospital Admission Diagnosis

Add Section 6.3.3.1.5

6.3.3.1.5 Proposed Procedure Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.1	
General Description	The proposed procedure section shall contain a description of the procedures for which a risk assessment is required including procedure names and codes, patient position, dates, and names of surgeons. It shall include entries for procedures as described in the Entry Content Modules and the required and optional subsections.	
LOINC Code	**Opt**	**Description**
29554-3	R	PROCEDURE

Entries	Opt	Description
1.3.6.1.4.1.19376.1.5.3.1.4.19	R	Procedure Entry
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.9.4	R	Reason for Procedure
1.3.6.1.4.1.19376.1.5.3.1.1.9.3	R	Proposed Anesthesia
1.3.6.1.4.1.19376.1.5.3.1.1.9.2	R	Estimated Blood Loss
1.3.6.1.4.1.19376.1.5.3.1.1.9.40	R	Procedure Care Plan

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.1'/>
    <id root=' ' extension=' '/>
    <code code='29554-3' displayName='PROCEDURE'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Required Procedure Entry  element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.19'/>
         :
    </entry>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.4'/>
        <!-- Required Reason for Procedure Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.3'/>
        <!-- Required Proposed Anesthesia Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.2'/>
        <!-- Required if known Estimated Blood Loss Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.40'/>
        <!-- Required if known Procedure Care Plan Section content -->
      </section>
    </component>
  </section>
</component>
```

Figure 6.3.3.5-1Specification for Proposed Procedure Section

Add Section 6.3.3.1.6

6.3.3.1.EBS Estimated Blood Loss Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.2

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.9.2
General Description		The estimated blood loss section shall contain a description of the blood loss for the procedure.
LOINC Code	**Opt**	**Description**
8717-1	R	OPERATIVE NOTE ESTIMATED BLOOD LOSS
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.13	R	Simple Observations

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.2'/>
    <id root=' ' extension=' '/>
    <code code='8717-1' displayName='OPERATIVE NOTE ESTIMATED BLOOD LOSS'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Required Simple Observations element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
        :
    </entry>
  </section>
</component>
```

Figure 6.3.3.1-EBS Specification for Estimated Blood Loss Section

Add Section 6.3.3.1.7

6.3.3.1.7 Anesthesia Administered Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.3

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.9.3
General Description		The proposed anesthesia section shall contain a description of the anesthetic techniques for which a risk assessment is required. It shall include entries for anesthetic procedures as described in the Entry Content Modules.
LOINC Code	**Opt**	**Description**
10213-7	R	Surgical operation note anesthesia
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.19	R	Procedure Entry The procedure entries shall be in INT mood.


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.3'/>
    <id root=' ' extension=' '/>
    <code code='10213-7' displayName='Surgical operation note anesthesia'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
         :
      <!-- Required Procedure Entry element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.19'/>
         :
    </entry>
  </section>
</component>
```

Figure 6.3.3.1.7-1 Specification for Anesthesia Administered Section

Add Section 6.3.3.1.8

6.3.3.1.8 Reason for Procedure Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.4

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.4	
General Description	The reason for procedure section shall contain a description of the reason that the patient is receiving the procedure. It shall include entries for conditions as described in the Entry Content Module.	
LOINC Code	**Opt**	**Description**
10217-8	R	OPERATIVE NOTE INDICATIONS
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.5	R2	Conditions Entry

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.4'/>
    <id root=' ' extension=' '/>
    <code code='10217-8' displayName='OPERATIVE NOTE INDICATIONS'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
         :
      <!-- Required if known Conditions ENtry element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.5'/>
         :
    </entry>
  </section>
</component>
```

Figure 6.3.3.1.8-1 Specification for Reason for Procedure Section

Add Section 6.3.3.1.9

6.3.3.1.9 Reason for Visit Section 1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1.1	
General Description	This contains a narrative description of the patient's reason for visit.	
LOINC Code	Opt	Description
29299-5	R	REASON FOR VISIT

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1.1'/>
    <id root=' ' extension=' '/>
    <code code='29299-5' displayName='REASON FOR VISIT'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>
</component>
```

Figure 6.3.3.1.9-1 Specification for Reason for Visit Section

Add Section 6.3.3.1.10

6.3.3.1.10 Injury Incident Description Section 1.3.6.1.4.1.19376.1.5.3.1.1.19.2.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.19.2.1	
General Description	This section shall include a description of the incident leading to the injury, including status of relevant safety equipment in use (e.g., safety belts, air bag, helmet).	
LOINC Code	Opt	Description
11374-6	R	Injury incident description


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.19.2.1'/>
    <id root=' ' extension=' '/>
    <code code='11374-6' displayName='Injury incident description'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>
</component>
```

Figure 6.3.3.1.10-1 Sample Injury Incident Description Section

Add Section 6.3.3.2

6.3.3.2 Other Condition Histories

Add Section 6.3.3.2.1

6.3.3.2.1 History of Present Illness

Add Section 6.3.3.2.2

6.3.3.2.2 Hospital Course

Add Section 6.3.3.2.3

6.3.3.2.3 Active Problems

Add Section 6.3.3.2.4

6.3.3.2.4 Discharge Diagnosis

Add Section 6.3.3.2.5

6.3.3.2.5 History of Past Illness

Add Section 6.3.3.2.6

6.3.3.2.6 Encounter Histories

Add Section 6.3.3.2.7

6.3.3.2.7 History of Outpatient Visits

Add Section 6.3.3.2.8

6.3.3.2.8 History of Inpatient Visits

Add Section 6.3.3.2.9

6.3.3.2.9 List of Surgeries

Add Section 6.3.3.2.10

6.3.3.2.10 Coded List of Surgeries

Add Section 6.3.3.2.11

6.3.3.2.11 Allergies and Other Adverse Reactions

Add Section 6.3.3.2.12

6.3.3.2.12 Family medical History

Add Section 6.3.3.2.13

6.3.3.2.13 Coded Family Medical History

Add Section 6.3.3.2.14

6.3.3.2.14 Social History Section

Add Section 6.3.3.2.15

6.3.3.2.15 Functional Status

Add Section 6.3.3.2.16

6.3.3.2.16 Review of Systems

Add Section 6.3.3.2.17

6.3.3.2.17 Hazardous Working Conditions

Add Section 6.3.3.2.18

6.3.3.2.18 Pregnancy History

Add Section 6.3.3.2.19

6.3.3.2.19 Medical Devices

Add Section 6.3.3.2.20

6.3.3.2.20 Foreign Travel

720

Add Section 6.3.3.2.21

6.3.3.2.21 Pre-procedure Family Medical History Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.5

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.5	
Parent Template	1.3.6.1.4.1.19376.1.5.3.1.3.15 (1.3.6.1.4.1.19376.1.5.3.1.3.15)	
General Description	The pre-procedure family history section shall contain a description of the genetic family members who have suffered complications during anesthesia such as malignant hyperthermia, bleeding, etc. It shall include entries for family history as described in the Entry Content Modules.	
LOINC Code	**Opt**	**Description**
10157-6	R	HISTORY OF FAMILY MEMBER DISEASES

725 #### 6.3.3.2.21.2 Parent Template

The parent of this template is 1.3.6.1.4.1.19376.1.5.3.1.3.15.

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.15'/>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.5'/>
    <id root=' ' extension=' '/>
    <code code=10157-6' displayName='HISTORY OF FAMILY MEMBER DISEASES'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
   <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2'/>
        <!-- Required Pain Scale Assessment Section content -->
      </section>
    </component>



  </section>
</component>
```

Figure 6.3-XXX Specification for Pre-procedure Family Medical History Section

750

Add Section 6.3.3.2.CFSA

6.3.3.2.22 Coded Functional Status Assessment Section 1.3.6.1.4.1.19376.1.5.3.1.1.12.2.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.1	
Parent Template	Functional Status (1.3.6.1.4.1.19376.1.5.3.1.3.17)	
General Description	The coded functional status assessment section provided a machine readable and narrative description of the patient's status of normal functioning at the time the document was created. Functional status includes information concerning: Ambulatory ability Mental status or competency Activities of Daily Living (ADL's) including bathing, dressing, feeding, grooming Home/living situation having an effect on the health status of the patient Ability to care for self Social activity, including issues with social cognition, participation with friends and acquaintances other than family members Occupation activity, including activities partly or directly related to working, housework or volunteering, family and home responsibilities or activities related to home and family Communication ability, including issues with speech, writing or cognition required for communication Perception, including sight, hearing, taste, skin sensation, kinesthetic sense, proprioception, or balance	
LOINC Code	**Opt**	**Description**
47420-5	R	Functional Status Assessment
Subsections	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2	R	Pain Scale Assessment
1.3.6.1.4.1.19376.1.5.3.1.1.12.2.3	O	Braden Score Assessment
1.3.6.1.4.1.19376.1.5.3.1.1.12.2.4	O	Geriatric Depression Scale
1.3.6.1.4.1.19376.1.5.3.1.1.12.2.5	O	Minimum Data Set

Note: At least one of the above optional subsections shall be present

6.3.3.2.22.1 Standards

CDAR2 HL7 CDA Release 2.0

CRS HL7 Care Record Summary

CCD ASTM/HL7 Continuity of Care Document

LOINC Logical Observation Identifier Names and Codes

SNOMED Systemitized Nomenclature of Medicine Clinical Terminology

6.3.3.2.22.2 Parent Template

The parent of this template is Functional Status.


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.17'/>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.1'/>
    <id root=' ' extension=' '/>
    <code code='47420-5' displayName='Functional Status Assessment'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
   <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2'/>
        <!-- Required Pain Scale Assessment Section content -->
      </section>
    </component>

   <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.3'/>
        <!-- Optional Braden Score Assessment Section content -->
      </section>
    </component>

   <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.4'/>
        <!-- Optional Geriatric Depression Scale Section content -->
      </section>
    </component>

   <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.5'/>
        <!-- Optional Minimum Data Set Section content -->
      </section>
    </component>


  </section>
</component>
```

Figure 6.3-CFSA Specification for Coded Functional Status Assessment Section

Add Section 6.3.3.2.23

6.3.3.2.23 Pain Scale Assessment Section 1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2	
General Description	The Pain Scale Assessment contains a coded observation reflecting the patient's reported intensity of pain on a scale from 0 to 10.	
LOINC Code	**Opt**	**Description**
38208-5	R	Pain severity
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.12.3.1	R	Pain Score Observation


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2'/>
    <id root=' ' extension=' '/>
    <code code='38208-5' displayName='Pain severity'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Required Pain Score Observation element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.3.1'/>
        :
    </entry>

  </section>
</component>
```

Figure 6.3.3.2.23-1 Specification for Pain Scale Assessment Section

Add Section 6.3.3.2.24

6.3.3.2.24 Braden Score Section 1.3.6.1.4.1.19376.1.5.3.1.1.12.2.3

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.3	
General Description	This section reports the braden score and its related assessments in machine and human readable form.	
LOINC Code	**Opt**	**Description**
38228-3	R	BRADEN SCALE SKIN ASSESSMENT PANEL
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.12.3.2	R	Braden Score Observation

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.3'/>
    <id root=' ' extension=' '/>
    <code code='38228-3' displayName='BRADEN SCALE SKIN ASSESSMENT PANEL'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Required Braden Score Observation element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.3.2'/>
        :
    </entry>

  </section>
</component>
```

Figure 6.3.3.2.24-1 Specification for Braden Score Section

Add Section 6.3.3.2.25

6.3.3.2.25 Geriatric Depression Scale Section 1.3.6.1.4.1.19376.1.5.3.1.1.12.2.4

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.12.2.4
General Description		This section reports the Geriatric Depression Scale score and its related assessments in machine and human readable form.
LOINC Code	**Opt**	**Description**
48542-5	R	Geriatric Depression Scale (GDS) Panel
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.12.3.4	R	Geriatric Depression Score Observation

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.4'/>
    <id root=' ' extension=' '/>
    <code code='48542-5' displayName='Geriatric Depression Scale (GDS) Panel'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Required Geriatric Depression Score Observation element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.3.4'/>
        :
    </entry>

  </section>
</component>
```

Figure 6.3.3.2.25-1 Specification for Geriatric Depression Scale Section

Add Section 6.3.3.2.26

6.3.3.2.26 Physical Function Section 1.3.6.1.4.1.19376.1.5.3.1.1.12.2.5

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.12.2.5
General Description		This section reports scores from section G of the Minimum Data Set.
LOINC Code	**Opt**	**Description**
46006-3	R	Physical functioning and structural problems
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.12.3.7	O	Survey Panel At least one Survey Panel or Survey Observation shall be present.
1.3.6.1.4.1.19376.1.5.3.1.1.12.3.6	O	Survey Observations At least one Survey Panel or Survey Observation shall be present.


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.5'/>
    <id root=' ' extension=' '/>
    <code code='46006-3' displayName='Physical functioning and structural problems'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Optional Survey Panel element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.3.7'/>
        :
    </entry>
    <entry>
        :
      <!-- Optional Survey Observations element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.3.6'/>
        :
    </entry>

  </section>
</component>
```

Figure 6.3.3.2.26-1 Specification for Physical Function Section

6.3.3.2.26.1 Constraints

Survey Panels found in this section shall be identified using the panel codes found in the table below, and shall contain one or more survey observations from that panel.

Survey Observations found in this section shall use the LOINC codes from the table below to express the answer to one or more questions from the Minimum Data Set Section G. The Survey Observations shall not contain a <methodCode> or <targetSiteCode> element, as these are not appropriate to the MDS Survey instrument.

Panel Code	Observation Code	Description	Data Type	Value Set
46007-1	Panel	ADL self performance or support		
	45588-1	Bed mobility - self-performance	CO	2.16.840.1.113883.6.257.755
	45589-9	Bed mobility - support provided	CO	2.16.840.1.113883.6.257.768
	45590-7	Transfer - self-performance	CO	2.16.840.1.113883.6.257.755
	45591-5	Transfer - support provided	CO	2.16.840.1.113883.6.257.768
	45592-3	Walk in room - self-performance	CO	2.16.840.1.113883.6.257.75

Panel Code	Observation Code	Description	Data Type	Value Set
				5
	45593-1	Walk in room - support provided	CO	2.16.840.1.113883.6.257.768
	45594-9	Walk in corridor - self-performance	CO	2.16.840.1.113883.6.257.755
	45595-6	Walk in corridor - support provided	CO	2.16.840.1.113883.6.257.768
	45596-4	Locomotion on unit - self-performance	CO	2.16.840.1.113883.6.257.755
	45597-2	Locomotion on unit - support provided	CO	2.16.840.1.113883.6.257.768
	45598-0	Locomotion off unit - self-performance	CO	2.16.840.1.113883.6.257.755
	45599-8	Locomotion off unit - support provided	CO	2.16.840.1.113883.6.257.768
	45600-4	Dressing - self-performance	CO	2.16.840.1.113883.6.257.755
	45601-2	Dressing - support provided	CO	2.16.840.1.113883.6.257.768
	45602-0	Eating - self-performance	CO	2.16.840.1.113883.6.257.755
	45603-8	Eating - support provided	CO	2.16.840.1.113883.6.257.768
	45604-6	Toilet use - self-performance	CO	2.16.840.1.113883.6.257.755
	45605-3	Toilet use - support provided	CO	2.16.840.1.113883.6.257.768
	45606-1	Personal hygiene - self-performance	CO	2.16.840.1.113883.6.257.755
	45607-9	Personal hygiene - support provided	CO	2.16.840.1.113883.6.257.768
46008-9	Panel	Bathing		
	45608-7	Bathing - self-performance	CO	2.16.840.1.113883.6.257.860
	45609-5	Bathing - support provided	CO	2.16.840.1.113883.6.257.76

Panel Code	Observation Code	Description	Data Type	Value Set
				8
46009-7	Panel	Test for balance		
	45610-3	Balance while standing	CO	2.16.840.1.113883.6.257.876
	45523-8	Balance while sitting	CO	2.16.840.1.113883.6.257.876
46010-5	Panel	Functional limitation in range of motion		
	45524-6	Range of motion^Neck	CO	2.16.840.1.113883.6.257.889
	45525-3	Voluntary movement^Neck	CO	2.16.840.1.113883.6.257.898
	45526-1	Range of motion^Upper Extremity	CO	2.16.840.1.113883.6.257.889
	45527-9	Voluntary movement^Upper Extremity	CO	2.16.840.1.113883.6.257.898
	45528-7	Range of motion^Hand	CO	2.16.840.1.113883.6.257.889
	45529-5	Voluntary movement^Hand	CO	2.16.840.1.113883.6.257.898
	45530-3	Range of motion^Lower Extremity	CO	2.16.840.1.113883.6.257.889
	45531-1	Voluntary movement^Lower Extremity	CO	2.16.840.1.113883.6.257.898
	45532-9	Range of motion^Foot	CO	2.16.840.1.113883.6.257.889
	45533-7	Voluntary movement^Foot	CO	2.16.840.1.113883.6.257.898
	45534-5	Other - range of motion	CO	2.16.840.1.113883.6.257.889
	45535-2	Other - voluntary movement	CO	2.16.840.1.113883.6.257.898
46011-3	Panel	Modes of locomotion		
	45536-0	Uses cane, walker or crutch	CO	2.16.840.1.113883.6.257.117

Panel Code	Observation Code	Description	Data Type	Value Set
	45537-8	Wheeled self	CO	2.16.840.1.113883.6.257.117
	45538-6	Other person wheeled	CO	2.16.840.1.113883.6.257.117
	45539-4	Uses wheelchair for primary locomotion	CO	2.16.840.1.113883.6.257.117
	45540-2	No modes of locomotion	CO	2.16.840.1.113883.6.257.117
46012-1	Panel	Modes of transfer		
	45541-0	Bedfast all or most of the time	CO	2.16.840.1.113883.6.257.117
	45542-8	Bed rails for bed mobility or transfer	CO	2.16.840.1.113883.6.257.117
	45543-6	Lifted manually	CO	2.16.840.1.113883.6.257.117
	45544-4	Lifted mechanically	CO	2.16.840.1.113883.6.257.117
	45545-1	Transfer aid	CO	2.16.840.1.113883.6.257.117
	45546-9	No mode of transfer	CO	2.16.840.1.113883.6.257.117
No Panel	45611-1	Task segmentation	CO	2.16.840.1.113883.6.257.117
46013-9	Panel	ADL functional rehabilitation potential		
	45612-9	Resident sees increased independence capability	CO	2.16.840.1.113883.6.257.117
	45613-7	Staff sees increased independence capability	CO	2.16.840.1.113883.6.257.117
	45614-5	Resident slow performing tasks or activity	CO	2.16.840.1.113883.6.257.117
	45615-2	Difference in morning to evening activities of daily living	CO	2.16.840.1.113883.6.257.117
	45616-0	Activities of daily living rehabilitation potential - none of above	CO	2.16.840.1.113883.6.257.117
	45617-8	Change in activities of daily living	CO	2.16.840.1.113883.6.257.46

Panel Code	Observation Code	Description	Data Type	Value Set
		function		4

The coded orginal values used in the observations above are described in more detail in the table below.

Explanation	Coded Value
2.16.840.1.113883.6.257.755	
INDEPENDENT-No help or oversight -OR- Help/oversight provided only 1 or 2 times during last 7 days	0
SUPERVISION-Oversight, encouragement or cueing provided 3 or more times during last7 days -OR-Supervision (3 or more times) plus physical assistance provided only 1 or 2 times during last 7 days	1
LIMITED ASSISTANCE-Resident highly involved in activity; received physical help in guided maneuvering of limbs or other nonweight bearing assistance 3 or more times - OR-More help provided only 1 or 2 times during last 7 days	2
EXTENSIVE ASSISTANCE-While resident performed part of activity, over last 7-day period, help of following type(s) provided 3 or more times: - Weight-bearing support - Full staff performance during part (but not all) of last 7 days	3
TOTAL DEPENDENCE-Full staff performance of activity during entire 7 days	4
ACTIVITY DID NOT OCCUR during entire 7 days	8
2.16.840.1.113883.6.257.768	
No setup or physical help from staff	0
Setup help only	1
One person physical assist	2
ADL activity itself did not occur during entire 7 days	8
2.16.840.1.113883.6.257.860	
Independent-No help provided	0
Supervision-Oversight help only	1
Physical help limited to transfer only	2
Physical help in part of bathing activity	3
Total dependence	4
Activity itself did not occur during entire 7 days	8
2.16.840.1.113883.6.257.876	

Explanation	Coded Value
Maintained position as required in test	0
Unsteady, but able to rebalance self without physical support	1
Partial physical support during test; or stands (sits) but does not follow directions for test	2
Not able to attempt test without physical help	3
2.16.840.1.113883.6.257.889	
No limitation	0
Limitation on one side	1
Limitation on both sides	2
2.16.840.1.113883.6.257.898	
No loss	0
Partial loss	1
Full loss	2
2.16.840.1.113883.6.257.117	
No	0
Yes	1
UTD	-
2.16.840.1.113883.6.257.464	
No change	0
Improved	1
Deteriorated	2

915

Add Section 6.3.3.2.27

6.3.3.2.27 Preprocedure Review of Systems Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.13

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.13
Parent Template	Review of Systems (1.3.6.1.4.1.19376.1.5.3.1.3.18)
General Description	The pre-procedure review of systems section shall contain only required and optional subsections dealing with the responses the patient gave to a set of

	routine questions on body systems in general and specific risks of anesthesia not covered in general review of systems.	
LOINC Code	**Opt**	**Description**
10187-3	R	REVIEW OF SYSTEMS
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.9.46	R	History of Implanted Medical Devices
1.3.6.1.4.1.19376.1.5.3.1.1.9.47	R2	Pregnancy Status History
1.3.6.1.4.1.19376.1.5.3.1.1.9.48	R	Anesthesia Risk Review of Systems

The parent of this template is Review of Systems.

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.18'/>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.13'/>
    <id root=' ' extension=' '/>
    <code code='10187-3' displayName='REVIEW OF SYSTEMS'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.46'/>
        <!-- Required History of Implanted Medical Devices Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.47'/>
        <!-- Required if known Pregnancy Status History Section content -->
      </section>
    </component>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.14'/>
        <!-- Required Anesthesia Risk Review of Systems Section content -->
      </section>
    </component>


  </section>
</component>
```

Figure 6.3.3.2.27-1 Specification for Preprocedure Review of Systems Section

Add Section 6.3.3.2.28

6.3.3.2.28 Estimated Delivery Date Section 1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1
General Description	This section contains the physician's best estimate of the patients due date. This is generally done both on an initial evaluation, and later confirmed at 18-20 weeks. The date is supported by evidence such as the patients history of last menstrual period, a

	physical examination, or ultrasound measurements.	
LOINC Code	**Opt**	**Description**
57060-6	R	Estimated date of delivery
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.1	R	Estimated Delivery Date Observation This is a simple observation to represent the estimated due date with a supporting observation or observations that state the method used and date implied by that method. If one observation is present, then it is to be interpreted as the initial EDD. If the initial observation dates indicate the EDD is within the 18 to 20 weeks completed gestation, that observation will also populate the 18-20 week update. If the initial observation indicates an EDD of more than 20 weeks EGA, then no value will be placed in the 18-20 week update field.

960

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1'/>
    <id root=' ' extension=' '/>
    <code code='57060-6' displayName='Estimated date of delivery'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
         :
      <!-- Required Estimated Due Date Observation element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.1'/>
         :
    </entry>
  </section>
</component>
```

965 970 975

Figure 6.3.3.2.28-1 Specification for Estimated Delivery Dates Section

980

Add Section 6.3.3.2.29

6.3.3.2.29 History of Tobacco Use Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.8

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.8	
General Description	The history of tobacco use section shall contain a description of the responses the patient gave to a set of routine questions on the history of tobacco use.	
LOINC Code	**Opt**	**Description**
11366-2	R	HISTORY OF TOBACCO USE


```
<component>

  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.8'/>
    <id root=' ' extension=' '/>
    <code code='11366-2' displayName='HISTORY OF TOBACCO USE'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>

</component>
```

Figure 6.3.3.2.29-1 Specification for History of Tobacco Use Section

Add Section 6.3.3.2.30

6.3.3.2.30 Current Alcohol/Substance Abuse Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.10

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.10	
General Description	The history of alcohol/substance abuse section shall contain a description of the responses the patient gave to a set of routine questions on the current abuse of alcohol or other substances.	
LOINC Code	**Opt**	**Description**
18663-5	R	HISTORY OF PRESENT ALCOHOL AND/OR SUBSTANCE ABUSE

```
<component>

  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.10'/>
    <id root=' ' extension=' '/>
    <code code='18663-5' displayName='HISTORY OF PRESENT ALCOHOL AND/OR SUBSTANCE ABUSE'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>

</component>
```

Figure 6.3.3.2.30-1 Specification for Current Alcohol/Substance Abuse Section

Add Section 6.3.3.2.31

6.3.3.2.31 History of Blood Transfusion Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.12

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.12	
General Description	The History of Blood Transfusion section shall contain a narrative description of the blood products the patient has received in the past, including any reactions to blood products.	
LOINC Code	**Opt**	**Description**
56836-0	R	History of blood transfusion

```
<component>

  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.12'/>
    <id root=' ' extension=' '/>
    <code code='56836-0' displayName='History of blood transfusion'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>

</component>
```

Figure 6.3.3.2.31-1 Specification for History of Blood Transfusion Section

Add Section 6.3.3.2.32

6.3.3.2.32 Anesthesia Risk Review of Systems Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.14

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.14	
Parent Template	1.3.6.1.4.1.19376.1.5.3.1.3.18 (1.3.6.1.4.1.19376.1.5.3.1.3.18)	
General Description	The anethesia review of systems section shall contain a description of the responses the patient gave to a set of routine questions on specific risks of anesthesia not covered in general review of systems such as broken teeth, airway limitations, positioning limitations, recent infections, and history of personal anethesia problems..	
LOINC Code	**Opt**	**Description**
57081-2	R	Anesthesia Risk Review of Systems

The parent of this template is 1.3.6.1.4.1.19376.1.5.3.1.3.18.


```
<component>

  <section>    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.18'/>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.14'/>
    <id root=' ' extension=' '/>
    <code code='57081-2' displayName='Anesthesia Risk Review of Systems'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>

</component>
```

Figure 6.3-XX Specification for Transfusion History Section

Add Section 6.3.3.2.33

6.3.3.2.33 Implanted Medical Device Review Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.46

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.46	
General Description	The implanted medical device review section shall contain a description of the medical devices that are inserted into the patient, whether internal or partially external.	
LOINC Code	**Opt**	**Description**
57080-4	R	Implanted medical device

```
<component>

  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.46'/>
    <id root=' ' extension=' '/>
    <code code='57080-4' displayName='Implanted medical device'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>

</component>
```

Figure 6.3.3.2.33-1 Specification for Implanted Medical Device Review Section

Add Section 6.3.3.2.34

6.3.3.2.34 Pregnancy Status Review Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.47

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.47	
General Description	The pregnancy status review section shall contain a description of the responses the patient gave to a set of routine questions regarding potential pregnancy in females of child-bearing-age.	
LOINC Code	**Opt**	**Description**
11449-6	R	Pregnancy Status-Reported

```
<component>

  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.47'/>
    <id root=' ' extension=' '/>
    <code code='11449-6' displayName='Pregnancy Status-Reported'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>
</component>
```

Figure 6.3.3.2.34-1 Specification for Pregnancy Status Review Section

Add Section 6.3.3.2.35

6.3.3.2.35 History of Infection Section 1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1	
General Description	The History of Infection section shall contain a narrative description of any infections the patient may have contracted prior to the patient's current visit or admission.	
LOINC Code	**Opt**	**Description**
56838-6	R	History of infectious disease

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1'/>
    <id root=' ' extension=' '/>
    <code code='56838-6' displayName='History of infectious disease'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
  </section>
</component>
```

Figure 6.3.3.2.35-1 Specification for History of Infection Section

Add Section 6.3.3.2.36

6.3.3.2.36 Coded Social History Section 1.3.6.1.4.1.19376.1.5.3.1.3.16.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.3.16.1	
Parent Template	Social History (1.3.6.1.4.1.19376.1.5.3.1.3.16)	
General Description	The social history section shall contain a narrative description of the person's beliefs, home life, community life, work life, hobbies, and risky habits. It shall include Social History Observations.	
LOINC Code	**Opt**	**Description**
29762-2	R	SOCIAL HISTORY
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.13.4	R	Social History Observation

```
<component>
  <section>
    <templateId root='11.3.6.1.4.1.19376.1.5.3.1.3.16'/>
    <templateId root='11.3.6.1.4.1.19376.1.5.3.1.3.16.1'/>
    <id root=' ' extension=' '/>
    <code code='29762-2' displayName='SOCIAL HISTORY'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
  </section>
</component>
```

Figure 6.3.3.2.36-1 Specification for Coded Social History Section

Add Section 6.3.3.2.37

6.3.3.2.37 Coded History of Infection Section 1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1	
Parent Template	History of Infection (1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1)	
General Description	The History of Infection section shall contain a narrative description of any infections the patient may have contracted prior to the patient's current condition. It shall include entries for problems as described in the Entry Content Modules.	
LOINC Code	**Opt**	**Description**
56838-6	R	History of infectious disease


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1'/>
    <id root=' ' extension=' '/>
    <code code='56838-6' displayName='History of infectious disease'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
  </section>
</component>
```

Figure 6.3.3.2.37-1 Specification for Coded History of Infection Section

Add Section 6.3.3.2.38

6.3.3.2.38 Prenatal Events Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.2

Template ID	1.3.6.1.4.1.19376.1.5.3..1.1.21.2.2	
General Description	The Prenatal Events Section shall include narrative text describing pertinant prenatal information that has a direct impact on the process of labor and delivery. It shall also include subsections if known.	
LOINC Code	**Opt**	**Description**
57073-9	R	Prenatal events
Subsections	**Opt**	**Description**
Coded Results This section SHOULD contain laboratory results and procedures as pertaining to the pregnancy , e.g amniocentesis, cordocentesis, chorionic villus sampling.	R2	1.3.6.1.4.1.19376.1.5.3.1.3.28
Procedures and Interventions This section SHOULD contain procedures that took place during the prenatal period (i.e. prenatal care, prenatal complications, prenatal surgeries)	R2	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11
Event Outcomes This section contains event outcomes related to prenatal events e.g. miscarriage, infection.	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.2'/>
    <id root=' ' extension=' '/>
    <code code='57073-9' displayName='Prenatal events'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.28'/>
          <!-- Required if known Coded Results Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11'/>
          <!-- Required if known Procedures and Interventions Section -->
        </section>
    </component>
    <component>
        <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9'/>
          <!-- Required if known Event Outcomes Section -->
        </section>
    </component>
  </section>
</component>
```

Figure 6.3.3.2.38-1 Specification for Prenatal Events Section

Add Section 6.3.3.239

6.3.3.2.39 Labor and Delivery Events Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.3

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.3	
Parent Template		
General Description	The Labor and Delivery Events Section SHALL include a narrative text containing relevant information collected during the labor and delivery process.	
LOINC Code	**Opt**	**Description**
57074-7	R	Labor and delivery process
Subsections	**Opt**	**Description**
Procedures and Interventions This section SHOULD contain procedures and interventions specific to labor and delivery events. These may include induction, C-section, blood transfusion etc.	R2	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11
Event Outcomes This section SHOULD contain outcomes related to the labor and delivery process such as live birth or stillborn.	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.3/>
    <id root=' ' extension=' '/>
    <code code='57074-7' displayName='Labor and delivery process'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11'/>
          <!-- Required if known Procedures and Interventions Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9'/>
          <!-- Required if known Event Outcomes Section -->
        </section>
    </component>
  </section>
</component>
```

Figure 6.3.3.2.39-1 Specification for Labor and Delivery Process Section

Add Section 6.3.3.2.40

6.3.3.2.40 Newborn Delivery Information Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.4

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.4	
Parent Template		
General Description	The Newborn Delivery Information Section SHALL include a narrative text containing information collected at the birth and up to the transfer of the infant from the birthing room to a post-natal unit.	
LOINC Code	**Opt**	**Description**
57075-4	R	Newborn delivery information from newborn
Subsections	**Opt**	**Description**
Physical Exam Section This section SHALL include information about the newborn such as vital signs, Apgar score, cord and newborn presentation,	R	1.3.6.1.4.1.19376.1.5.3.1.1.9.15
Problems This section SHALL describe problems that the newborn might have had during or immediately prior to delivery.	R2	1.3.6.1.4.1.19376.1.5.3.1.3.6
Procedures and Interventions This section SHALL include the procedures and interventions received by the newborn such as suction or resuscitation.	R2	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11
Medications Administered This section SHALL include the medication that was administered to the newborn while in the birthing suite.	R2	1.3.6.1.4.1.19376.1.5.3.1.3.21
Event Outcomes	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9

This section SHALL include the outcomes of the procedures and interventions.		

```
<component>
  <section>
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    <id root=' ' extension=' '/>
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      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.15/>
          <!-- Required Physical Exam Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.6'/>
          <!-- Required if known Problems Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11'/>
          <!-- Required if known Procedures and Interventions Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.21'/>
          <!-- Required if known Medications Administered Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9'/>
          <!-- Required if known Event Outcomes Section -->
        </section>
    </component>
  </section>
</component>
```

Figure 6.3.3.2.40-1 Specification for Newborn Delivery Information Section

1280

Add Section 6.3.3.2.41

6.3.3.2.41 Post-partum Treatment Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.7

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.7	
Parent Template		
General Description	The Post-partum Treatment Section shall include a narrative description of the treatment delivered to the mother susequent to the delivery.	
LOINC Code	**Opt**	**Description**
57076-2	R	POST PARTUM Hospitalization TREATMENT
Subsections	**Opt**	**Description**
Immunizations This section SHOULD contain the immunization given to the mother prior to the discharge from the birthing facility.	O	1.3.6.1.4.1.19376.1.5.3.1.4.12
Medications Administered This SHOULD include commonly prescribed maternal medications including contraceptive medication.	R2	1.3.6.1.4.1.19376.1.5.3.1.3.21
Procedures and Interventions This section SHALL include the procedures and interventions received by the mother during the immediate post-partum period e.g.transfusion or curettage.	R2	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11
Coded Results This section SHOULD contains laboratory results and procedures as pertaining to the mother while discharged such as the hemoglobin or the hematocrit level.	R2	1.3.6.1.4.1.19376.1.5.3.1.3.28
Care plan This section SHOULD include the plan of care for the mother upon her discharge such as the feeding method or the contraceptive plan	O	1.3.6.1.4.1.19376.1.5.3.1.3.31
Discharge Diet This section SHALL include the diet that the mother was recommended upon her discharge.	R	1.3.6.1.4.1.19376.1.5.3.1.3.33


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.7'/>
    <id root=' ' extension=' '/>
    <code code='57076-2' displayName='POST PARTUM HOSPITALIZATION TREATMENT'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.6'/>
          <!-- Required Problems Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.12'/>
          <!-- Optional Immunizations Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.22'/>
          <!-- Required if known Hospital Discharge Medication Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11'/>
          <!-- Required if known Procedures and Interventions Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.28'/>
          <!—Required if known Coded Results Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.31'/>
          <!-- Optional Care Plan Section -->
        </section>
    </component>
    <component>
        <section>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.33'/>
          <!-- Required Discharge Diet Section -->
        </section>
    </component>
  </section>
</component>
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Figure 6.3.3.2.41-1 Specification for Post-partum Treatment Section

Add Section 6.3.3.2.42

6.3.3.2.42 Event Outcomes Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9	
Parent Template		
General Description	The Event Outcome Section shall include a narrative description of the outcomes following a procedure, an intervention or a problem.	
LOINC Code	**Opt**	**Description**
42545-4	R	EVENT OUTCOME

```
<component>
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    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9'/>
    <id root=' ' extension=' '/>
    <code code='42545-4' displayName='EVENT OUTCOME'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
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</component>
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Figure 6.3.3.2.42-1 Specification for Event Outcomes Section

Add Section 6.3.3.2.43

6.3.3.2.43 Newborn Status at Maternal Discharge 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.8

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.8	
Parent Template		
General Description	The Newborn Status and Maternal Discharge section shall contain a narrative description of the status and disposition of the newborn at the time of maternal discharge.	
LOINC Code	**Opt**	**Description**
57077-0	R	Newborn status at maternal discharge from newborn

```
<component>
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    <id root=' ' extension=' '/>
    <code code='57077-0' displayName='Newborn status at maternal discharge from newborn'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
</component>
```

Figure 6.3.3.2.43-1 Specification for Newborn Status at Maternal Discharge Section

Add Section 6.3.3.2.44

6.3.3.2.44 History of Surgical Procedures Section 1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2	
Parent Template		
General Description	The History of Surgical Procedures Section shall contain a narrative description of the surgical procedures performed on the patient.	
LOINC Code	**Opt**	**Description**
10167-5	R	History of surgical procedures

```
<component>
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    <id root=' ' extension=' '/>
    <code code='10167-5' displayName='History of surgical procedures'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
</component>
```

Figure 6.3.3.2.44-1 Specification for History of Surgical Procedures Section

Add Section 6.3.3.2.45

6.3.3.2.45 Operative Note Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.6

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.6	
Parent Template		
General Description	The Operative Note Section shall contain a narrative description of the current operation or surgical procedure in detail.	
LOINC Code	**Opt**	**Description**
10223-6	R	Surgical operation note surgical procedure

```
<component>
  <section>
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      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
</component>
```

Figure 6.3.3.2.45-1 Specification for Operative Note Section

Add Section 6.3.3.3

6.3.3.3 Medications

Add Section 6.3.3.3.1

6.3.3.3.1 Medications Section

Add Section 6.3.3.3.2

6.3.3.3.2 Admission Medication History Section

Add Section 6.3.3.3.3

6.3.3.3.3 Medications Administered Section

Add Section 6.3.3.3.4

6.3.3.3.4 Hospital Discharge Medications Section

Add Section 6.3.3.3.5

6.3.3.3.5 Immunizations Section

Add Section 6.3.3.4

6.3.3.4 Physical Exams

Add Section 6.3.3.3.4.1

6.3.3.4.1 Physical Exam Section

Add Section 6.3.3.3.4.2

6.3.3.4.2 Physical Exam Section (with subsections)

Add Section 6.3.3.3.4.3

6.3.3.4.3 Hospital Discharge Physical Exam Section

Add Section 6.3.3.3.4.4

6.3.3.4.4 Vital Signs Section

Add Section 6.3.3.3.4.5

6.3.3.4.5 Coded Vital Signs Section

Add Section 6.3.3.3.4.29

6.3.3.4.29 Extremities

1430

Add Section 6.3.3.4.30

6.3.3.4.30 Coded Physical Exam Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1	
Parent Template	Physical Exam (1.3.6.1.4.1.19376.1.5.3.1.1.9.15)	
General Description	The physical exam section shall contain a narrative description of the patient's physical findings. It shall include subsections, if known, for the exams that are performed.	
LOINC Code	**Opt**	**Description**
29545-1	R	PHYSICAL EXAMINATION
Subsections	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.3.25	R2	Vital Signs Vital signs may be a subsection of the physical exam or they may stand alone
1.3.6.1.4.1.19376.1.5.3.1.1.9.16	R2	General Appearance
1.3.6.1.4.1.19376.1.5.3.1.1.9.48	R2	Visible Implanted Medical Devices
1.3.6.1.4.1.19376.1.5.3.1.1.9.17	R2	Integumentary System
1.3.6.1.4.1.19376.1.5.3.1.1.9.18	R2	Head
1.3.6.1.4.1.19376.1.5.3.1.1.9.19	R2	Eyes
1.3.6.1.4.1.19376.1.5.3.1.1.9.20	R2	Ears, Nose, Mouth and Throat
1.3.6.1.4.1.19376.1.5.3.1.1.9.21	R2	Ears
1.3.6.1.4.1.19376.1.5.3.1.1.9.22	R2	Nose
1.3.6.1.4.1.19376.1.5.3.1.1.9.23	R2	Mouth, Throat, and Teeth
1.3.6.1.4.1.19376.1.5.3.1.1.9.24	R2	Neck
1.3.6.1.4.1.19376.1.5.3.1.1.9.25	R2	Endocrine System
1.3.6.1.4.1.19376.1.5.3.1.1.9.26	R2	Thorax and Lungs
1.3.6.1.4.1.19376.1.5.3.1.1.9.27	R2	Chest Wall
1.3.6.1.4.1.19376.1.5.3.1.1.9.28	R2	Breasts
1.3.6.1.4.1.19376.1.5.3.1.1.9.29	R2	Heart
1.3.6.1.4.1.19376.1.5.3.1.1.9.30	R2	Respiratory System
1.3.6.1.4.1.19376.1.5.3.1.1.9.31	R2	Abdomen
1.3.6.1.4.1.19376.1.5.3.1.1.9.32	R2	Lymphatic System
1.3.6.1.4.1.19376.1.5.3.1.1.9.33	R2	Vessels
1.3.6.1.4.1.19376.1.5.3.1.1.9.34	R2	Musculoskeletal System
1.3.6.1.4.1.19376.1.5.3.1.1.9.35	R2	Neurologic System

1.3.6.1.4.1.19376.1.5.3.1.1.9.36	R2	Genitalia
1.3.6.1.4.1.19376.1.5.3.1.1.9.37	R2	Rectum
1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1	R2	Extremeties
1.3.6.1.4.1.19376.1.5.3.1.1.21.2.10	R2	Pelvis

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      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
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    <component>
      <section>
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          <!-- Optional Vital Signs Section content -->
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    </component>
  </section>
</component>
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Figure 6.3.3.4.30-1 Coded Physical Exam Section

Add Section 6.3.3.4.31

6.3.3.4.31 Pelvis Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.10

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.10	
General Description	The Pelvis section shall include a narrative description of any type of exam of the reproductive organs.	
LOINC Code	**Opt**	**Description**
10204-6	R	PELVIS


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.10'/>
    <id root=' ' extension=' '/>
    <code code='10204-6' displayName='PELVIS'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
  </section>
</component>
```

Figure 6.3.3.4.31-1 Pelvis Section

Add Section 6.3.3.3.4.32

6.3.3.4.32 Admission Physical Exam Section 1.3.6.1.4.1.19376.1.5.3.1.1.22.1.1.2.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.22.1.1.2.1	
General Description	The Admission physical exam section shall include a narrative description of the physical exams given during the admission to a hospital or similar type of facility.	
LOINC Code	**Opt**	**Description**
XX-AdmissionPhysicalExam	R	Admission physical exam

```
<component>
  <section>
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    <id root=' ' extension=' '/>
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      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
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    </text>
  </section>
</component>
```

Figure 6.3.3.4.32-1 Admission Physical Exam Section

6.3.3.5 Relevant Studies

Add Section 6.3.3.3.5.1

6.3.3.5.1 Results

Add Section 6.3.3.3.5.2

6.3.3.5.2 Coded Results

Add Section 6.3.3.3.5.3

6.3.3.5.3 Hospital Studies Summary

Add Section 6.3.3.3.5.4

6.3.3.5.4 Coded Hospital Studies Summary

Add Section 6.3.3.3.5.5

6.3.3.5.5 Consultations 1.3.6.1.4.1.19376.1.5.3.1.1.13.2.8

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.8	
General Description	The ED Consultations section shall contain a narrative description of the consultations obtained during an encounter of care. Consultations themselves may be placed in the consultation section of the EDES folder.	
LOINC Code	**Opt**	**Description**
18693-2	R	ED CONSULTANT PRACTITIONER

```
<component>
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      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
  </section>
</component>
```

Figure 6.3.3.5.5-1 Specification for ED Consultations Section

Add Section 6.3.3.5.5.6

6.3.3.5.5.6 Antenatal Testing and Surveillance Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5	
Parent Template		
General Description	The Antenatal Testing and Surveillance section shall contain a narrative description of reports and data from tests and surveilllance performed during the pregnancy (e.g. Ultrasound, Biophysicial Profile, Non-Stress Test, Contraction Stress Test)	
LOINC Code	**Opt**	**Description**
57078-8	R	Antenatal testing and surveillance


```
<component>
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      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
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    </text>
</component>
```

Figure 6.3.3.5.5.6-1 Specification for and Surveillance Section

Add Section 6.3.3.5.5.7

6.3.3.5.5.7 Coded Antenatal Testing and Surveillance Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1	
Parent Template	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5	
General Description	The Antenatal Testing and Surveillance section shall contain a narrative and coded description of reports and data from tests and surveilllance performed during the pregnancy (e.g. Ultrasound, Biophysicial Profile, Non-Stress Test, Contraction Stress Test). It shall contain an Antenatal Testing and Surveillance Battery.	
LOINC Code	**Opt**	**Description**
57078-8	R	ANTENATAL TESTING AND SURVEILLANCE
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.21.3.10	R	Antenatal Testing and Surveillance Battery

```
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      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
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    </text>
    <entry>
       :
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       :
    </entry>
</component>
```

Figure 6.3-CATS Specification for Coded Antenatal Testing and Surveillance Section

Add Section 6.3.3.6

6.3.3.6 Plans of Care

Add Section 6.3.3.6.1

6.3.3.6.1 Care Plan

Add Section 6.3.3.6.2

6.3.3.6.2 Assessment and Plan

Add Section 6.3.3.6.3

6.3.3.6.3 Discharge Disposition

Add Section 6.3.3.6.4

6.3.3.6.4 Discharge Diet

Add Section 6.3.3.6.5

6.3.3.6.5 Advance Directives

Add Section 6.3.3.6.6

6.3.3.6.6 Coded Advance Directives

Add Section 6.3.3.6.7

6.3.3.6.7 Procedure Care Plan Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.40

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.40	
Parent Template	1.3.6.1.4.1.19376.1.5.3.1.3.31 (1.3.6.1.4.1.19376.1.5.3.1.3.31)	
General Description	The procedure care plan section shall contain a description of the expectations for care including proposals, goals, and order requests for monitoring, tracking, or improving the condition of the patient prior, during and after a procedure with goals of educating the patient, reducing the modifiable risks of the procedure and anesthesia and otherwise optimizing the outcomes. The care plan will often be updated immediately following the addition of new impressions during the course of pre-procedure evaluation.	
LOINC Code	**Opt**	**Description**
18776-5	R	TREATMENT PLAN
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1	O	Observation Requests The care plan may include observation requests in intent, goal or proposal mood to identify intended observations that are part of the care plan, goals of the plan, or proposed observations (e.g., from clinical decision support).
1.3.6.1.4.1.19376.1.5.3.1.4.7	O	Medication The care plan may include medication entries to identify those medications that are or are proposed to be part of the care plan.

1.3.6.1.4.1.19376.1.5.3.1.4.12	O	Immunization The care plan may include immunization entries to identify those immunizations that are or are proposed to be part of the care plan.
1.3.6.1.4.1.19376.1.5.3.1.4.19	O	Procedure The care plan may include procedure entries to identify those procedures that are or are proposed to be part of the care plan.
1.3.6.1.4.1.19376.1.5.3.1.4.14	O	Encounter The care plan may include encounter entries in to identify those encounters that are or are proposed to be part of the care plan.

Sample Procedure Care Plan Section

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      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>

</component>
```

Add Section 6.3.3.6.8

6.3.3.6.8 Procedure Care Plan Status Report Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.45

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.45	
Parent Template	1.3.6.1.4.1.19376.1.5.3.1.1.9.40 (1.3.6.1.4.1.19376.1.5.3.1.1.9.40)	
General Description	The procedure care plan status report section shall contain a description of the progress towards completing expectations for care including actions completed in fulfilment of proposals, goals, and order requests for monitoring, tracking, or improving the condition of the patient prior to the procedure.	
LOINC Code	**Opt**	**Description**
18776-5	R	TREATMENT PLAN

The parent of this template is 1.3.6.1.4.1.19376.1.5.3.1.1.9.40.

Sample Procedure Care Plan Status Report Section


```
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    <id root=' ' extension=' '/>
    <code code='18776-5' displayName='TREATMENT PLAN'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
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      Text as described above
    </text>
  </section>

</component>
```

Add Section 6.3.3.6.9

6.3.3.6.9 Health Maintenance Care Plan Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.50

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.50	
Parent Template	1.3.6.1.4.1.19376.1.5.3.1.3.31 (1.3.6.1.4.1.19376.1.5.3.1.3.31)	
General Description	The health maintenance care plan section shall contain a description of the expectations for wellness care including proposals, goals, and order requests for monitoring, tracking, or improving the lifetime condition of the patient with goals of educating the patient on how to reduce the modifiable risks of the patient's genetic, behavioral, and environmental pre-conditions and otherwise optimizing lifetime outcomes.	
LOINC Code	**Opt**	**Description**
18776-5	R	TREATMENT PLAN

The parent of this template is 1.3.6.1.4.1.19376.1.5.3.1.3.31.

Sample Health Maintenance Care Plan Section

```
<component>

  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.31'/>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.50'/>
    <id root=' ' extension=' '/>
    <code code='18776-5' displayName='TREATMENT PLAN'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>

</component>
```


Add Section 6.3.3.6.10

6.3.3.6.10 Health Maintenance Care Plan Status Report Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.41

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.41	
Parent Template	1.3.6.1.4.1.19376.1.5.3.1.1.9.50 (1.3.6.1.4.1.19376.1.5.3.1.1.9.50)	
General Description	The health maintenance status report section shall contain a description of the progress towards completing expectations for care including actions completed in fulfilment of proposals, goals, and order requests for monitoring, tracking, or improving the condition of the patient.	
LOINC Code	**Opt**	**Description**
18776-5	R	TREATMENT PLAN

The parent of this template is 1.3.6.1.4.1.19376.1.5.3.1.1.9.50.

Sample Health Maintenance Care Plan Status Report Section

```
<component>

  <section>    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.50'/>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.41'/>
    <id root=' ' extension=' '/>
    <code code='18776-5' displayName='TREATMENT PLAN'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>

</component>
```

Add Section 6.3.3.6.11

6.3.3.6.11 Provider Orders Section 1.3.6.1.4.1.19376.1.5.3.1.1.20.2.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.20.2.1	
General Description	The provider orders shall contain a list of all pertinent orders from healthcare providers.	
LOINC Code	**Opt**	**Description**
46209-3	R	PROVIDER ORDERS
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.7	C	Medications Medications entries shall appear for all ordered medications when present. These entries shall be in intent mood.

1.3.6.1.4.1.19376.1.5.3.1.4.19	C	Procedure Procedure entries shall appear for all ordered procedures when present. These entries shall be in intent mood.
1.3.6.1.4.1.19376.1.5.3.1.4.14	O	Encounter Encounter entries should appear for all ordered encounters. These entries shall be in promise or appointment request mood.
1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1	O	Observation Requests Observation request entries should appear for all ordered observations. These entries shall appear in intent mood.

Sample Provider Orders Section

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.20.2.1'/>
    <id root=' ' extension=' '/>
    <code code='46209-3' displayName='PROVIDER ORDERS'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
         :
      <!-- Required if known Medications element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.7'/>
         :
    </entry>
    <entry>
         :
      <!-- Required if known Procedure element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.19'/>
         :
    </entry>
    <entry>
         :
      <!-- Optional Encounter element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.14'/>
         :
    </entry>
    <entry>
         :
      <!-- Optional Observation Requests element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1'/>
         :
    </entry>

  </section>
</component>
```

Add Section 6.3.3.6.12

6.3.3.6.12 Birth Plan Section 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.1

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.1
Parent Template	
General Description	The Birth Plan section shall contain a narrative description of the patient's requests and expectations with respect to care she is expecting during the labor and delivery process.

LOINC Code	Opt	Description
57079-6	R	Birth plan

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.1'/>
    <id root=' ' extension=' '/>
    <code code='57079-6' displayName='Birth plan'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
</component>
```

Figure 6.3.3.6.12-1 Specification for Birth Plan Section

Add Section 6.3.3.6.13

6.3.3.6.13 Immunization Recommendations 1.3.6.1.4.1.19376.1.5.3.1.1.18.3.1

Template Id		1.3.6.1.4.1.19376.1.5.3.1.1.18.3.1
General Description		The Immunization Recommendation section shall be present to document the recommended vaccinations for the patient. It shall include Immunization entries in proposal mood describing the immunization plan to be developed by the Clinical Decision Support Service Actor. It may include a reference to a specific guideline in definition mood to indicate the guideline that should be conformed to, and may also include references to patient education information.
LOINC Code	**Opt**	**Description**
18776-5	R	TREATMENT PLAN
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.12.2	R	Immunization Recommendation Entry At least one Immunization Plan Entry shall be present in Proposal mood to indicate what the proposed care is for the patient. Other Immunization Plan entries may appear in intent mood to indicate the current plan.

Add Section 6.3.3.6.14

6.3.3.6.14 Patient Education Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.38

Template Id		1.3.6.1.4.1.19376.1.5.3.1.1.9.38
General Description		The patient education section shall contain a description of the patient education the patient received as well as the results of the education.
LOINC Code	**Opt**	**Description**
34895-3	R	EDUCATION NOTE
Entries	**Opt**	**Description**

1.3.6.1.4.1.19376.1.5.3.1.4.12.2	R	Immunization Recommendation Entry At least one Immunization Plan Entry shall be present in Proposal mood to indicate what the proposed care is for the patient. Other Immunization Plan entries may appear in intent mood to indicate the current plan.

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.38'/>
    <id root=' ' extension=' '/>
    <code code='34895-3' displayName='EDUCATION NOTE'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>
</component>
```

Figure 6.3.3.6.14-1 Specification for Patient Education and Consents Section

Add Section 6.3.3.6.15

6.3.3.6.15 Care Plan Section 1.3.6.1.4.1.19376.1.5.3.1.3.31

Template ID	1.3.6.1.4.1.19376.1.5.3.1.3.31	
Parent Template	2.16.840.1.113883.10.20.1.10	
General Description	The care plan section shall contain a narrative description of the expectations for care including proposals, goals, and order requests for monitoring, tracking, or improving the condition of the patient.	
LOINC Code	**Opt**	**Description**
18776-5	R	TREATMENT PLAN
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1	O	Observation Requests The care plan may include observation requests in intent, goal or proposal mood to identify intended observations that are part of the care plan, goals of the plan, or proposed observations (e.g., from clinical decision support).
1.3.6.1.4.1.19376.1.5.3.1.4.7	O	Medication The care plan may include medication entries to identify those medications that are or are proposed to be part of the care plan.
1.3.6.1.4.1.19376.1.5.3.1.4.12	O	Immunization The care plan may include immunization entries to identify those immunizations that are or are proposed to be part of the care plan.
1.3.6.1.4.1.19376.1.5.3.1.4.19	O	Procedure The care plan may include procedure entries to identify those procedures that are or are proposed to be part of the care plan.
1.3.6.1.4.1.19376.1.5.3.1.4.14	O	Encounter The care plan may include encounter entries in to identify those encounters that are or are proposed to be part of the care plan.


```
<component>
  <section>
    <templateId root='2.16.840.1.113883.10.20.1.10'/>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.31'/>
    <id root=' ' extension=' '/>
    <code code='18776-5' displayName='TREATMENT PLAN'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
         :
      <!-- Optional Observation Requests element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.20.3.1'/>
         :
    </entry>
    <entry>
         :
      <!-- Optional Medication element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.7'/>
         :
    </entry>
    <entry>
         :
      <!-- Optional Immunization element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.12'/>
         :
    </entry>
    <entry>
         :
      <!-- Optional Procedure element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.19'/>
         :
    </entry>
    <entry>
         :
      <!-- Optional Encounter element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.14'/>
         :
    </entry>

  </section>
</component>
```

Figure 6.3.3.6.15-1 Specification for Care Plan Section

6.3.3.6.16 Diet Restrictions Section 1.3.6.1.4.1.19376.1.5.3.1.1.20.2.2

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.20.2.2	
General Description	This shall contain a narrative description of the diet restrictions necessary due to disease.	
LOINC Code	**Opt**	**Description**
XX-DietRestrictions	R	Diet Restrictions


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.20.2.2'/>
    <id root=' ' extension=' '/>
    <code code='XXDiet-Restrictions' displayName='Diet Restrictions'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
  </section>
</component>
```

Figure 6.3.3.6.16-1 Specification for Diet Restrictions Section

6.3.3.6.17 Fluid Management Section 1.3.6.1.4.1.19376.1.5.3.1.1.20.2.3

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.20.2.3	
General Description	This section shall contain a narrative description of specific fluid inputs or fluid outputs for the patient.	
LOINC Code	**Opt**	**Description**
XX-FluidManagement	R	

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.20.2.3'/>
    <id root=' ' extension=' '/>
    <code code='XX-FluidManagement' displayName='Fluid Management'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
  </section>
</component>
```

Figure 6.3.3.6.17-1 Specification for Fluid Management Section

Add Section 6.3.3.7

6.3.3.7 Administrative and Other Information

Add Section 6.3.3.3.7.1

6.3.3.7.1 Payers

Add Section 6.3.3.3.7.2

6.3.3.7.2 Referral Source

Add Section 6.3.3.3.7.3

6.3.3.7.4 ED Disposition

Add Section 6.3.3.8

6.3.3.8 Procedures Performed

1830

Add Section 6.3.3.3.8.3

6.3.3.8.3 Procedures and Interventions Section 1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11
General Description		The Procedures and Interventionssection shall contain a narrative description of the actions performed by a clinician.
LOINC Code	**Opt**	**Description**
29544-3	R	PROCEDURES
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.19	R	Procedures This entry provides coded values for procedures performed during the encounter.

1835

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.11'/>
    <id root=' ' extension=' '/>
    <code code='X-PROC' displayName='PROCEDURES PERFORMED'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Required Procedures element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.19'/>
        :
    </entry>

  </section>
</component>
```

Figure 6.3.3.8.3-1 Specification for Procedures and Interventions Section

1855

Add Section 6.3.3.3.8.4

6.3.3.8.4 Intravenous Fluids Administered Section 1.3.6.1.4.1.19376.1.5.3.1.1.13.2.6

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.13.2.6
General Description		The intravenous fluids administered section shall contain a narrative description of fluids administered to a patient during the course of an encounter. It may include entries for IV fluid administration as described in the Entry Content Module.
LOINC Code	**Opt**	**Description**
57072-1	R	Intravenous fluids administered
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.13.3.2	R	Intravenous Fluids Administered

```
<component>
  <section>
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    <id root=' ' extension=' '/>
    <code code='57072-1' displayName='Intravenous fluids administered'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Required Intravenous Fluids Administered element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.3.2'/>
        :
    </entry>

  </section>
</component>
```

Figure 6.3.3.8.4-1 Specification for Intravenous Fluids Administered Section

Add Section 6.3.3.9

6.3.3.9 Impressions

Add Section 6.3.3.9.1

6.3.3.9.1 Pre-procedure Impressions Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.42

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.9.42
General Description		The Impressions section shall contain only the required and optional subsections dealing with the updated problem list, the general risks the patient faces from the procedures, and the fixed and modifiable risks the patient faces because of specific patient findings.
LOINC Code	**Opt**	**Description**
34895-3	R	EDUCATION NOTE

Subsections	Opt	Description
1.3.6.1.4.1.19376.1.5.3.1.1.9.44	R	Pre-procedure Risk Assessment

```
<component>

  <section>    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.6'/>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.42'/>
    <id root=' ' extension=' '/>
    <code code='34895-3' displayName='EDUCATION NOTE'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <component>
      <section>
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.44'/>
        <!-- Required Pre-procedure Risk Assessment Section content -->
      </section>
    </component>

  </section>

</component>
```

Figure 6.3.3.9.1-1 Specification for Pre-procedure Impressions Section

Add Section 6.3.3.9.2

6.3.3.9.2 Pre-procedure Risk Assessment Section 1.3.6.1.4.1.19376.1.5.3.1.1.9.44

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.9.44	
General Description	The pre-procedure risk section shall contain a description of the risks the patient faces because of the planned procedure and associated anethesia, especially in the context of modifiable risks identified by patient findings. It shall include entries for patient risks as described in the Entry Content Module.	
LOINC Code	**Opt**	**Description**
11450-4	R	PROBLEM LIST
Subsections	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.5	R	Conditions Entry

The parent of this template is 1.3.6.1.4.1.19376.1.5.3.1.3.6


```
<component>

  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.6'/>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.44'/>
    <id root=' ' extension=' '/>
    <code code='11450-4' displayName='PROBLEM LIST'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
         :
      <!-- Required Conditions Entry element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.5'/>
         :
    </entry>

  </section>

</component>
```

Figure 6.3.3.9.2-1 Specification for Pre-procedure Risk Assessment Section

Add Section 6.3.3.9.3

6.3.3.9.3 Antepartum Visit Summary Flowsheet Section 1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.2

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.2	
General Description	This section is a running history of the most important elements noted for a pregnant woman.	
LOINC Code	**Opt**	**Description**
57059-8	R	Pregnancy visit summary
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.13	R	Simple Observation The flowsheet contains one simple observation to represent the Prepregancy Weight. This observation SHALL be valued with the LOINC code 8348-5, BODY WEIGHT^PRE PREGNANCY-MASS-PT-QN-MEASURED. The value SHALL be of type PQ. The units may be either "lb_av" or "kg".
1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.2	R	Antepartum Flowsheet Panel Other entries on the flowsheet are "batteries" which represent a single visit.


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.2'/>
    <id root=' ' extension=' '/>
    <code code='57059-8' displayName='Pregnancy visit summary'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
         :
      <!-- Required Simple Observation element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
         :
    </entry>
    <entry>
         :
      <!-- Required Antepartum Flowsheet Panel element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.2'/>
         :
    </entry>

  </section>
</component>
```

Figure 6.3.3.9.3-1 Specification for Antepartum Visit Summary Flowsheet Section

Add Section 6.3.3.9.4

6.3.3.9.4 Progress Note Section 1.3.6.1.4.1.19376.1.5.3.1.1.13.2.7

Template ID	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.7	
General Description	The Progress Note section shall contain a narrative description of the sequence of events from initial assessment to discharge for an encounter.	
LOINC Code	**Opt**	**Description**
18733-6	R	SUBSEQUENT EVALUATION NOTE (ATTENDING PHYSICIAN)

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.7'/>
    <id root=' ' extension=' '/>
    <code code='18733-6' displayName='SUBSEQUENT EVALUATION NOTE (ATTENDING PHYSICIAN)'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>

  </section>
</component>
```

Figure 6.3.3.9.4-1 Specification for Progress Note Section

Add Section 6.3.3.9.5

6.3.3.9.5 ED Diagnosis Section 1.3.6.1.4.1.19376.1.5.3.1.1.13.2.9

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.13.2.9
General Description		The ED diagnosis section shall contain a narrative description of the conditions that were diagnosed or addressed during the ED course, as well as those active conditions that modify the complexity of the patient encounter. It should include entries for patient conditions as described in the Entry Content Module.
LOINC Code	**Opt**	**Description**
11301-9	R	ED DIAGNOSIS
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.4.5	R	Conditions Entry

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.9'/>
    <id root=' ' extension=' '/>
    <code code='11301-9' displayName='ED DIAGNOSIS'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Required Conditions Entry element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.5'/>
        :
    </entry>

  </section>
</component>
```

Figure 6.3.3.9.5-1 Specification for ED Diagnosis Section

Add Section 6.3.3.9.6

6.3.3.9.6 Acuity Assessment Section 1.3.6.1.4.1.19376.1.5.3.1.1.13.2.2

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.13.2.2
General Description		The Acuity Assessment section contains a description of the acuity of the patient upon presentation to the Emergency department.
LOINC Code	**Opt**	**Description**
11283-9	R	ACUITY ASSESSMENT
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.13.3.1	R	Acuity This entry provides coded values giving the triage acuity.


```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.2'/>
    <id root=' ' extension=' '/>
    <code code='11283-9' displayName='ACUITY ASSESSMENT'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Required Acuity element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.3.1'/>
        :
    </entry>

  </section>
</component>
```

Figure 6.3.3.9.6-1 Specification for Acuity Assessment Section

Add Section 6.3.3.9.7

6.3.3.9.7 Assessments Section 1.3.6.1.4.1.19376.1.5.3.1.1.13.2.4

Template ID		1.3.6.1.4.1.19376.1.5.3.1.1.13.2.4
General Description		The assessments section contains narrative assessments of the patient status.
LOINC Code	**Opt**	**Description**
51848-0	R	ASSESSMENT
Entries	**Opt**	**Description**
1.3.6.1.4.1.19376.1.5.3.1.1.13.3.4	O	Nursing Assessments Battery

```
<component>
  <section>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.4'/>
    <id root=' ' extension=' '/>
    <code code='51848-0' displayName='ASSESSMENT'
      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <text>
      Text as described above
    </text>
    <entry>
        :
      <!-- Optional Nursing Assessments Battery element -->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.3.4'/>
        :
    </entry>

  </section>
</component>
```

Figure 6.3.3.9.7-1 Specification for Assessments Section

Add Section 6.3.4

6.3.4 CDA Entry Content Modules

Add Section 6.3.4.25 after

6.3.4.25 Family History Observation 1.3.6.1.4.19376.1.5.3.1.4.13.3

A family history observation is a Simple Observation that uses a specific vocabulary, and inherits constraints from CCD. Family history observations are found inside Family History Organizers.

6.3.4.25.1 Standards

CCD ASTM/HL7 Continuity of Care Document

6.3.4.25.2 Parent Template

The parent of this template is Simple Observation. This template is compatible with the ASTM/HL7 Continuity of Care Document template: 2.16.840.1.113883.10.20.1.22

6.3.4.25.3 Specification

```
<observation typeCode='OBS' moodCode='EVN'>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
 <templateId root='2.16.840.1.113883.10.20.1.22'/>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13.3'/>
 <id root=' ' extension=' '/>
 <code code=' ' displayName=' ' codeSystem=' ' codeSystemName=' '/>
 <text><reference value='#xxx'/></text>
 <statusCode code='completed'/>
 <effectiveTime value=' '/>
 <repeatNumber value=' '/>
 <value xsi:type='CD' .../>
 <interpretationCode code=' ' codeSystem=' ' codeSystemName=' '/>
 <methodCode code=' ' codeSystem=' ' codeSystemName=' '/>
 <targetSiteCode code=' ' codeSystem=' ' codeSystemName=' '/>
</observation>
```

Figure 0-X1 Family History Specification

6.3.4.25.4 <templateId root='2.16.840.1.113883.10.20.1.22'/> <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13.3'/>

The <templateId> elements identify this observation as a family history observation, and shall be present as shown above.

6.3.4.25.5<code code=' ' displayName=' ' codeSystem=' ' codeSystemName=' '/>

The <code> indicates the type of observation made (e.g., Diagnosis, et cetera). See the code element in the Problem Entry entry for suggested values.

6.3.4.25.6 <value xsi:type='CD' code=' ' displayName=' ' codeSystem=' ' codeSystemName=' '/>

The <value> element indicates the information (e.g., diagnosis) of the family member. See the value element in the Problem Entry for suggested values.

Add Section 6.3.4.26

6.3.4.26 Pregnancy Observation 1.3.6.1.4.19376.1.5.3.1.4.13.5

A pregnancy observation is a Simple Observation that uses a specific vocabulary to record observations about a patient's pregnancy history.

6.3.4.26.1 Parent Template

The parent of this template is Simple Observation.

6.3.4.26.2 Specification

```
<observation typeCode='OBS' moodCode='EVN'>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13.5'/>
 <id root=' ' extension=' '/>
 <code code=' ' displayName=' ' codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
 <text><reference value='#xxx'/></text>
 <statusCode code='completed'/>
 <effectiveTime value=' '/>
 <repeatNumber value=' '/>
 <value xsi:type=' ' .../>
 <interpretationCode code=' ' codeSystem=' ' codeSystemName=' '/>
 <methodCode code=' ' codeSystem=' ' codeSystemName=/>
 <targetSiteCode code=' ' codeSystem=' ' codeSystemName=' '/>
</observation>
```

6.3.4.26.3<templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/> <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13.5'/>

These <templateId> elements identify this <observation> as a pregnancy observation, allowing for validation of the content. The <templateId> elements shall be recorded as shown above.

6.3.4.26.4 <code code=' ' displayName=' ' codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>

A pregnancy observation shall have a code describing what facet of patient's pregnancy history is being recorded. These codes should come from the list of codes shown below. Additional codes may be used to reflect additional information about the pregnancy history.

Table 6.3.4.26.4-1 LOINC Codes for Pregnancy Observation

LOINC CODE	Description	Type	Units or Vocabulary

Past Pregnancy History			
11636-8	BIRTHS LIVE (REPORTED)	INT	N/A
11637-6	BIRTHS PRETERM (REPORTED)		
11638-4	BIRTHS STILL LIVING (REPORTED)		
11639-2	BIRTHS TERM (REPORTED)		
11640-0	BIRTHS TOTAL (REPORTED)		
11612-9	ABORTIONS (REPORTED)		
11613-7	ABORTIONS INDUCED (REPORTED)		
11614-5	ABORTIONS SPONTANEOUS (REPORTED)		
33065-4	ECTOPIC PREGNANCY (REPORTED)		
57062-2	Births.stillborn		SNOMED-CT 237364002

Detailed Pregnancy Data			
11449-6	PREGNANCY STATUS	CE	SNOMED CT, ICD-9-CM (V22)
8678-5	MENSTRUAL STATUS		SNOMED CT
8665-2	DATE LAST MENSTRUAL PERIOD	TS	N/A
11778-8	DELIVERY DATE (CLINICAL ESTIMATE)	TS	
11779-6	DELIVERY DATE (ESTIMATED FROM LAST MENSTRUAL PERIOD)		
11780-4	DELIVERY DATE (ESTIMATED FROM OVULATION DATE)		

LOINC CODE	Description	Type	Units or Vocabulary
Past Pregnancy History			
11884-4	FETUS, GESTATIONAL AGE (CLINICAL ESTIMATE)	PQ	d, wk or mo
11885-1	FETUS, GESTATIONAL AGE (ESTIMATED FROM LAST MENSTRUAL PERIOD)		
11886-9	FETUS, GESTATIONAL AGE (ESTIMATED FROM OVULATION DATE)		
11887-7	FETUS, GESTATIONAL AGE (ESTIMATED FROM SELECTED DELIVERY DATE)		
45371-2	MULTIPLE PREGNANCY		

6.3.4.26.5 ~~<repeatNumber value=' '/>~~

The <repeatNumber> element should not be present in a pregancy observation.

6.3.4.26.6 <value xsi:type=' ' .../>

The value of the observation shall be recording using a data type appropriate to the coded observation according to the table above.

6.3.4.26.7 ~~<interpretationCode code=' ' codeSystem=' ' codeSystemName=' '/> <methodCode code=' ' codeSystem=' ' codeSystemName=' '/> <targetSiteCode code=' ' codeSystem=' ' codeSystemName=' '/>~~

The <interpretationCode>, <methodCode>, and <targetSiteCode> should not be present in a pregnancy observation.

Add Section 6.3.4.C 27

6.3.4.27 EDD Observation 1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.1

The EDD observation reflects the clinicians best judgement about the estimated delivery date of the patient. It can be supported by patient history (eg last menses or quickening), physical examination findings (uterine size), or Ultrasound. The observation is a Simple Observation with a supporting entryRelation of another Observation. The supporting observation may in turn have a entryRelation that gives the original observation as a gestational age or date from which the estimated due date is calculated.

6.3.4.27.1 Specification

```
<observation classCode='OBS' moodCode='EVN'>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.1'>
 <statusCode code='completed'/>
 <effectiveTime value=' '/>
 <author typeCode='AUT'>
   <time value=' '/>
   <assignedAuthor>
     <id root=' ' extension=' '/>
   </assignedAuthor>
 </author>
 <id root=' ' extension=' '/>
 <code code='11778-8'
       displayName='DELIVERY DATE-TMSTP-PT-^PATIENT-QN-CLINICAL.ESTIMATED'
       codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
 <text><reference value='id-foo'/></text>
 <value xsi:type='TS' value=' '/>
 <entryRelationship typeCode='SPRT'>
   <observation classCode='OBS' moodCode='EVN'>
     <id root=' ' extension=' '/>
     <statusCode code='completed'/>
     <effectiveTime value=' '/>
     <author typeCode='AUT'>
        <time value=' '/>
        <assignedAuthor classCode=' '>
          <id root=' ' extension=' '/>
        </assignedAuthor>
     </author>
     <code code='[11779-6|(xx-EDD-by-PE)|11781-2|(xx-EDD-by-Qck)|(xx-EDD-by-Fund)]'
           codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
     <value type='TS' value=' '>
     <entryRelationship typeCode='DRIV'>
       <observation  classCode='OBS' moodCode='EVN'>
         <id root=' ' extension=' '/>
         <statusCode code='completed'/>
         <effectiveTime value=' '/>
         <author typeCode='AUT'>
           <time value=' '/>
           <assignedAuthor>
             <id root=' ' extension=' '/>
           </assignedAuthor>
         </author>
         <informant typeCode='INF'>
           <relatedEntity classCode=' '>
             <id root=' ' extension=' '/>
           </relatedEntity>
         </informant>
         <code code='[8655-2|(xx-ga-by-pe)|11888-5|(xx-date-of-qck)|(xx-date-of-fund-umb) ]'
               codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
         <value type='[PQ|TS]' value=' ' units='week'/>
       </observation>
     </entryRelationship>
   </observation>
 </entryRelationship>
</observation>
```

6.3.4.27.2 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.1'/>

The <templateId> identifies the observation as a type of Estimated Delivery Date Observation. The root attribute SHALL be valued with '1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.1'.

6.3.4.27.3 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>

EDD observation SHALL comply with the restrictions of the Simple Observation entry. The observation SHALL NOT include repeatNumber, interpretationCode, methodCode, or targetSiteCode as listed below.

6.3.4.27.4 <code code='11778-8' codeSystem='2.16.840.1.113883.6.1'/>

The <code> element indicates that this is a "clinically estimated" estimated delivery date (for example, this code is used to represent the field on the last line of the EDD section of the ACOG form). This code SHALL be the LOINC code 11778-8. It is good style to include the displayName and codeSystemName to help debugging.

6.3.4.27.5 <value xsi:type='TS' value=' '>

The value of the EDD SHALL be represented as a point in time.

6.3.4.27.6 <author typeCode='AUT'><assignedAuthor><id root=' ' extension=' '/></assignedAuthor></author>

There may be multiple clinicians following the patient and authoring the overall document, however the EDD observation has an individual author. For CDA based content, this author SHALL be listed in the CDA header and referenced from the entry by including the id element of the assignedAuthor. For HL7 Version 3 Messages based content, the author SHALL be included in full through this element.

6.3.4.27.7 <author typeCode='AUT'><time value=' '/></author>

The author.time is used to record the time that the author recorded the observation. It SHALL be included.

6.3.4.27.8 <entryRelationship typeCode='SPRT'>

The <entryRelationship> element binds the clinicians estimated EDD to supporting observations by different methods. Supporting observations SHOULD be included. If included, the typeCode SHALL be 'SPRT'. For HL7 Version 3 Messages based content, the element name is <sourceOf> rather than <entryRelationship>, however the semantics, typeCode, and nested elements remain unchanged.

6.3.4.27.9 <observation>
<templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
:
</observation> [1st nesting]

Observations that support the clinical observation SHALL be included if known. These observations are the supporting calculated dates from various methods such as ultrasound dates or dates calculated from LMP (i.e., the left column of fields on the ACOG form). Supporting observations SHALL also conform to the simple observation template. Supporting observations MAY include a different effectiveTime, author, or informant. Supporting observations SHALL NOT include repeatNumber, interpretationCode, methodCode, or targetSiteCode. (Method is implied by the LOINC code). The templateId SHALL be valued as '1.3.6.1.4.1.19376.1.5.3.1.4.13'

6.3.4.27.10 <code code=' ' codeSystem='2.16.840.1.113883.6.1'/> [1st nesting]

Supporting observations SHALL include one of following LOINC values to indicate the method used to calculate the EDD.

Code	Description
11779-6	Delivery date Estimated from last menstrual period
(xx-EDD-by-PE)	DELIVERY DATE-TMSTP-PT-^PATIENT-QN-ESTIMATED FROM CLINICIANS PHYSICAL EXAM
11781-2	Delivery date composite estimate
57063-0	Delivery date Estimated from quickening date
57064-8	Delivery date Estimated from date fundal height reaches umb

6.3.4.27.11 <entryRelationship typeCode='DRIV'>

Observations of supporting EDD should provide observations from which they were derived such as the patients last menses, or gestational age value at a point in time.

For HL7 Version 3 Messages based content, the element name is <sourceOf> rather than <entryRelationship>, however the semantics, typeCode, and nested elements remain unchanged.

6.3.4.27.12 <observation>
<templateId root=' '/>
:
</observation> [2st nesting]

Observations that support the calculation of supporting observation SHALL be included if known. These observations are the supporting dates or ages from various methods such as ultrasound gestational age or the date of last Menses (for example, the right column of fields on the ACOG form). Supporting observations SHALL also conform to the simple observation

template. Supporting observations MAY include a different effectiveTime, author, or informant. Supporting observations SHALL NOT include repeatNumber, interpretationCode, methodCode, or targetSiteCode. (Method is implied by the LOINC code)

6.3.4.27.13 <code code=' ' codeSystem='2.16.840.1.113883.6.1'/> [2nd nesting]

This code is used to represent the either the relevant date, or the gestational age observation from which the EDD is derived. The following table lists the relevant LOINC codes for methods used. For observations that record the gestational age the value is recorded as a physical quantity (PQ) with the units of weeks and the activity time should be recorded to indicate the date at which the gestational age was observed. For observations that simply record a date (eg LMP) the observation value is recorded as a point in time (TS).

Code	Description	Type
8655-2	DATE LAST MENSTRUAL PERIOD-TMSTP-PT-^PATIENT-QN-REPORTED	TS
	GESTATIONAL AGE-TIME-PT-^FETUS-QN-ESTIMATED FROM CLINICIANS PHYSICAL EXAM M	PQ
11888-5	Gestational age composite estimate	PQ
57065-5	Quickening date	TS
57066-3	Date fundal height reaches umbilicus	TS

6.3.4.27.13 <repeatNumber value=' '/> <interpretationCode code=' ' codeSystem=' '/> <targetSiteCode code=' ' codeSystem=' '/>

The <repeatNumber> <interpretationCode>, and <targetSiteCode> elements should not be present in an EDD observation.

Add Section 6.3.4.28

6.3.4.28 Antepartum Visit Summary Battery 1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.2

This entry describes a single row in the Antepartum Visit Summary Flowsheet. The single observation date and provider is applied to all other observations.

6.3.4.28.1 Specification

```
<entry>
  <organizer classCode='BATTERY' moodCode='EVN'>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.2'/>
    <id root=' ' extension=' '/>
    <code code='57061-4' displayName='Antepartum flowsheet panel'
          codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <statusCode code='completed'/>
    <author>
       <time value=' '/>
       <assignedAuthor>
          <id root=' ' extension=' '/>
       </assignedAuthor>
    </author>
    <component>
       <observation classCode='OBS' moodCode='EVN'>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
          :
       </observation>
    </component>
    <component>
       <observation classCode='OBS' moodCode='EVN'>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
           :
       </observation>
    </component>
    :
  </organizer>
</entry>
```

6.3.4.28.2 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.2'/>

The <templateId> element specifies that this organizer entry conforms to the APS profile Antepartum Visit Summary Flowsheet battery. The root attribute SHALL contain the value "1.3.6.1.4.1.19376.1.5.3.1.1.11.2.3.2"

6.3.4.28.3 <organizer classCode='BATTERY' moodCode='EVN'>

Each row in the visit Summary flowsheet of the Antepartum Summary SHALL be represented by an organizer with the classCode of 'BATTERY' and the moodCode of 'EVN'

6.3.4.28.4 <id root=' ' extension=' '/>

Each battery SHALL have a globally unique identifier.

6.3.4.28.5 <code code='(xx-acog-battery)' codeSystem='2.16.840.1.113883.6.1'/>

The <code> element specifies the loinc code that represents the content of the battery. The codeSystem attribute SHALL contain the value '2.16.840.1.113883.6.1'. The code attribute SHALL contain the value='(xx-acog-battery)'. It is good practice to include displayName and codeSystemName for clarity and debugging. The corresponding values are 'ACOG VISIT SUMMARY BATTERY--PT--' and 'LOINC' respectively.

6.3.4.28.6 <author/><time/><assignedAuthor><id/></assignedAuthor></author>

The <author> relation element points at the author that records the visit battery. This assignedAuthor may be different than the author of the document. The time element is used to record when the assigned author recorded the battery.

6.3.4.28.7 <statusCode code='completed'/>

The status code for all batteries SHALL be 'completed'

6.3.4.28.8 <component>

The battery is made of several component simple observations. The following table lists the allowable LOINC codes, displayNames, and observation types, and unit of measures for these observations.

LOINC Code	displayName	xsi:type	units	value set
11884-4	Gestational age Clinical.estimate	PQ	week	
57067-1 or 11727-5 (by US)	Fetal Body weight Estimated by palpation or Fetal weight estimated by US	PQ	g, kg, lb_av, or oz_av	
11881-0	Uterus Fundal height Tape measure	PQ	cm	
11876-0 (by PE) or 11877-8 (by US)	Fetal presentation by palpitation or Fetal presentation US	CD		SNOMED CT Vertex (70028003) Breech (6096002) Transverse (73161006) Oblique (63750008) Compound (124736009) Brow (8014007) Face (21882006)
11948-7 or 57068-9	Fetal Heart rate US or Fetal Heart rate Auscultation	PQ	/min	

LOINC Code	displayName	xsi:type	units	value set
57088-7	Fetal Movement - Reported	CO		SNOMED CT fetal movement activity (finding) CID 364755008 baby kicks a lot (finding) CID 276368003 baby not moving (finding) CID 276370007 reduced fetal movement (finding) CID 276369006 fetal movements present (finding) CID 289431008 fetal movements felt (finding) CID 268470003 fetal movements seen (finding) CID 169731002
57069-7	Preterm labor symptoms	BL		
11709-7 or 11785-3	DILATION-LEN-PT-CERVICAL CANAL.external os -QN-PALPATION or DILATION-LEN-PT-CERVICAL CANAL.external os-QN-US	PQ	cm	
11867-9	Effacement Cervix by palpitation	PQ	percent	
11961-0	Cervix [Length] US	PQ	cm	
8480-6	Systolic blood pressure	PQ	mmHg	
8462-4	Diastolic blood pressure	PQ	mmHg	
3141-9	Body weight Measured	PQ	g, kg, lb_av, or oz_av	
1753-3	Albumin [Presence] in Urine	CO		SNOMED CT Negative (finding) CID 167273002 Trace (finding) CID 167274008 1+ (finding) CID 167275009 2+ (finding) CID 167276005 3+ (finding) CID 167277001 4+ (finding) CID 167278006

LOINC Code	displayName	xsi:type	units	value set
2349-9 or 25428-4(test strip)	Glucose [Presence] in Urine or Glucose [Presence] in Urine by Test strip	CO		SNOMED CT Negative (finding) CID 167261002 Trace (finding) CID 167262009 1+ (finding) CID 167264005 2+ (finding) CID 167265006 3+ (finding) CID 167266007 4+ (finding) CID 167267003
44966-0	Edema	CO		SNOMED CT Trace 44996-0 1+ pitting edema 420829009 2+ pitting edema 421605005 3+ pitting edema 421346005 4+ pitting edema 421129002
38208-5	Pain severity - Reported	CO		0 (no pain) : 10 (worst possible pain) Note: This observation should correspond to the functional status pain score observation
57070-5	Date next clinic visit	PQ	day,week,mo	
48767-8	Annotation comment	ED		

Add Section 6.3.4.29

6.3.4.29 Advance Directive Observation 1.3.6.1.4.1.19376.1.5.3.1.4.13.7

An advance directive observation is a simple observation that uses a specific vocabulary, and inherits constraints from CCD.

6.3.4.29.1 Standards

CCD	ASTM/HL7 Continuity of Care Document

6.3.4.29.2 Specification

```
<observation typeCode='OBS' moodCode='EVN'>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
 <templateId root='2.16.840.1.113883.10.20.1.17'/>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13.7'/>
 <id root=' ' extension=' '/>
 <code code=' ' codeSystem='2.16.840.1.113883.6.96' codeSystemName='SNOMED CT'/>
 <text><reference value='#xxx'/></text>
 <statusCode code='completed'/>
 <effectiveTime value=' '/>
  <value xsi:type='BL' value='true|false'/>
  <reference typeCode='REFR'>
   <templateId root='2.16.840.1.113883.10.20.1.36'/>
   <externalDocument classCode='DOC' moodCode='EVN'>
     <id root=' ' extension=' '/>
     <text><reference value=' '/></text>
   </externalDocument>
 </reference>
</observation>
```

An advanced directive <observation> shall be represented as shown above. They shall not contain any <repeatNumber>, <interpretationCode>, <methodCode> or <targetSiteCode> elements.

6.3.4.29.3 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/> <templateId root='2.16.840.1.113883.10.20.1.17'/> <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13.7'/>

The <templateId> elements shown above shall be present, and indicated that this is an Advance Directive entry.

6.3.4.29.4 <code code=' ' codeSystem='2.16.840.1.113883.6.96' codeSystemName='SNOMED CT'/>

The <code> element records the type of advance directive. It should use one of the following SNOMED codes in the table below.

Code	Description	Data Type
304251008	Resuscitation	BL
52765003	Intubation	
225204009	IV Fluid and Support	
89666000	CPR	
281789004	Antibiotics	
78823007	Life Support	
61420007	Tube Feedings	
116859006	Transfusion of blood product	
71388002	Other Directive	<value> not permitted

6.3.4.29.5 <value xsi:type='BL' value='true|false'/>

The advance directive observation may include a <value> element using the Boolean (xsi:type='BL') data type to indicate simply whether the procedure described is permitted. Absence of the the <value> element indicates that an advance directive of the specified type has been recorded, and must be examined to determine what type of treatment should be performed. The value element is not permitted when the <code> element describes an Other directive.

6.3.4.29.6 <reference typeCode='REFR'> <templateId root='2.16.840.1.113883.10.20.1.36'/> <externalDocument classCode='DOC' moodCode='EVN'> <id root=' ' extension=' '/> <text><reference value=' '/></text>

The advanced directive observation may contain a single reference to an external document. That reference shall be recorded as shown above. The <id> element shall contain the appropriate root and extension attributes to identify the document. The <text> element may be present to provide a URL link to the document in the value attribute of the <reference> element. If the <reference> element is present, the Advance Directive in the narrative shall contain a <linkHTML> element to the same URL found in the value attribute.

Add Section 6.3.4.30

6.3.4.30 Blood Type Observation 1.3.6.1.4.1.19376.1.5.3.1.4.13.6

6.3.4.30.1 Standards

CCD ASTM/HL7 Continuity of Care Document

6.3.4.30.2 Specification


```
<observation typeCode='OBS' moodCode='EVN'>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13.6'/>
 <templateId root='2.16.840.1.113883.10.20.1.31'/>
 <id root=' ' extension=' '/>
 <code code='882-1' displayName='ABO+RH GROUP'
   codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
 <text><reference value='#xxx'/></text>
 <statusCode code='completed'/>
 <effectiveTime value=' '/>
 <repeatNumber value=' '/>
 <value xsi:type='CE' code=' ' displayName=' ' codeSystem=' ' codeSystemName=' '/>
 <interpretationCode code=' ' codeSystem=' ' codeSystemName=' '/>
 <methodCode code=' ' codeSystem=' ' codeSystemName=' '/>
 <targetSiteCode code=' ' codeSystem=' ' codeSystemName=' '/>
<observation>
```

<templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>

<templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13.6'/>

<templateId root='2.16.840.1.113883.10.20.1.31'/>

These <templateId> elements identify this as a blood type observation. They shall be present in the <observation> element as shown above.

<code code='882-1' displayName='ABO+RH GROUP'

codeSystem='2.16.840.1.113883.6.1'

codeSystemName='LOINC'/>

The <code> element shall be present to represent this as a finding of the patient's composite blood type. It shall use the code and codeSystem attributes shown above.

~~**<repeatNumber value=' '/>**~~

The <repeatNumber> element should not be present in a blood type observation.

<value xsi:type='CE' code=' ' displayName=' '

codeSystem=' ' codeSystemName=' '/>

The <value> element shall be present and shall use the CE data type. The code attribute should be valued using a vocabulary that supports encoding of blood types. The table below shows some coding systems that may be used to encode blood type.

Coding System	OID

Coding System	OID
ISBT 128	2.16.840.1.113883.6.18
SNOMED CT	2.16.840.1.113883.6.96

~~**<interpretationCode code=' ' codeSystem=' ' codeSystemName=' '/>**~~

~~**<methodCode code=' ' codeSystem=' ' codeSystemName=' '/>**~~

~~**<targetSiteCode code=' ' codeSystem=' ' codeSystemName=' '/>**~~

The <interpretationCode>, <methodCode>, and <targetSiteCode> should not be present in a blood type observation.

Add Section 6.3.4.31

6.3.4.31 Encounters 1.3.6.1.4.1.19376.1.5.3.1.4.14

6.3.4.31.1 Standards

CCD ASTM/HL7 Continuity of Care Document

6.3.4.31.2 Specification


```
<encounter classCode='ENC' moodCode='PRMS|ARQ|EVN'>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.14'/>
 <templateId root='2.16.840.1.113883.10.20.1.21'/>
 <templateId root='2.16.840.1.113883.10.20.1.25'/>
 <id root='' extension=''/>
 <code code='' codeSystem='2.16.840.1.113883.5.4' codeSystemName='ActEncounterCode' />
 <text><reference value='#xxx'/></text>
 <effectiveTime>
   <low value=''/>
   <high value=''/>
 </effectiveTime>
 <priorityCode code=''/>
 <performer typeCode='PRF'>
   <time><low value=''/><high value=''/></time>
   <assignedEntity>...</assignedEntity>
 </performer>
 <author />
 <informant />
 <participant typeCode='LOC'>
   <participantRole classCode='SDLOC'>
     <id/>
     <code/>
     <addr>...</addr>
     <telecom value='' use=''/>
     <playingEntity classCode='PLC' determinerCode='INST'>
       <name></name>
     </playingEntity>
   </participantRole>
 </participant>
</encounter>
```

6.3.4.31.2.1 <encounter classCode='ENC' moodCode='APT|ARQ|EVN'>

This element is an encounter. The classCode shall be 'ENC'. The moodCode may be PRMS to indicated a scheduled appointment, ARQ to describe a request for an appointment that has been made but not yet scheduled by a provider, or EVN, to describe an encounter that has already occurred.

6.3.4.31.2.2 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.14'/>

The templateId indicates that this <encounter> entry conforms to the constraints of this content module. NOTE: When the encounter is in event mood (moodCode='EVN'), this entry conforms to the CCD template 2.16.840.1.113883.10.20.1.21, and when in other moods, this entry conforms to the CCD template 2.16.840.1.113883.10.20.1.25.

6.3.4.31.2.3 <id root='' extension=''/>

This required element shall contain an identifier for the encounter. More than one encounter identifier may be present.

6.3.4.31.2.4 <code code='' codeSystem='2.16.840.1.113883.5.4' codeSystemName='ActEncounterCode' />

This required element should contain a code from the HL7 ActEncounterCode vocabulary describing the type of encounter (e.g., inpatient, ambulatory, emergency, et cetera). Developers should take care to check that rational combinations of encounter.code and encounter.moodCode are used , but this profile does not restrict any combination.

6.3.4.31.2.5 <text><reference value='#xxx'/></text>

The <text> element shall contain a reference to the narrative text describing the encounter.

6.3.4.31.2.6 <effectiveTime><low value=''/><high value=''/></effectiveTime>

This element records the time over which the encounter occurred (in EVN mood), or the desired time of the encounter in ARQ or APT mood. In EVN or APT mood, the effectiveTime element should be present. In ARQ mood, the effectiveTime element may be present, and if not, the priorityCode may be present to indicate that a callback is required to schedule the appointment.

6.3.4.31.2.7 <priorityCode code='CS'/>

This element may be present in ARQ mood to indicate a callback is requested to schedule the appointment.

6.3.4.31.2.8 <performer>

For encounters in EVN mood, at least one performer should be present that identifies the provider of the service given during the encounter. More than one performer may be present. The <time> element should be used to indicate the duration of the participation of the performer when it is substantially different from that of the effectiveTime of the encounter. In ARQ mood, the performer may be present to indicate a preference for a specific provider. In APT mood, the performer may be present to indicate which provider is scheduled to perform the service.

6.3.4.31.2.9 <participant typeCode='LOC'> <participantRole classCode='SDLOC'>

A <participant> element with typeCode='LOC' may be present to provide information about the location where the encounter is to be or was performed. This element shall have a <participantRole> element with classCode='SDLOC' that describes the service delivery location.

6.3.4.31.2.10 <id/>

The <id> element may be present to identify the service delivery location.

6.3.4.31.2.11 <code/>

The <code> element may be present to classify the service delivery location.

6.3.4.31.2.12 <addr>...</addr>

The <addr> element should be present, and gives the address of the location.

6.3.4.31.2.13 <telecom value='' use=''/>

The <telecom> element should be present, and gives the telephone number of the location.

6.3.4.31.2.14 <playingEntity classCode='PLC'> <name>...</name> </playingEntity>

The <playingEntity> shall be present, and gives the name of the location in the required <name> element.

Add Section 6.3.4.32

6.3.4.32 Update Entry 1.3.6.1.4.1.19376.1.5.3.1.4.16

The update entry shall contain references to the entries or sections which are being replaced or updated. This reference shall not be present when the update entry is adding a new entries or sections.

Entries and sections can be added, updated, or removed from a PHR. An update entry indicates the entry in the original PHR Extract that should be replaced or updated with new information contained within the entry. Only one organizer of this type is allowed in a section, and if present, it must be the first entry in the section.

6.3.4.32.1 Specification

```
<entry>
  <organizer classCode='BATTERY' moodCode='EVN'>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.16'/>
    <reference typeCode='RPLC'>
      <externalAct classCode='ACT' moodCode='EVN'>
        <id root='' extension=''/>
      </externalAct>
    </reference>
  </organizer>
</entry>
```

<templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.16'/>

This templateId indicates that the organizer is used to update a PHR Extract.

<reference typeCode='RPLC'>

A reference element shall be present with typeCode RPLC. The reference element lists the acts that are affected by the update. It indicates that any referenced act is being replaced with new information. This element must be present, and may be repeated to replace more than one act at a time.

<externalAct classCode='ACT' moodCode='EVN'>

This element must appear as shown above. It indicates that the reference is to an external act (a section or entry contained in the parent document).

<id root=' ' extension=' '/>

This element identifies the information being replaced or updated. The identifer is of the entry or section being replaced. If the identifier is to a section being replaced, only one reference element is permitted.

Add Section 6.3.4.33

6.3.4.33 Procedure Entry 1.3.6.1.4.1.19376.1.5.3.1.4.19

The procedure entry is used to record procedures that have occured, or which are planned for in the future.

6.3.4.33.1 Standards

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6.3.4.33.2 Specification

```
<procedure classCode='PROC' moodCode='EVN|INT'>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.19'/>
  <templateId root='2.16.840.1.113883.10.20.1.29'/><!-- see text of section 0 -->
  <templateId root='2.16.840.1.113883.10.20.1.25'/><!-- see text of section 0 -->
  <id root='' extension=''/>
  <code code='' codeSystem='2.16.840.1.113883.5.4' codeSystemName='ActCode' />
  <text><reference value='#xxx'/></text>
  <statusCode code='completed|active|aborted|cancelled'/>
  <effectiveTime>
    <low value=''/>
    <high value=''/>
  </effectiveTime>
  <priorityCode code=''/>
  <approachSiteCode code='' displayName='' codeSystem='' codeSystemName=''/>
  <targetSiteCode code='' displayName='' codeSystem='' codeSystemName=''/>
  <author />
  <informant />
  <entryRelationship typeCode='COMP' inversionInd='true'>
    <act classCode='ACT' moodCode=''>
      <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.4.1'/>
      <id root='' extension=''/>
    </act>
  </entryRelationship>
  <entryRelationship typeCode='RSON'>
    <act classCode='ACT' moodCode='EVN'>
      <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.4.1'/>
      <id root='' extension=''/>
    </act>
  </entryRelationship>
</procedure>
```

6.3.4.33.2.1 <procedure classCode='PROC' moodCode='EVN|INT'>

This element is a procedure. The classCode shall be 'PROC'. The moodCode may be INT to indicated a planned procedure or EVN, to describe a procedure that has already occurred.

6.3.4.33.2 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.19'/>

The templateId indicates that this <procedure> entry conforms to the constraints of this content module. NOTE: When the procedure is in event mood (moodCode='EVN'), this entry conforms to the CCD template 2.16.840.1.113883.10.20.1.29, and when in intent mood, this entry conforms to the CCD template 2.16.840.1.113883.10.20.1.25.

6.3.4.33.3 <id root='' extension=''/>

This required element shall contain an identifier for the procedure. More than one procedure identifier may be present.

6.3.4.33.4 <code code='' displayName='' codeSystem='' codeSystemName='' />

This element shall be present, and should contain a code describing the type of procedure.

6.3.4.33.5 <text><reference value='#xxx'/></text>

The <text> element shall contain a reference to the narrative text describing the procedure.

6.3.4.33.6 <statusCode code='completed|active|aborted|cancelled'/>

The <statusCode> element shall be present when used to describe a procedure event. It shall have the value 'completed' for procedures that have been completed, and 'active' for procedures that are still in progress. Procedures that were stopped prior to completion shall use the value 'aborted', and procedures that were cancelled before being started shall use the value 'cancelled'.

6.3.4.33.7 <effectiveTime><low value=''/><high value=''/></effectiveTime>

This element should be present, and records the time at which the procedure occurred (in EVN mood), or the desired time of the procedure in INT mood.

6.3.4.33.8 <priorityCode code=''/>

This element shall be present in INT mood when effectiveTime is not provided, it may be present in other moods. It indicates the priority of the procedure.

6.3.4.33.9 <approachSiteCode code='' displayName='' codeSystem='' codeSystemName=''/>

This element may be present to indicate the procedure approach.

6.3.4.33.10 <targetSiteCode code='' displayName='' codeSystem='' codeSystemName=''/>

This element may be present to indicate the target site of the procedure.

6.3.4.33.11 <entryRelationship typeCode='COMP' inversionInd='true'>

This element may be present to point the encounter in which the procedure was performed, and shall contain an internal reference to the encounter. See Internal References for more details.

6.3.4.33.12 <entryRelationship typeCode='RSON'>

A <procedure> act may indicate one or more reasons for the procedure. These reasons identify the concern that was the reason for the proceddure via an Internal Reference to the concern. The extension and root of each observation present must match the identifier of a concern entry contained elsewhere within the CDA document.

Add Section 6.3.4.34

6.3.4.34 Transport 1.3.6.1.4.1.19376.1.5.3.1.1.10.4.1

A transport entry indicates the intended or actual mode of transport and time of departure and/or arrival of the patient.

6.3.4.34.1 Specification

```
<entry>
 <act classCode='ACT' moodCode='INT|EVN'>
   <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.10.4.1'/>
   <id root='' extension=''/>
   <code code='' displayName=''
         codeSystem='2.16.840.1.113883.6.102.4.2'
         codeSystemName='DEEDS4.02'>
     <originalText><reference value='#(ID of text coded)/></orginalText>
   </code>
   <text><reference value='#text/></text>
     <high value=/>
   </effectiveTime>
 </act>
</entry>
```

6.3.4.34.1.1 <act classCode='ACT' moodCode='INT|EVN'>

This element indicates that the entry is an act (of transporting the patient, as indicated by the code below). This entry records the mode, and intended or actual ending time of transportation. In intent mood (moodCode='INT') this is how the estimated time of departure or arrival is indicated. In event mood (moodCode='EVN') this is how the actual departure or arrival of the patient is recorded.

6.3.4.34.1.2 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.10.4.1'/>

The <templateId> element identifies this <act> as about the tranportation of the patient. The templateId must have root='1.3.6.1.4.1.19376.1.5.3.1.1.10.4.1'.

6.3.4.34.1.3 <id root='' extension=''/>

The entry must have an identifier.

6.3.4.34.1.4 <code code='' displayName='' codeSystem='2.16.840.1.113883.6.102.4.2' codeSystemName='DEEDS4.02'>

The code describes the intented mode of transport. For transport between facilities, IHE recommends the use of a code system based on the DEEDS Mode of Transportation data element value set. However, the vocabulary used within an affinity domain should be determined by a policy agreement within the domain.

6.3.4.34.1.5 <originalText><reference value='#xxx'/><orginalText>

This is a reference to the narrative text within the section that describes the mode of transportation.

6.3.4.34.1.6 <text><reference value='#text/></text>

This is a reference to the narrative text cooresponding to the transport act.

6.3.4.34.1.7 <effectiveTime>

The effectiveTime element shall be sent. It records the interval of time over which transport occurs.

6.3.4.34.1.8 <low value=''/>

This element records the time of departure. This element shall be sent using the TS data type, as shown above.

6.3.4.34.1.9 <high value=''/>

This element records the time of arrival. If unknown, it must be recorded using a flavor of null. This element shall be sent using the TS data type as shown above.

Add Section 6.3.4.35

6.3.4.35 Encounter Disposition 1.3.6.1.4.1.19376.1.5.3.1.1.10.4.2

This element records the intended or actual disposition for the patient (e.g., admit, discharge home after treatment, et cetera).

6.3.4.35.1 Specification

```
<act classCode='ACT' moodCode='INT|EVN'>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.10.4.2'/>
  <id root='' extension=''/>
  <code code='' displayName='' codeSystem='' codeSystemName='' />
  <text><reference value='#xxx'/></text>
  <statusCode code='normal|completed'/>
  <effectiveTime value=''/>
  <performer typeCode='PRF'>
    <assignedEntity>
      <id root='' extension=''/>
      <addr></addr>
      <telecom value='' use=''/>
      <assignedPerson>
        <name></name>
      </assignedPerson>
    </assignedEntity>
  </performer>
  <participant typeCode='RCV'>
    <time value=''/>
    <participantRole classCode='ROL'>
      <id root='' extension=''/>
      <addr></addr>
      <telecom value='' use=''/>
      <playingEntity>
        <name></name>
      </playingEntity>
    </participantRole>
  </participant>
  <entryRelationship typeCode='COMP'>
    <act classCode='ACT'>
      <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.10.4.1'/>
       :
    </act>
  </entryRelationship>
</act>
```

6.3.4.35.1.1 <act classCode='ACT' moodCode='INT|EVN'>

The disposition is recorded in an act element, to describe the disposition action taken during the encounter[1] . In intent mood (moodCode='INT'), this records the expected disposition of the patient. In event mood (moodCode='EVN'), this records the actual disposition.

[1] The HL7 RIM allows this portion of the encounter to be recorded in the dischargeDispositionCode RIM Attribute of the Encounter class, but the Encounter class is constrained within CDA. To record the disposition act therefore requires the use of the Act class.

6.3.4.35.1.2 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.10.4.2'/>

The templateId indicates that this <encounter> entry conforms to the constraints of this content module.

6.3.4.35.1.3 <id root='' extension=''/>

This required element shall contain an identifier.

6.3.4.35.1.4 <code code='' displayName='' codeSystem='' codeSystemName='' />

This required element indicates the disposition of the patient. The code shall come from a coding system that is able to record common patient dispositions (e.g., Discharged, Transferred,

Admitted). The "Administrative Procedure" concept (14734007) of SNOMED CT contains several code values that cover a wide variety of dispositions routinely recorded. Other vocabularies that are commonly in use to describe discharge disposition codes are DEEDS (See section 8.02), and in the US, the Uniform National Billing Code.

6.3.4.35.1.5 <text><reference value='#xxx'/></text>

The <text> element shall contain a reference to the narrative text describing the disposition of the patient. <statusCode code='normal|completed'/> When the disposition act has occurred (moodCode='EVN'), the statusCode element shall be present, and shall contain the value 'completed'. When the disposition act is intended (moodCode='EVN') the statusCode element shall contain the value 'normal'.

6.3.4.35.1.6 <effectiveTime><low value=''/><high value=''/><effectiveTime/>

When the disposition has occurred, this element shall be sent, and indicates the effective time for the disposition process. This element may be sent to record when the disposition act is intended to occur. The <low> element records the time at which the disposition process was started. The <high> value records the time at which the disposition process was completed.

6.3.4.35.1.7 <performer typeCode='PRF'>

The <performer> element provides information about the person that performs the discharge, admission or transfer of the patient. When the disposition is in intent mood, this element describes any expectations with respect to the performer, and is optional. When the disposition is in event mood, this element is required.

6.3.4.35.1.8 <assignedEntity>

The <assignedEntity> element identifies the performer of the disposition.

6.3.4.35.1.9 <id root='' extension=''/>

The <id> element shall be sent when the disponsition has occurred, and identifies the performer of the act.

6.3.4.35.1.10 <addr></addr>

The <addr> element may be sent to provide a contact postal address for the performer of the disposition.

6.3.4.35.1.11 <telecom value='' use=''/>

The <telecom> element may be sent to provide a contact postal address for the performer of the disposition.

6.3.4.35.1.12 <assignedPerson><name/></assignedPerson>

The <assignedPerson> element shall be sent to identify the person who performed the disposition of the patient.

6.3.4.35.1.13 <participant typeCode='RCV'> <time value=''/> <participantRole classCode='ROL'> <id root='' extension=''/> <addr></addr> <telecom value='' use=''/> <playingEntity><name/></playingEntity>

This element identifies the person or organization that is receiving the patient. ===== <entryRelationship typeCode='COMP'> <act classCode='ACT'> <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.10.4.1'/> If the disposition of the patient requires transport to another location, this information shall be recorded in a subordinate act that conforms to the Transport template described above.

Add Section 6.3.4.36

6.3.4.36 Coverage Entry 1.3.6.1.4.1.19376.1.5.3.1.4.17

Payers shall be recorded as described in CCD: 3.1.2.1.2.

6.3.4.36.1 Standards

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6.3.4.36.2 Specification

Coverage Entry Example

```
<act classCode='ACT' moodCode='DEF'>
  <templateId root='2.16.840.1.113883.10.20.1.20'/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.17'/>
  <id root='' extension='' />
  <code code='35525-4' displayName='FINANCING AND INSURANCE'
    codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
  <statusCode code='completed'/>
  <entryRelationship typeCode='COMP'>
    <sequenceNumber value=''/>
      :
  </entryRelationship>
</act>
```

<act classCode='ACT' moodCode='DEF'>

Coverage shall be recorded in an <act> that groups all patient coverage together, and defines (moodCode='DEF') the payers.

<templateId root='2.16.840.1.113883.10.20.1.20'/>

<templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.17'/>

The <act> conforms to CCD: 3.1.2.1.1 as well as this specification. This shall be reflected by including the <templateId> elements shown above.

<id root=' ' extension=' '/>

The <id> element shall be present.

<code code='35525-4' displayName='FINANCING AND INSURANCE' codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>

The <code> element shall be recorded exactly as shown above.

<statusCode code='completed'/>

The <statusCode> element shall be present exactly as shown above.

<entryRelationship typeCode='COMP'>

The coverage <act> shall have one or more <entryRelationship> elements. These elements define the coverage. The entry relationships must contain Payer Entries.

<sequenceNumber value=' '/>

The <sequenceNumber> element may be present. If present, it shall contain a value attribute that indicates the priority of the payment source.

Add Section 6.3.4.37

6.3.4.37 Payer Entry 1.3.6.1.4.1.19376.1.5.3.1.4.18

The payer entry allows information about the patient's sources of payment to be recorded.

6.3.4.37.1 Standards

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6.3.4.37.2 Specification

Payer Entry Example

```
<act classCode='ACT' moodCode='EVN'>
  <templateId root='2.16.840.1.113883.10.20.1.26'/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.18'/>
  <id root='' extension=''/>
  <code code='' displayName='' codeSystem='' codeSystemName=''/>
  <statusCode code='completed'/>
  <performer typeCode='PRF'><!-- payer -->
    <assignedEntity classCode='ASSIGNED'>
      <id root='' extension=''/>
      <code code='PAYOR|GUAR|PAT' displayName=''
        codeSystem='2.16.840.1.113883.5.110' codeSystemName='RoleClass'/>
      <addr></addr>
      <telecom value='' use=''/>
      <representedOrganization typeCode='ORG'>
        <name></name>
      </representedOrganization>
    </assignedEntity>
  </performer>
  <participant typeCode='COV'><!-- member -->
    <participantRole classCode='PAT'>
      <id root='' extension=''/>
      <code code='' displayName=''
        codeSystem='2.16.840.1.113883.5.111' codeSystemName='RoleCode'/>
      <addr></addr>
      <telecom value='' use=''/>
      <playingEntity><name></name></playingEntity>
    </participantRole>
  </participant>
  <participant typeCode='HLD'><!-- subscriber -->
    <participantRole classCode='PAT'>
      <id root='' extension=''/>
      <playingEntity><name></name></playingEntity>
    </participantRole>
  </participant>
  <entryRelationship typeCode='REFR'>
    <act classCode='ACT' moodCode='DEF'>
      <id root='' extension=''/>
      <code code='' displayName='' codeSystem='' codeSystemName=''/>
      <text><reference value=''/></text>
    </act>
  </entryRelationship>
</act>
```

<act classCode='ACT' moodCode='EVN'>

The policy entry <act> describes the policy or program that has agreed to pay (moodCode='EVN') for the patient's treatment.

<templateId root='2.16.840.1.113883.10.20.1.26'/>

<templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.18'/>

The <act> conforms to CCD: 3.1.2.1.2 and this guide. This shall be reflected by including the <templateId> elements shown above.

<id root=' ' extension=' '/>

The <act> shall contain at least one <id> element that represents the policy or group number of the coverage. That identifier shall appear in the extension attribute.

<code code=' ' displayName=' '

codeSystem=' ' codeSystemName=' '/>

The <code> element should be present, and represents the type of coverage provided by the payer. Potential vocabularies to use include:

Table 6.3.4.37.2-1 Payer Type Vocabularies

Vocabulary	Description	OID
HL7 ActCoverageType	The HL7 ActCoverageType vocabulary describes payers and programs. Note that HL7 does not have a specific code to identify an individual payer, e.g., in the role of a guarantor or patient.	2.16.840.1.113883.5.4
X12 Data Element 1336	The X12N 271 implementation guide includes various types of payers. This code set does include a code to identify individual payers.	2.16.840.1.113883.6.255.1336

<statusCode code='completed'/>

The <statusCode> element shall be present, and should be recorded exactly as shown above.

<performer typeCode='PRF'>

<assignedEntity classCode='ASSIGNED'>

The <performer> element shall be present to represent the payer of the coverage.

<id root=' ' extension=' '/>

The identity of the performer should be recorded in the <id> element.

<code code='PAYOR|GUAR|PAT' displayName=' '

codeSystem='2.16.840.1.113883.5.110'

codeSystemName='RoleClass'/>

The <code> element describes the role of the payer. It shall contain one of the values listed in the table below.

Payer Role Codes

Coding System	OID
ISBT 128	2.16.840.1.113883.6.18
SNOMED CT	2.16.840.1.113883.6.96

<addr></addr>

The <addr> element shall be used to record the address of the payer. This information will usually come from the back of an insurance card.

<telecom value=' ' use=' '/>

The <telecom> element shall be used to record the phone number of the payer. This information will usually come from the back of an insurance card.

<representedOrganization typeCode='ORG'>

<name></name>

The name of the payer organization shall be provided in the <name> element contained within the <representedOrganization> element.

<participant typeCode='COV'>

<participantRole classCode='PAT'>

Information about the patient with respect to the policy or program shall be recorded in the <participantRole> element shown above. This element shall be present when the patient is a member of a policy or program.

<id root=' ' extension=' '/>

The <id> element should contain the identifier of the patient with respect to the payer (the subscriber or member id).

<code code= displayName= codeSystem='2.16.840.1.113883.5.111' codeSystemName='RoleCode'/>

The <code> element shall indicate the covered parties relationship to the subscriber, and should come from the HL7 CoverageRoleType value set.

<addr></addr>

The <addr> element should be used to record the address of the patient as known to the payer when different from that recorded in the <patientRole> element.

<telecom value=' ' use=' '/>

The <telecom> element should be used to record the phone number of the patient when different from that recorded in the <patientRole> element.

<playingEntity><name></name></playingEntity>

The <name> element should be used to record the member name when it is different from that recorded in the <patient> element.

<participant typeCode='HLD'>

<participantRole classCode='IND'>

Information about subscriber to the policy or program shall be recorded in the <participantRole> element shown above. This element shall be present when the subscriber is different from the patient.

<id root=' ' extension=' '/>

The <id> element shall contain the identifier of the subscriber when the subscriber is not the patient.

<addr></addr>

The <addr> element shall be used to record the address of the subscriber when the subscriber is not the patient.

<telecom value=' ' use=' '/>

The <telecom> element shall be used to record the phone number of the subscriber when the subscriber is not the patient.

<playingEntity><name></name></playingEntity>

The name of the subscriber shall be recorded in the <name> element of the <playingEntity>.

<entryRelationship typeCode='REFR'>

<act classCode='ACT' moodCode='DEF'>

The plan information may be provided in the elements described above.

<id root=' ' extension=' '/>

The health plan identifier is recorded in the <id> element.

<text><reference value=' '/></text>

This <reference> element shown above should be present and the value attribute should point to the name of the plan contained in the narrative of the document.

Add Section 6.3.4.38

6.3.4.38 Pain Score Observation 1.3.6.1.4.1.19376.1.5.3.1.1.12.3.1

The pain score observation is a Simple Observation that records the patient's assessment of their pain on a scale from 0 to 10.

6.3.4.38.1 Parent Template

The parent of this template is Simple Observation.

6.3.4.38.2 Specification

```
<observation typeCode='OBS' moodCode='EVN'>
 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
 <templateId root=1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
 <id root=' ' extension=' '/>
 <code code='38208-5|38221-8|38214-3' codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'>
   <translation code='406127006' displayName='Pain intensity'
     codeSystem='2.16.840.1.113883.6.96' codeSystemName='SNOMED CT'/>
 </code>
 <text><reference value='#xxx'/></text>
 <statusCode code='completed'/>
 <effectiveTime value=' '/>
 <repeatNumber value=' '/>
 <value xsi:type='CO|REAL' />
 <interpretationCode code= codeSystem='2.16.840.1.113883.6.96' codeSystemName='SNOMED CT'/>
 <methodCode code=' ' codeSystem=' ' codeSystemName=' '/>
 <targetSiteCode code=' ' codeSystem=' ' codeSystemName=' '/>
</observation>
```

6.3.4.38.3 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>

The <templateId> identifies this as a Pain Score Observation, and shall be present as shown above.

6.3.4.38.4 <code code='38208 5' codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'> <translation code='406127006' displayName='Pain intensity' codeSystem='2.16.840.1.113883.6.96' codeSystemName='SNOMED CT'/>

The <code> element indicates what kind of pain observation was made. It shall contain the code and codeSystem attribute values shown above. The <translation> element may be present, and provides a mapping to SNOMED CT of the observation. If present, is shall have the code and codeSystem attribute values shown above.

Code	Data Type	Description
38208-5	CO	A Pain Score made using the Numerical Rating Scale (NRS), where pain is assessed on a scale from 0 to 10. -->>The code system to use for this observation<<--

6.3.4.38.5 <value xsi:type='CO' value=' ' />

The <value> element records the assessed pain score. If using the NRS the pain is assessed using coded ordinal values that range from 0 to 10. The use of the coded ordinal type is required because while pain assessments are ordered values, and can be compared, the differences between two pain assessment values cannot be compared, and so these values are not really numbers.

6.3.4.38.6<interpretationCode code='301379001|40196000|76948002|67849003' codeSystem='2.16.840.1.113883.6.96' codeSystemName='SNOMED CT'/>

The <interpretationCode> element should be present to provide an interpretation of the pain scale assessment using SNOMED CT. When the <interpretationCode> element is present, the <translation> element described above shall be present. These interpretations are provided to assist decision support systems that are making secondary use of the assessment information, and are not intended to replace the score values.

Pain Score Range	Code	Description
0	301379001	No Present Pain
1-3	40196000	Mild Pain
4-6	50415004	Moderate Pain
7-9	76948002	Severe Pain
10	67849003	Excruciating Pain

6.3.4.38.7 ~~<methodCode code=' ' codeSystem=' ' codeSystemName=' '/>~~

The <methodCode> should not be present in a Pain Score Observation, as the method is implied by the <code> element.

6.3.4.38.8 <targetSiteCode code=' ' codeSystem=' ' codeSystemName=' '/>

The <targetSiteCode> element should be present, and shall indicate the location of the pain being assessed.

Add Section 6.3.4.39

6.3.4.39 Braden Score Observation 1.3.6.1.4.1.19376.1.5.3.1.1.12.3.2

Add Section 6.3.4.40

6.3.4.40 Braden Score Component 1.3.6.1.4.1.19376.1.5.3.1.1.12.3.3

Add Section 6.3.4.41

6.3.4.41 Geriatric Depression Score Observation 1.3.6.1.4.1.19376.1.5.3.1.1.12.3.4

Add Section 6.3.4.42

6.3.4.42 Geriatric Depression Score Component 1.3.6.1.4.1.19376.1.5.3.1.1.12.3.5

Add Section 6.3.4.43

6.3.4.43 Survey Panel 1.3.6.1.4.1.19376.1.5.3.1.1.12.3.7

Add Section 6.3.4.44

6.3.4.44 Survey Observation 1.3.6.1.4.1.19376.1.5.3.1.1.12.3.6

Add Section 6.3.4.L 45

6.3.4.45 Acuity 1.3.6.1.4.1.19376.1.5.3.1.1.13.3.1

A acuity entry indicates the triage acuity entry and the triage time of the patient.

6.3.4.45.1 Specification

```
<entry>
  <!-- Acuity Event  -->
  <observation classCode='OBS' moodCode='EVN'>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.3.1'/>
    <id root='' extension=''/>
    <code code='' displayName=''
          <code code='273887006' displayName='Triage index'
           codeSystem='2.16.840.1.113883.6.96'
           codeSystemName='SNOMED CT'/> <!-- Triage index (assessment scale) FullySpecifiedName -
->
      <originalText><reference value='#(ID of text coded)/></orginalText>
    </code>
    <text><reference value='#text/></text>
    <!-- effectiveTime
    <effectiveTime>
      <low value=''/> <!-- start of triage, may be sent -->
      <high value=''/><!-- end of triage should be sent -->
    </effectiveTime>
  </observation>
</entry>
```

6.3.4.45.1.1 <observation classCode='OBS' moodCode='EVN'>

This element indicates that the entry is an observation regarding the event of triage assessment. This entry records the observation and the time of the observation.

6.3.4.45.1.2 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.3.1'/>

The <templateId> element identifies this <act> as about Acuity Assessment of the patient. The templateId must have root='1.3.6.1.4.1.19376.1.5.3.1.1.13.3.1'.

6.3.4.45.1.3 <id root='' extension=''/>

The entry must have an identifier.

6.3.4.45.1.4 <code code='' displayName='' codeSystem='2.16.840.1.113883.6.96' codeSystemName='SNOMED CT'>

The code describes the triage acuity scale. IHE recommends the use the Emergency Severity Index (ESI). However, the vocabulary used within an affinity domain may be determined by a policy agreement within the domain.

6.3.4.45.1.5 <originalText><reference value='#xxx'/><orginalText>

This is a reference to the narrative text within the section that describes the acuity description.

6.3.4.45.1.6 <text><reference value='#text/></text>

This is a reference to the narrative text corresponding to the Observation act.

6.3.4.45.1.7 <effectiveTime>

The effectiveTime element shall be sent. It records the interval of time over which triage occurs. The use case for this information requires that the ending time of triage be recorded. However, the <low value=''> element may be sent by systems that capture the beginning and end of the triage process.

6.3.4.45.1.8 <high value=''/>

This element records the time of completion of triage, and is required. If unknown, it must be recorded using a flavor of null. This element may be sent using the TS data type, as shown above. If there is uncertainty about the time of completion of triage, the sender may record the time using the IVL_TS data type, as shown below.

```
<high xsi:type='IVL_TS'>
  <low value=''/>
  <high value=''/>
</high>
```

Add Section 6.3.4.46

6.3.4.46 Intravenous Fluids 1.3.6.1.4.1.19376.1.5.3.1.1.13.3.2

This content module describes the general structure for intravenous fluids. All intravenous fluid administration acts should be derived from this content module.

6.3.4.46.1 Specification

```
<substanceAdministration classCode='SBADM' moodCode='INT|EVN'>
  <templateId root='2.16.840.1.113883.10.20.1.24'/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.7'/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.7.1'/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.3.2'/>
  <id root='' extension=''/>
  <code code='' codeSystem='' displayName='' codeSystemName=''/>
  <text><reference value='#med-1'/></text>
  <statusCode code='completed|active'/>
  <effectiveTime xsi:type='IVL_TS'>
      <low value=''/>
      <high value=''/>
  </effectiveTime>
  <effectiveTime operator='A' xsi:type='TS|PIVL_TS|EIVL_TS|PIVL_PPD_TS|SXPR_TS'>
   :
  </effectiveTime>
  <routeCode code='' codeSystem='' displayName='' codeSystemName=''/>
  <doseQuantity value='' unit=''/>
  <approachSiteCode code='' codeSystem='' displayName='' codeSystemName=''/>
  <rateQuantity value='' unit=''/>
  <consumable>
   :
    .
  </consumable>
  <!-- 0..* entries describing the components -->
  <entryRelationship typeCode='COMP' >
      <sequenceNumber value=''/>
  </entryRelationship>
  <!-- An optional entry relationship that indicates the the reason for use -->
  <entryRelationship typeCode='RSON'>
    <act classCode='ACT' moodCode='EVN'>
      <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.4.1'/>
      <id root='' extension=''/>
    </act>
  </entryRelationship>
  <!-- An optional entry relationship that provides prescription activity -->
  <entryRelationship typeCode='REFR'>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.7.3'/>
     :
      .
  </entryRelationship>
  <precondition>
    <criterion>
      <text><reference value=''/></text>
    </criterion>
  </precondition>
</substanceAdministration>
```

This content module is derived from the Medication content module to specifically and more easily describe the necessary details of intravenous fluid administration. For the purpose of EDER and other profiles employing this content module, the table below identifies and describes the fields and constraints on whether or not they are required to be sent. The fields are listed in the order that they appear in the CDA XML content.

6.3.4.46.1.1 Medication Fields

Field	Opt.	CDA Tag	Description
Start and Stop Date	R2	<effectiveTime>	The date and time when the fluid regimen began and is expected to finish. The first component of the <effectiveTime> encodes the lower and upper bounds over which the <substanceAdministration> occurs, and the start time is determined from the lower bound. If the fluid has been known to be stopped, the high value

			must be present, but expressed as a flavor of null (e.g., Unknown).
Dose	R2	<doseQuantity>	The amount of fluid given. This should be in some known and measurable fluid unit, such as milliliters, or may be measured in "administration" units (such "units" of blood or "packs" of platelets).
Site	O	<approachSiteCode>	The site where the fluid is administered (i.e. "Left Antecubital", or "Central Line").
Rate	R2	<rateQuantity>	The rate is a measurement of how fast the fluid is given to the patient over time (e.g., .5 liter / 1 hr).
Product	R	<consumable> <name> </consumable>	The name of the substance or product. This should be sufficient for a provider to identify the type of fluid. It may be a trade name (Plasmalyte®)or a generic name. This information is required in all fluid entries. The name should not include packaging, strength or dosing information.
Code	R2	<consumable> <code/> </consumable>	A code describing the product from a controlled vocabulary, such as RxNorm, First DataBank, et cetera.

6.3.4.46.1.2 <substanceAdministration classCode='SBADM' moodCode='INT|EVN'>

The general model is to record each fluid administered in a <substanceAdministration> intent (moodCode='INT'). Fluids that have been started but not completely administered should be recorded in a <substanceAdministration> intent (moodCode='INT'). Fluids that have been completed should be recorded as an event (moodCode='EVN').

6.3.4.46.1.3 <templateId root='2.16.840.1.113883.10.20.1.24'/> <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.7'/> <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.7.1' />

All intravenous fluid entries use the <templateId> elements specified above to indicate that they are IV fluid administration acts. This element is required.

6.3.4.46.1.4 <id root='' extension=''/>

The <substanceAdministration> element must be uniquely identified. If there is no explicit identifier for this observation in the source EMR system, a GUID may be used for the root attribute, and the extension may be omitted. Although HL7 allows for multiple identifiers, this profile requires that one and only one be used.

6.3.4.46.1.5 <code code='' displayName='' codeSystem='' codeSystemName=''>

The <code> element is required, and is used to supply a code that describes the act of fluid administration, not the fluid being administered. This may be a procedure code, such as those found in CPT-4 (and often used for billing), or may describe the method of administration, such as by intravenous injection.

6.3.4.46.1.6 <text><reference value=''/></text>

The URI given in the value attribute of the <reference> element points to an element in the narrative content that contains the complete text describing the fluid administration.

6.3.4.46.1.7 <statusCode code='completed|active'/>

The status of all <substanceAdministration> elements must be "completed" or "active". If "completed", then the administration has occurred, or the request or order has been placed. If "active", then at the time recorded, the fluid was still being administered.

6.3.4.1.46.8 <effectiveTime xsi:type='IVL_TS'>

The first <effectiveTime> element encodes the start and stop time of the administration. This an interval of time (xsi:type='IVL_TS'), and must be specified as shown. This is an additional constraint placed upon CDA Release 2.0 by this profile, and simplifies the exchange of start/stop and frequency information between EMR systems.

6.3.4.46.1.9 <low value=''/><high value=''/>

The <low> and <high> values of the first <effectiveTime> element represent the start and stop times for the fluid administration. The <low> value represents the start time, and the <high> value represents the stop time. If either the <low> or the <high> value is unknown, this shall be recorded by setting the nullFlavor attribute to UNK. The <high> value records the end of the fluid administration according to the information provided in the initial fluid order or RN documentation. For example, if the fluid order is for one liter, and the fluid is to be delivered at 250 mL/hr, then the high value should contain a datetime that is 4 hours later then the <low> value. The rationale is that a provider, seeing a discontinued fluid could normally assume that the fluid has been stopped, even if the intent of the treatment plan is to continue the fluid continuously.

6.3.4.46.1.10 <approachSiteCode code='' codeSystem=''> originalText><reference value=''/></originalText> </approachSiteCode>

The <approachSiteCode> element contains a URI in the value attribute of the <reference> that points to the text in the narrative identifying the site. It may be coded to a controlled vocabulary that lists such sites (e.g., SNOMED-CT).

6.3.4.46.1.11 <doseQuantity><low value='' unit=''/><high value='' unit=''/> </doseQuantity>

The dose is specified if the <doseQuantity> element. If a dose range is given (e.g., 125-250 mL/hr [i.e. to replace fluid losses]), then the <low> and <high> bounds are specified in their respective elements, otherwise both <low> and <high> have the same value. The unit attribute should be derived from the HL7 UnitsOfMeasureCaseSensitive vocabulary .

6.3.4.46.1.12 <low|high value=''> <translation> <originalText><reference value=''/></originalText> </translation></low|high >

Any <low> and <high> elements used for <doseQuantity> or <rateQuantity> should contain a <translation> element that provides a <reference> to the <originalText> found in the narrative body of the document .

6.3.4.46.1.13 <rateQuantity><low value='' unit=''/><high value='' unit=''/></rateQuantity>

The rate is specified in the <rateQuantity> element. The rate is given in units that have measure over time. In this case, the units should be specified as a string made up of a unit of measure (see doseQuantity above), followed by a slash (/), followed by a time unit (s, min, h or d) (i.e. mL/hr).

Again, if a range is given, then the <low> and <high> elements contain the lower and upper bound of the range, otherwise, they contain the same value.

6.3.4.46.1.14 <consumable>

The <consumable> element shall be present, and shall contain a <manufacturedProduct> entry conforming to the Product Entry template.

Add Section 6.3.4.47

6.3.4.47 Nursing Assessments Battery 1.3.6.1.4.1.19376.1.5.3.1.1.13.3.4

This entry describes a single row in the Nursing Assessment flowsheet. The single observation date/time and provider is applied to all other observations.

6.3.4.47.1 Specification


```
<entry>
  <organizer classCode='BATTERY' moodCode='EVN'>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.3.4'/>
    <id root=' ' extension=' '/>
    <code code='XX-ASSESS' displayName='Nursing Assessments Battery'
          codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <statusCode code='completed'/>
    <author>
       <time value=' '/>
       <assignedAuthor>
          <id root=' ' extension=' '/>
       </assignedAuthor>
    </author>
    <component>
       <observation classCode='OBS' moodCode='EVN'>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
         :
       </observation>
    </component>
    <component>
       <observation classCode='OBS' moodCode='EVN'>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
          :
       </observation>
    </component>
   :
  </organizer>
</entry>
```

6.3.4.47.1.1 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.3.4'/>

The <templateId> element specifies that this organizer entry conforms to the Nursing Interventions battery. The root attribute SHALL contain the value "1.3.6.1.4.1.19376.1.5.3.1.1.13.3.4"

6.3.4.47.1.2 <organizer classCode='BATTERY' moodCode='EVN'>

Each row in the Nursing Interventions battery SHALL be represented by an organizer with the classCode of 'BATTERY' and the moodCode of 'EVN'

6.3.4.47.1.3 <id root=' ' extension=' '/>

Each battery SHALL have a globally unique identifier.

6.3.4.47.1.4 <code code='X-ASSESS' codeSystem='2.16.840.1.113883.6.1'/>

The <code> element specifies the Loinc code that represents the content of the battery. The codeSystem attribute SHALL contain the value '2.16.840.1.113883.6.1'. The code attribute SHALL contain the value='X-ASSESS'. It is good practice to include displayName and codeSystemName for clarity and debugging. The corresponding values are 'Nursing Assessments battery' and 'LOINC' respectively.

6.3.4.47.1.5 <author/><time/><assignedAuthor><id/></assignedAuthor></author>

The <author> relation element points at the author that records the visit battery. This assignedAuthor may be different than the author of the document. The time element is used to record when the assigned author recorded the battery.

6.3.4.47.1.6 <statusCode code='completed'/>

The status code for all batteries SHALL be 'completed'

6.3.4.47.1.7 <component>

The battery is made of several component Simple Observations. The following table lists the allowable LOINC codes, displayNames, and observation types, and unit of measures for these observations.

LOINC Code	displayName	xsi:type	value set
9269-2	GLASGOW COMA CORE.TOTAL	CO	3..15
9268-4	GLASGOW COMA SCORE.MOTOR	CO	1..6
11454-6	LEVEL OF RESPONSIVENESS	CO	ALERT VERBAL RESPONSE PAINFUL RESPONSE UNRESPONSIVE
38208-5	PAIN SEVERITY	CO	0-10
48767-8	(COMMENT FIELD)	ED	

Add Section 6.3.4.48

6.3.4.48 Antenatal Testing and Surveillance Battery 1.3.6.1.4.1.19376.1.5.3.1.1.21.3.10

This entry describes a single row in the Antenatal Testing and Surveillance Section. The single observation date/time and provider is applied to all other observations.

6.3.4.48.1 Specification

```
<entry>
  <organizer classCode='BATTERY' moodCode='EVN'>
    <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.3.10'/>
    <id root=' ' extension=' '/>
    <code code='XX-ANTENATALTESTINGBATTERY' displayName='ANTENATAL TESTING AND SURVEILLANCE
BATTERY'
          codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
    <statusCode code='completed'/>
    <author>
       <time value=' '/>
       <assignedAuthor>
          <id root=' ' extension=' '/>
       </assignedAuthor>
    </author>
    <component>
       <observation classCode='OBS' moodCode='EVN'>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
         :
       </observation>
    </component>
    <component>
       <observation classCode='OBS' moodCode='EVN'>
          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.13'/>
          :
       </observation>
    </component>
   :
  </organizer>
</entry>
```

6.3.4.48.1.1 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.3.10'/>

The <templateId> element specifies that this organizer entry conforms to the Antenatal Testing and Surveillance Battery. The root attribute SHALL contain the value "1.3.6.1.4.1.19376.1.5.3.1.1.21.3.10"

6.3.4.48.1.2 <organizer classCode='BATTERY' moodCode='EVN'>

Each row in the Antenatal Testing and Surveillance Battery SHALL be represented by an organizer with the classCode of 'BATTERY' and the moodCode of 'EVN'

6.3.4.48.1.3 <id root=' ' extension=' '/>

Each battery SHALL have a globally unique identifier.

6.3.4.48.1.4 <code code='XX- XX-ANTENATALTESTINGBATTERY' codeSystem='2.16.840.1.113883.6.1'/>

The <code> element specifies the Loinc code that represents the content of the battery. The codeSystem attribute SHALL contain the value '2.16.840.1.113883.6.1'. The code attribute SHALL contain the value='XX-ANTENATALTESTINGBATTERY'. It is good practice to include displayName and codeSystemName for clarity and debugging. The corresponding values are 'ANTENATAL TESTING AND SURVEILLANCE BATTERY' and 'LOINC' respectively.

6.3.4.48.1.5 <author/><time/><assignedAuthor><id/></assignedAuthor></author>

The <author> relation element points at the author that records the visit battery. This assignedAuthor may be different than the author of the document. The time element is used to record when the assigned author recorded the battery.

6.3.4.48.1.6 <statusCode code='completed'/>

The status code for all batteries SHALL be 'completed'

6.3.4.48.1.7 <component>

The battery is made of several component Simple Observations. The following table lists the allowable LOINC codes, displayNames, and observation types, and unit of measures for these observations.

LOINC Code	displayName	xsi:type
11630-1	Biophysical profile.amniotic fluid volume	ED
11631-9	Biophysical profile.body movement	ED
11632-7	Biophysical profile.breathing movement	ED
11633-5	Biophysical profile.heart rate reactivity	ED
11635-0	Biophysical profile.tone	ED
11634-3	Biophysical profile.sum	ED

Add Section 6.3.4.49

6.3.4.49 Immunization Recommendation 1.3.6.1.4.1.19376.1.5.3.1.4.12.2

An immunization recommendation entry is used to record intended or proposed immunization activities. Proposed activities are suggestions for care or treatment that are used in decision making (these might appear as an input to, or output from clinical decision support). Intended activities describe the currently accepted plan, and are part of the care activities expected to occur for the patient.


```
<substanceAdministrationIntent typeCode='SBADM' moodCode='INT|PRP' negationInd='true|false'>
  <templateId root='2.16.840.1.113883.10.20.1.25'/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.12.2'/>
  <id root='' extension=''/>
  <code code='IMMUNIZ' codeSystem='2.16.840.1.113883.5.4' codeSystemName='ActCode'/>
  <text><reference value='#xxx'/></text>
  <statusCode code='completed'/>
  <effectiveTime><low value=''/><high value=''/></effectiveTime>
  <routeCode code='' codeSystem='' codeSystemName='RouteOfAdministration'/>
  <approachSiteCode code='' codeSystem='' codeSystemName='HumanSubstanceAdministrationSite'/>
  <doseQuantity value='' units=''/>
  <consumable typeCode='CSM'>
        :
        .
  </consumable>
  <!-- An optional entry relationship that identifies the immunization series number -->
  <entryRelationship typeCode='SUBJ'>
        <observation classCode='OBS' moodCode='EVN'>
               <templateId root='2.16.840.1.113883.10.20.1.46'/>
               <code code='30973-2' displayName='Dose Number'
                      codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
               <statusCode code='completed'/>
               <value xsi:type='INT' value=''/>
        </observation>
  </entryRelationship>
  <!-- Optional <entryRelationship> element containing comments -->

</substanceAdministrationIntent>
```

Note: The CCD represents the observation of a series number in EVN mood, as we have shown above. However, when the immunization is "intended" to be the second of a series, we do not believe this is the correct mood code. How should this be addressed?

6.3.4.49.1 <substanceAdministrationIntent typeCode='SBADM' moodCode='INT|PRP' negationInd='true|false'>

This entry represents the intent or proposal to administer (when negationInd = false), or not administer (when negationInd = true) an immunization to a patient.

6. 3.4.49.2 <templateId root='2.16.840.1.113883.10.20.1.25'/>

This element represents a plan of care activity for the patient, and so shall conform to the CCD Plan of Care activity template.

6. 3.4.49.3 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.12.2'/>

This element is an instance of an IHE PCC Immunization Recommendation entry, and shall indicate that conformance by inclusion of the template identifier given above.

6. 3.4.49.4 <id root='' extension=''/>

Each plan of care activity shall contain an identifier.

6. 3.4.49.5 <code code='IMMUNIZ' codeSystem='2.16.840.1.113883.5.4' codeSystemName='ActCode'/>

An immunization care plan entry shall include a code identifying that this is in reference to an immunization. If no coding system is required by the source, simply record as shown above. See PCC TF-2:6.1.4.17.5 for additional coding systems that may appear in this element.

6. 3.4.49.6 <text><reference value='#xxx'/></text>

In a CDA document, the URI given in the value attribute of the <reference> element points to an element in the narrative content that contains the complete text describing the immunization activity. In an HL7 message, the content of the text element shall contain the complete text describing the immunization activity.

6. 3.4.49.7 <statusCode code='active'/>

The status code shall be active for all active proposals or intentions.

6. 3.4.49.8 <effectiveTime><low value=''/><high value=''/></effectiveTime>

The **<effectiveTime>** element should be present to indicate time interval over which the suggested activity should take place. Intervals shall be represented using the IVL_TS data type.

6. 3.4.49.9 <routeCode code='' codeSystem='' codeSystemName='RouteOfAdministration'/> <approachSiteCode code='' codeSystem='' codeSystemName='HumanSubstanceAdministrationSite'/> <doseQuantity value='' units=''/>

The **<routeCode>**, **<approachSiteCode>** and **<doseQuantity>** elements are used to represent additional attributes of the proposed care. When present these elements must be consistent with the rules for these elements specified in PCC TF-2:6.1.4.16 Medication Entry and PCC TF-2:6.1.4.17 Immunization Entry.

6. 3.4.49.10 <consumable typeCode='CSM'>

The **<consumable>** element shall be present, and shall contain a **<manufacturedProduct>** entry conforming to the Product Entry template found in PCC TF-2:6.14.19.

6. 3.4.49.11 <entryRelationship typeCode='SUBJ'>

```
<observation classCode='OBS' moodCode='EVN'>
    <templateId root='2.16.840.1.113883.10.20.1.46'/>
    <code code='30973-2'
        displayName='Dose Number'
        codeSystem='2.16.840.1.113883.6.1'
        codeSystemName='LOINC'/>
    <statusCode code='completed'/>
    <value xsi:type='INT' value=''/>
</observation>
</entryRelationship>
```

The immunization plan of care entry may contain a single entry relationship identifying the immunization series number. This entry shall use the CCD template (2.16.840.1.113883.10.20.1.46) defined for that purpose.

6. 3.4.49.12 <!-- Optional <entryRelationship> element referencing guidelines -->

Add Section 6.3.4.50

6.3.4.50 Alert Entry 1.3.6.1.4.1.19376.1.5.3.1.4.12.3

The alert entry is an observation whose subject is any clinical statement. This entry provides additional information about a clinical statement that may be of relevance to the care being described. For example, some treatments may be contraindicated by other conditions or co-occurring treatment. For example, the use of aspirin and a blood thinning agent at the same time may not be recommended. The alert entry is provided to record these annotations. An example use of this entry is in a clinical decision support service that uses the alert entry to identify vaccinations that are considered to be of reduced effectiveness when making immunization recommendations for the patient. Another example of this use in a similar system would be to identify treatments that are contraindicated subsequent to an immunization.

```
<entryRelationship typeCode='SUBJ' inversionInd='true'>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.12.3'/>
  <observation classCode='ALRT|OBS' moodCode='EVN'>
        <id root='' id=''/>
        <code code='' displayName='' codeSystem='' codeSystemName=''/>
        <text><reference value='#ref-1'/></text>
  </observation>
</entryRelationship>
```

6.3.4.50.1 <entryRelationship typeCode='SUBJ' inversionInd='true'>

The alert has a preexisting entry as its subject (typeCode=SUBJ).

6. 3.4.50.2 <templateId root='TBD'/>

This alert complies with the rules specified in the PCC technical framework for alerts, and so must include the templateId specified above.

6. 3.4.50.3 <observation classCode='OBS|ALRT' moodCode='EVN'>

An alert is an observation that has occurred (moodCode=EVN). The HL7 classCode value of ALRT shall be used where permitted (e.g. in an HL7 Care Record message). Where not permitted, the classCode shall be OBS (e.g., in CDA Document).

6. 3.4.50.4 <id root='' extension=''/>

Each alert observation may have an identifier.

6. 3.4.50.5 <code code='' displayName='' codeSystem='2.16.840.1.113883.5.4' codeSystemName='ActDetectedIssueCode'/>

Each alert observation shall have a code identifying the type of issue detected. The HL7 ActDetectedIssueCode value set (2.16.840.1.113883.1.11.16124) is one possible source of codes for these issues.

6. 3.4.50.6 <text><reference value='#ref-1'/></text>

The text of the observation should provide some human readable explanation for the alert. In a CDA document, this would appear within the narrative of the clinical document, and so would be referenced by the alert. In an HL7 Version 3 message, this text would appear in the **<text>** element of the alert entry.

Add Section 6.3.4.51

6.3.4.51 Antigen Dose 1.3.6.1.4.1.19376.1.5.3.1.4.12.1

An Antigen Dose entry is used to record additional details about the patient's immunization history. These entries may be used to provide dose details about a specific antigen received during an Immunization.

6.3.4.51.1 Specification

```
<substanceAdministration typeCode='SBADM' moodCode='EVN' negationInd='false'>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.12.1'/>
  <id root='' extension=''/>
  <code code='IMMUNIZ' codeSystem='2.16.840.1.113883.5.4' codeSystemName='ActCode'/>
  <text><reference value='#xxx'/><text>
  <statusCode code='completed'/>
  <effectiveTime value=' '/>
  <routeCode code=' ' codeSystem=' ' codeSystemName='RouteOfAdministration'/>
  <approachSiteCode code=' ' codeSystem=' '
        codeSystemName='HumanSubstanceAdministrationSite'/>
  <doseQuantity value='' units=''/>
  <consumable typeCode='CSM'>
    <manufacturedProduct classCode='MANU'>
      <manufacturedLabeledDrug classCode='MMAT' determinerCode='KIND'>
        <code code='' codeSystem='' codeSystemName=''>
          <originalText><reference value='#yyy'/></originalText>
        </code>
      </manufacturedLabeledDrug>
    </manufacturedProduct>
  </consumable>
</substanceAdministration>
```

Figure 6.3.4.51.1-1 Immunizations Example

6. 3.4.51.2 <substanceAdministration typeCode='SBADM' moodCode='EVN' negationInd='false'>

An antigen dose entry is a substance administration event.

6. 3.4.51.3 <templateId root='1.3.6.1.4.1.19376.1.5.3.1.4.12.1'/>

The <templateId> element identifies this <substanceAdministration> as an antigen dose, allowing for validation of the content. The templateId must have root='1.3.6.1.4.1.19376.1.5.3.1.4.12.1'.

6. 3.4.51.4 <id root=' ' extension=' '/>

This shall be the identifier for the antigen dose event.

6. 3.4.51.5 ~~<code/><text/><statusCode/><effectiveTime value=' '/> <routeCode code=' ' codeSystem=' ' codeSystemName='RouteOfAdministration'/> <approachSiteCode code=' ' codeSystem=' ' codeSystemName='HumanSubstanceAdministrationSite'/>~~

Since the antigen dose entry is subordinate to an immunization entry, the code, text, status code, effective time, route and approach site would all be repetetive and are therefore not should not be present.

6. 3.4.51.6 <doseQuantity value=' ' units=' '/>

This element gives the dose quantity of the specific antigen.

6. 3.4.51.7 <consumable typeCode='CSM'>

The **`<consumable>`** element shall be present, and shall contain a **`<manufacturedProduct>`** entry conforming to the Product Entry template found in PCC TF-2:6.14.19. This product entry describes the antigen to which the dose is applied.

Add Section 6.4

6.3 HL7 Version 2.0 Content Modules

This section contains content modules based upon the HL7 Version 2 Standard, and related standards and/or implementation guides.

Add Section 6.5

6.4 PCC Value Sets

This section contains value sets used by Content Modules.

Add Section 6.5.A

6.5.A Antepartum History of Past Illness Value Set 1.3.6.1.4.1.19376.1.5.3.1.1.16.5.1

Name	Opt	Type	Units	SNOMED CT
Diabetes	R2	CD		73211009
Hypertension	R2	CD		38341003
Heart Disease	R2	CD		56265001
Autoimmune Disorder	R2	CD		85828009
Kidney Disease	R2	CD		90708001
UTI	R2	CD		68566005
Neurologic	R2	CD		118940003
Epilepsy	R2	CD		84757009
Psychiatric	R2	CD		74732009
Depression	R2	CD		41006004
Postpartum Depression	R2	CD		58703003
Hepatitis	R2	CD		128241005
Liver Disease	R2	CD		235856003
Varicosities	R2	CD		276504003
Phlebitis	R2	CD		61599003
Thyroid Dysfunction	R2	CD		14304000
Trauma	R2	CD		417746004
Violence	R2	CD		225818009
History of Blood Transfusion	R2	CD		116859006
D(Rh) Sensitized	R2	CD		3885002
Pulmonary	R2	CD		19829001
Seasonal Allergies	R2	CD		367498001
Drug Allergy	R2	CD		416098002

Name	Opt	Type	Units	SNOMED CT
Latex Allergy	R2	CD		300916003
Food Allergy	R2	CD		414285001
Breast	R2	CD		79604008
Hospitalizations	R2	CD		32485007
Anesthetic Complications	R2	CD		33211000
History of Abnormal Pap	R2	CD		274688009
Uterine Anomaly/DES	R2	CD		37849005
DES Exposure	R2	CD		413340008 of fetus
Infertility	R2	CD		8619003
Artificial Reproductive Therapy (ART) Treatment	R2	CD		63487001
History of Gestational Diabetes	R2	CD		SNOMED has Code. Lisa Nelson will send.
History of Incompetent Cervix	R2	CD		17382005 Code is for incompetent cervix rather than history of. Given this condition this should be okay.
History of Infant with Intrauterine Growth Restriction	R2	CD		Need Code for history of.
History of Infant with Macrosomia	R2	CD		Need Code for history of.
History of Pregnancy Induced Hypertension	R2	CD		Need code for history of.
History of Placenta Previa/Abruption	R2	CD		Need Code for history of.
History of Preterm labor	R2	CD		441493008

Name	Opt	Type	Units	SNOMED CT
History of Premature Rupture of Membranes	R2	CD		Need Code for history of.
Previous Cesarean Section	R2	CD		161805006
History of Stillbirth	R2	CD		161743003
History of Neonatal Death	R2	CD		Need code for history of.
History of Postpartum Hemorrhage	R2	CD		161809000

3660

Add Section 6.5.C

6.5.C Antepartum Family History and Genetic Screening Value Set 1.3.6.1.4.1.19376.1.5.3.1.1.16.5.4

3665

Name	Opt	Type	Units	SNOMED CT	LOINC
Autism	R2	CD		408856003	
Blood Disorders	R2	CD		414022008	
Canavan Disease	R2	CD		80544005	
Chromosomal Disorder Includes any inherited genetic or chromosomal disorders	R2	CD		409709004	
Congenital Heart Defect	R2	CD		13213009	
Cystic Fibrosis	R2	CD		190905008	
Dysmorphism (Birth Defect) Patient or baby's father has a child with birth defects	R2	CD		276720006	

Name	Opt	Type	Units	SNOMED CT	LOINC
Down Syndrome	R2	CD		41040004	
Familial Dysautonomia	R2	CD		29159009	
Hemophilia	R2	CD		90935002	
Huntington's Chorea	R2	CD		58756001	
Maternal Metabolic Disorder	R2	CD		75934005	
Mental Retardation	R2	CD		91138005	
Muscular Dystrophy	R2	CD		73297009	
Neural Tube Defect	R2	CD		253098009	
Recurrent pregnancy loss/stillbirth	R2	CD		102878001	
Sickle Cell Disease	R2	CD		417357006	
Sickle Cell Trait	R2	CD		16402000	
Tay-Sachs	R2	CD		111385000	
Thalassemia	R2	CD		40108008	

Add Section 6.5.D

6.5.D Antepartum Review of Systems Menstrual History Value Set 1.3.6.1.4.1.19376.1.5.3.1.1.16.5.5

Name	Opt	Type	Units	SNOMED CT	LOINC
Date of Last Menstrual Period	R	TS		21840007	
Menses Monthly	R	BL		364307006	
Prior Menses Date	R	TS		21840007	
Duration of Menstrual Flow ~~Frequency~~	R	PQ	days	364306002	
Frequency of Menstrual Cycles	R	PQ	days	289887006	

Name	Opt	Type	Units	SNOMED CT	LOINC
On Birth Control Pills at conception	R	BL		10036567	
Menarche	R	PQ		398700009	
hCG+	R	TS		250423000	

Add Section 6.5.E

3675

6.5.E Antepartum History of Infection Value Set 1.3.6.1.4.1.19376.1.5.3.1.1.16.5.6

Name	Opt	Type	Units	SNOMED CT	LOINC
Live with someone with TB or exposed to TB	R2	CD		170464005	
History of Genital Herpes	R2	CD		402888002	
Exposed to Genital Herpes	R2	CD		240480009	
Rash since LMP	R2	CD		49882001	
Viral illness since LMP	R2	CD		34014006	
Rash or viral illness since LMP	R2	CD		49882001	
Hepatitis B	R2	CD		235871004	
Hepatitis C	R2	CD		235872006	
History of STD	R2	CD		8098009	
History of Gonorrhea	R2	CD		15628003	
History of Chlamydia	R2	CD		312099009	
History of HPV	R2	CD		302812006	
History of HIV	R2	CD		165816005	
History of Syphilis	R2	CD		76272004	

3680

3685 ***Add Section 6.5.F***

6.5.F Antepartum Laboratory Value Set 1.3.6.1.4.1.19376.1.5.3.1.1.16.5.7

Lab	LOINC Code	Comments
Antibody Screen (AB)	890-4 Ab Screen	
Blood Type (ABO Group)	883-9 ABO Group	
Rh	10331-7 Rh	
Hepatitis B virus (HBV) surface Antigen (Ag)	5196-1 HBV surface Ag (EIA) 5195-3 HBV surface Ag 5197-9 HBV surface Ag (RIA) 7905-3 HBV surface Ag (Neut)	
Hemoglobin (Hgb)/Hematocrit (Hct)	718-7 Hgb 4544-3 Hct (Automated count) 30350-3 Hgb	
Hemoglobin (Hgb) Electrophoresis	13514-5 Hemoglobin pattern [interpretation] in Blood by Electrophoresis Narrative	Appropriate code appears to be 13514-5
Aneuploidy Screening (Ultrasound)	XX-ASU Aneuploidy Screening (Ultrasound)	XX-ASU: A LOINC profile code will be requested
Pap Test/Human papilloma virus (HPV)	21440-3 HPV I/H Risk DNA Cervix (Probe) 21441-1 HPV Low Risk DNA Cervix (Probe) 10524-7 Cytology Cervix 18500-9 Thin Prep Cervix 19765-7 Cytology Cervix/Vaginal (Nominal) 19766-5 Cytology Cervix/Vaginal (Narrative)	

Lab	LOINC Code	Comments
Rubella Virus (RUBV) Antibody (Ab)	5334-8 RUBV Ab IgG (EIA) 20458-6 RUBV Ab IgG 40667-8 RUBV Ab IgG (EIA) 8014-3 RUBV Ab IgG	
Urine Culture Screen	630-4 Bacteria Urine Culture	
Purified protein derivative (PPD)	1647-7 Purified protein derivative skin test	
Chlamydia	6347-9 Chlamydia Ag 14510-2 Chlamydia trachomatis Ag (Vaginal) 14474-1 Chlamydia trachomatis Ag (Urine) 6349-5 Chlamydia trachomatis (Unspecified specimen)	
Gonorrhea	691-6 Neisseria Gonorrhoeae (genital specimen) 9568-7 Neisseria Gonorrhoeaea Ab	
Chlamydia Trachomatis/ Neisseria Gonorrhoeae	45067-6 Chlamydia Trachomatis Neisseria Gonorrhoeae (Cervix) 45074-2 Chlamydia Trachomatis Neisseria Gonorrhoeae (Urine)	
Ultrasound	35096-7 OB Ultrasound Panel	
Alpha-Feto Protein (Maternal) (Profile)	30525-0 Age 29463-7 Body Weight 18185-9 Gestational Age 20450-3 Alpha-1-Fetoprotein 48803-1 Neural Tube Defect Risk	
Chorionic Villus Sampling (CVS)	33774-1 Karotype	
Amniotic Fluid (Karotype)	33773-3 Karyotype (Amino Fluid)	
Amniotic Fluid (AFP)	41273-4 Alpha-1-Fetoprotein, Amniotic Fluid Semi-Quantitative 1832-5 Alpha-1-Fetoprotein [Multiple of the median] in Amniotic Fluid 29595-6 Alpha-1-Fetoprotein [Mass/volume] in Amniotic Fluid	

Lab	LOINC Code	Comments
Diabetes Screen	1557-8 Fasting Blood Glucose-Venous 14770-2 Fasting Blood Glucose-Capillary	
Glucose Tolerance Test (GTT)	1507-3 Glucose 1HR post 75 g glucose 14995-5 Glucose 2HR post 75 g glucose 20437-0 Glucose 3HR post 75 g glucose	
Rapid Plasma Reagin (RPR)	31147-2 Reagin Ab 20508-8 Reagin Ab by RPR	
Venereal Disease Research Laboratory (VDRL)	5292-8 Reagin Ab by VDRL	
Group B Strep	48683-7 Beta Strep Group B (PCR) 11267-2 Strep Group B	
Beta Human Chorionic Gonadotropin (HCG)	21198-7 Beta HCG	
Varicella zoster virus Ab.IgG	15410-4 Varicella zoster virus Ab.IgG (EIA) 17763-4 Varicella zoster virus Ab.IgG (IF)	
Maternal Serum Triple Screen	30525-0 Age, Patient Quantitative 20450-3 Alpha-1-Fetoprotein Multiple of the Median, Serum Quantitative Calculated 20465-1 Choriogonadotropin/Choriogonatotropin, Control Serum Quantitative 20466-9 Estriol/Estriol, Control Serum Quantitative	

Lab	LOINC Code	Comments
Urinalysis (Urine Screen)	20406-5 Glucose 20505-4 Bilirubin 5797-6 Ketones 5811-5 Specific Gravity 5803-2 pH 5804-0 Protein 20405-7 Urobilinogen 20407-3 Nitrite 5794-3 Hemoglobin 5799-2 Leukocyte esterase 5767-9 Appearance 5778-6 Color 9842-6 Casts 5787-7 Epithelial cells 13945-1 Erythrocytes 5769-5 Bacteria	
First Trimester Maternal Serum Screening with Nuchal Translucency	49588-7 First trimester maternal screen with nuchal translucency [interpretation] Narrative	
Thyroid Stimulating Hormone (TSH)	11580-8 Thyrotropin (3rd generation) 3016-3 TSH 5385-0 Thyrotropin Receptor Ab 27975-2 TSH (serum)	
Triiodothyronine (T3)	3051-0 T3 Free 3052-8 T3 Reverse 3054-4 T3 True 3050-2 T3 Resin Uptake	

Add Section 6.5.G

6.5.G Antepartum Education Value Set 1.3.6.1.4.1.19376.1.5.3.1.1.16.5.8

Name	Opt	Type	units	SNOMED CT	LOINC
First Trimester					
Risk factors identified by prenatal history	R2	CD		440047008	
Anticipated course of prenatal care	R2	CD		17629007	
Special Diet	R2	CD		171054004	
Nutrition and weight gain counseling	R2	CD		171054004	
Toxoplasmosis precautions (cats/raw meat)	R2	CD		439733009	
Sexual activity	R2	CD		162169002	
Exercise	R2	CD		171056002	
Influenza vaccine	R2	CD		xx-edu-influenza need code closest is vaccine education 171044003	
Smoking/tobacco counseling	R2	CD		171055003	
Environmental/work hazards	R2	CD		385872009	
Travel	R2	CD		439816006	
Alcohol	R2	CD		171057006	
Illicit/recreational drugs	R2	CD		425014005	
Use of any medications	R2	CD		171058001	
Indications for ultrasound	R2	CD		440227005	

Domestic violence	R2	CD		413457006
Seatbelt use	R2	CD		440638004
Childbirth classes/hospital facilities	R2	CD		66961001
Second Trimester				
Childbirth classes/hospital facilities	R2	CD		66961001
Signs and symptoms of preterm labor	R2	CD		440669000
Abnormal Lab Values	R2	CD		410299006
Influenza vaccine	R2	CD		xx-edu-fluvaccine need code. Closest is vaccine education 171044003
Selecting a newborn care provider	R2	CD		439908001
Postpartum family planning	R2	CD		54070000
Tubal sterilization	R2	CD		243064009
Third Trimester				
Anesthesia/analgesia plans	R2	CD		243062008
Intended Facility for Delivery plan				310585007
Fetal movement monitoring	R2	CD		440309009
Labor signs	R2	CD		440671000
VBAC counseling	R2	CD		440073003
Signs & Symptoms of Pregnancy-induced hypertension	R2	CD		xx-edu-sspreclampsia need to request code
Postterm counseling	R2	CD		xx-edu-postterm need to request code
Circumcision	R2	CD		184002001
Bottle feeding	R2	CD		169644004

Breast feeding	R2	CD		169643005
Postpartum depression	R2	CD		439366005
Newborn education (Newborn screening, jaundice, SIDS, car seat)	R2	CD		75461000
Family medical leave or disability forms	R2	CD		40791000
Tubal sterilazation consent signed	R2	CD		408835000

Add Appendix Q

APPENDIX Q: Document Construction

Describe document construction.

