IHE Patient Care Coordination (PCC) Technical Framework Supplement

Antepartum Profiles (APE, APHP, APL, and APS)

Trial Implementation

Date: September 9, 2011
Author: PCC Technical Committee
Email: pcc@ihe.net
Foreword

This is a supplement to the IHE Patient Care Coordination Technical Framework V7.0. Each supplement undergoes a process of public comment and trial implementation before being incorporated into the volumes of the Technical Frameworks.

This supplement is submitted for Trial Implementation as of September 9, 2011 and will be available for testing at subsequent IHE Connectathons. The supplement may be amended based on the results of testing. Following successful testing it will be incorporated into the PCC Technical Framework. Comments are invited and can be submitted at http://www.ihe.net/pcc/pcccomments.cfm or by email to pcc@ihe.net.

This supplement describes changes to the existing technical framework documents and where indicated amends text by addition (bold underline) or removal (bold strikethrough), as well as addition of large new sections introduced by editor’s instructions to “add new text” or similar, which for readability are not bolded or underlined.

“Boxed” instructions like the sample below indicate to the Volume Editor how to integrate the relevant section(s) into the relevant Technical Framework volume:

Replace Section X.X by the following:

General information about IHE can be found at: www.ihe.net
Information about the IHE Patient Care Coordination domain can be found at: http://www.ihe.net/Domains/index.cfm
Information about the structure of IHE Technical Frameworks and Supplements can be found at: http://www.ihe.net/About/process.cfm and http://www.ihe.net/profiles/index.cfm
The current version of the IHE Technical Framework can be found at: http://www.ihe.net/Technical_Framework/index.cfm
Introduction

This supplement is written for Trial Implementation. 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 7.0
2. PCC Technical Framework Volume 2, Revision 7.0

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 8.0
2. IT Infrastructure Technical Framework Volume 2, Revision 8.0
3. IT Infrastructure Technical Framework Volume 3, Revision 8.0
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

How to read the Antepartum Profiles supplement

This supplement contains 4 content profiles – Antepartum History and Physical (APHP), Antepartum Summary (APS), Antepartum Laboratory (APL), and Antepartum Education (APE). Antepartum Record (APR) is no longer a profile as it has been subsumed by Perinatal Workflow (PW) profile.

Please see the below documents that will need to be referenced to fully understand the profiles in this supplement. Each document has a short description describing what is contained.

1. **Perinatal Workflow (PW):** makes use of the antepartum, labor and delivery, postpartum, and newborn delivery profiles (some are in this supplement and many are in other supplements).
2. **Content Modules Supplement:** This document contains all PCC Section Templates, Entry Templates and Value Sets that are not in Final Text (that is, they are not in the Technical Framework Volume 2).
3. **PCC Technical Framework Volume 2:** This contains all PCC Section Templates, Entry Templates and Value Sets (among other things) that are in Final Text.

---

\(^1\) The first four documents can be located on the IHE Website at [http://www.ihe.net/Technical_Framework/index.cfm#IT](http://www.ihe.net/Technical_Framework/index.cfm#IT). The remaining documents can be obtained from their respective publisher.
How to Access the Reference Material

To access the latest version of the Perinatal Workflow, CDA Content Modules or the PCC Technical Framework, navigate to http://www.ihe.net/Technical_Framework/index.cfm#pcc

Open Issues and Questions

1. Antepartum Laboratory (APL) currently consists of one document content module – should lab results instead be part of Antepartum Summary as a Coded Results section? This Coded Results section can still point to the Antepartum Laboratory value set as APL currently does now. This approach is consistent with how other data is structured in similar PCC content profiles.

Closed Issues

NA

170
Volume 1 – Profiles

*Add the following to section 1.5*

1.5 Copyright Permissions

*Add the following to section 2.4*

2.4 Dependencies of the PCC Integration Profiles

| Profile Name | ? | ? | ? |

*Add the following to section 2.5*

2.5 History of Annual Changes

*Add Section W*
W Antepartum History and Physical Content Profile (APHP)

Antepartum History and Physical is a content profile that defines the structure of the data that is often collected at the initial ambulatory office visit for a pregnant patient. It includes, but is not limited to demographics, histories, allergies, review of systems, physical examinations, and vital signs.

W.1 Purpose and Scope

Obstetric patients in labor and admitted to Labor and Delivery must have a complete summary of their antepartum ambulatory care available at the time of admission for optimal care. While this profile represents a portion of that data, and may be included with other antepartum care documents to make up a patient’s Antepartum Record, it may also be created as a standalone document as it is often transmitted separately from those other antepartum care documents. For further information on the full Perinatal Workflow overview and use cases see Perinatal Workflow section X.1.2 and section X.2.

W.2 Process Flow

W.2.1 Use Cases

For applicable use cases see Perinatal Workflow section X.2.1.

W.2.2 Diagrams

For applicable diagrams see Perinatal Workflow section X.2.2.

W.3 Actors/Transactions

There are two actors in this profile, the Content Creator and the Content Consumer. Content is created by a Content Creator and is to be consumed by a Content Consumer. The sharing or transmission of content from one actor to the other is addressed by the appropriate use of IHE profiles described below, and is out of scope of this profile. A Document Source or a Portable Media Creator may embody the Content Creator Actor. A Document Consumer, a Document Recipient, or a Portable Media Importer may embody the Content Consumer Actor. The sharing or transmission of content or updates from one actor to the other is addressed by the use of
appropriate IHE profiles described in the section on Content Bindings with XDS, XDM and XDR in PCC TF-2:4.1.

![Actor Diagram](image)

**Figure X.3-1. Actor Diagram**

### W.3.1 Requirements of Actors

### W.4 Options

Options that may be selected for this Content Profile are listed in the table W.4-1 along with the Actors to which they apply. Dependencies between options when applicable are specified in notes.

<table>
<thead>
<tr>
<th>Actor</th>
<th>Option</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Consumer</td>
<td>View Option (See Note 1)</td>
<td>PCC TF-2: 3.1.1</td>
</tr>
<tr>
<td></td>
<td>Document Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.2</td>
</tr>
<tr>
<td></td>
<td>Section Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.3</td>
</tr>
<tr>
<td></td>
<td>Discrete Data Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.4</td>
</tr>
<tr>
<td>Content Creator</td>
<td>No options defined</td>
<td></td>
</tr>
</tbody>
</table>

*Note 1: The Actor shall support at least one of these options.*

### W.5 Groupings

### W.6 Security Considerations

### W.7 Content Modules

<table>
<thead>
<tr>
<th>ACOG Antepartum Record Datum</th>
<th>PCC Template Name</th>
<th>PCC Template Id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Demographics</td>
<td>Header Modules</td>
<td>N/A</td>
</tr>
<tr>
<td>ACOG Antepartum Record Datum</td>
<td>PCC Template Name</td>
<td>PCC Template Id</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------</td>
<td>----------------------------------</td>
</tr>
<tr>
<td>Chief Complaint</td>
<td>Chief Complaint</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1</td>
</tr>
<tr>
<td>Pregnancy History</td>
<td>Pregnancy History</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.5.3.4</td>
</tr>
<tr>
<td>Medical History</td>
<td>History of Past Illness</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.8</td>
</tr>
<tr>
<td>Medical History – Tobacco, Alcohol, Drugs</td>
<td>Coded Social History</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.16.1</td>
</tr>
<tr>
<td>Medical History – Relevant Family History</td>
<td>Coded Family Medical History</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.15</td>
</tr>
<tr>
<td>Medications</td>
<td>Medications</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.19</td>
</tr>
<tr>
<td>Allergies</td>
<td>Allergies and Other Adverse Reactions</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.13</td>
</tr>
<tr>
<td>Menstrual History/Symptoms Since LMP</td>
<td>Review of Systems</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.18</td>
</tr>
<tr>
<td>Genetic Screening/Teratology Counseling</td>
<td>Coded Family History Medical History</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.15</td>
</tr>
<tr>
<td>Infection History</td>
<td>Coded History of Infection</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1</td>
</tr>
<tr>
<td>Initial Physical Examination</td>
<td>Coded Physical Exam</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1</td>
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<tr>
<td>Vital Signs</td>
<td>Coded Vital Signs</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.5.3.2</td>
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<tr>
<td>Diagnostic Findings</td>
<td>Coded Results</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.28</td>
</tr>
<tr>
<td>Surgical History</td>
<td>History of Surgical Procedures</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2</td>
</tr>
</tbody>
</table>

*Add Section X*
X Antepartum Summary Content Profile (APS)

Antepartum Summary is a content profile that defines the structure for the aggregation of significant events, diagnoses, and plans of care derived from the visits over the course of an antepartum episode. It is represented in part by Estimated Due Dates and a Visit Summary Flowsheet, in which the aggregated data from the ambulatory office visits is recorded, as well as allergies, advance directives, care plans, and selected histories are provided.

X.1 Purpose and Scope

Obstetric patients in labor and admitted to Labor and Delivery must have a complete summary of their antepartum ambulatory care available at the time of admission. While this profile represents a portion of that data and may be included with other antepartum care documents to make up a patient’s Antepartum Record, it may also be created as a standalone document and may be transmitted separately from those other antepartum care documents. For further information on the full Perinatal Workflow overview and use cases see Perinatal Workflow section X.1.2 and section X.2.

X.2 Process Flow

X.2.1 Use Cases

For applicable use cases see Perinatal Workflow section X.2.1.

X.2.2 Diagrams

For applicable diagrams see Perinatal Workflow section X.2.2.

X.3 Actors/Transactions

There are two actors in this profile, the Content Creator and the Content Consumer. Content is created by a Content Creator and is to be consumed by a Content Consumer. The sharing or transmission of content from one actor to the other is addressed by the appropriate use of IHE profiles described below, and is out of scope of this profile. A Document Source or a Portable Media Creator may embody the Content Creator Actor. A Document Consumer, a Document
Recipient, or a Portable Media Importer may embody the Content Consumer Actor. The sharing or transmission of content or updates from one actor to the other is addressed by the use of appropriate IHE profiles described in the section on Content Bindings with XDS, XDM and XDR in PCC TF-2:4.1.

![Actor Diagram](image)

**Figure X.3-1. Actor Diagram**

### X.3.1 Requirements of Actors

#### X.4 Options

Options that may be selected for this Content Profile are listed in the table X.4-1 along with the Actors to which they apply. Dependencies between options when applicable are specified in notes.

**Table X.4-1. Antepartum Summary Options**

<table>
<thead>
<tr>
<th>Actor</th>
<th>Option</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Consumer</td>
<td>View Option (See Note 1)</td>
<td>PCC TF-2: 3.1.1</td>
</tr>
<tr>
<td></td>
<td>Document Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.2</td>
</tr>
<tr>
<td></td>
<td>Section Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.3</td>
</tr>
<tr>
<td></td>
<td>Discrete Data Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.4</td>
</tr>
<tr>
<td>Content Creator</td>
<td>No options defined</td>
<td></td>
</tr>
</tbody>
</table>

**Note 1:** The Actor shall support at least one of these options.

### X.5 Groupings

### X.6 Security Considerations

### X.7 Content Modules
Table X.7-1. Antepartum Summary Content Modules

<table>
<thead>
<tr>
<th>ACOG Antepartum Record Datum</th>
<th>PCC Template Name</th>
<th>PCC Template Id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drug Allergy/Latex Allergy</td>
<td>Allergies and Other Adverse Reactions</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.13</td>
</tr>
<tr>
<td>Is Blood Transfusion Acceptable</td>
<td>Advance Directives</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.34</td>
</tr>
<tr>
<td>Antepartum Anesthesia Consult Planned</td>
<td>Care Plan</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.31</td>
</tr>
<tr>
<td>Problems/Plans</td>
<td>Problems</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.6</td>
</tr>
<tr>
<td>Medication List</td>
<td>Active Medications</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.19</td>
</tr>
<tr>
<td>EDD Confirmation/18-20 Week EDD Update</td>
<td>Estimated Delivery Dates</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.112.2.1</td>
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<tr>
<td>Prepregnancy Weight</td>
<td>Antepartum Visit Summary Flowsheet</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.112.2.2</td>
</tr>
<tr>
<td>Visit Flowsheet</td>
<td>Antepartum Visit Summary Flowsheet</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.112.2.2</td>
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<tr>
<td></td>
<td>Coded Antenatal Testing and Surveillance</td>
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</tr>
<tr>
<td></td>
<td>History of Surgical Procedures</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.162.2</td>
</tr>
</tbody>
</table>

Add Section Y
Y Antepartum Laboratory Content Profile (APL)

Antepartum Laboratory is a content profile that provides the data structure to represent results from standard laboratory tests administered during the antepartum episode.

Y.1 Purpose and Scope

Obstetric patients in labor and admitted to Labor and Delivery must have a complete summary of their antepartum ambulatory care available at the time of admission. While this profile represents a portion of that data and may be included with other antepartum care documents to make up a patient’s Antepartum Record, it may also be created as a standalone document and may be transmitted separately from those other antepartum care documents. For further information on the full Perinatal Workflow overview and use cases see Perinatal Workflow section X.1.2 and section X.2.

Y.2 Process Flow

Y.2.1 Use Cases

For applicable use cases see Perinatal Workflow section X.2.1.

Y.2.2 Diagrams

For applicable diagrams see Perinatal Workflow section X.2.2.

Y.3 Actors/Transactions

There are two actors in this profile, the Content Creator and the Content Consumer. Content is created by a Content Creator and is to be consumed by a Content Consumer. The sharing or transmission of content from one actor to the other is addressed by the appropriate use of IHE profiles described below, and is out of scope of this profile. A Document Source or a Portable Media Creator may embody the Content Creator Actor. A Document Consumer, a Document Recipient, or a Portable Media Importer may embody the Content Consumer Actor. The sharing or transmission of content or updates from one actor to the other is addressed by the use of appropriate IHE profiles described in the section on Content Bindings with XDS, XDM and XDR in PCC TF-2:4.1.
Y.3.1 Requirements of Actors

Y.4 Options

Options that may be selected for this Content Profile are listed in the table Y.4-1 along with the Actors to which they apply. Dependencies between options when applicable are specified in notes.

<table>
<thead>
<tr>
<th>Actor</th>
<th>Option</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Consumer</td>
<td>View Option (See Note 1)</td>
<td>PCC TF-2: 3.1.1</td>
</tr>
<tr>
<td></td>
<td>Document Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.2</td>
</tr>
<tr>
<td></td>
<td>Section Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.3</td>
</tr>
<tr>
<td></td>
<td>Discrete Data Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.4</td>
</tr>
<tr>
<td>Content Creator</td>
<td>No options defined</td>
<td></td>
</tr>
</tbody>
</table>

Note 1: The Actor shall support at least one of these options.

Y.5 Groupings

Y.6 Security Considerations

Y.7 Content Modules

There are no content module mappings for Antepartum Laboratory as XD-LAB profile is referenced in full.

Add Section Z
Z Antepartum Education Content Profile (APE)

Antepartum Education is a content profile that provides the document structure to represent educational material provided during the office visit(s) for the antepartum episode.

Z.1 Purpose and Scope

Obstetric patients in labor and admitted to Labor and Delivery must have a complete summary of their antepartum ambulatory care available at the time of admission. While this profile represents a portion of that data and may be included with other antepartum care documents to make up a patient’s Antepartum Record, it may also be created as a standalone document and may be transmitted separately from those other antepartum care documents. For further information on the full Perinatal Workflow overview and use cases see Perinatal Workflow section X.1.2 and section X.2.

Z.2 Process Flow

Z.2.1 Use Cases

For applicable use cases see Perinatal Workflow section X.2.1.

Z.2.2 Diagrams

For applicable diagrams see Perinatal Workflow section X.2.2.

Z.3 Actors/Transactions

There are two actors in this profile, the Content Creator and the Content Consumer. Content is created by a Content Creator and is to be consumed by a Content Consumer. The sharing or transmission of content from one actor to the other is addressed by the appropriate use of IHE profiles described below, and is out of scope of this profile. A Document Source or a Portable Media Creator may embody the Content Creator Actor. A Document Consumer, a Document Recipient, or a Portable Media Importer may embody the Content Consumer Actor. The sharing or transmission of content or updates from one actor to the other is addressed by the use of
appropriate IHE profiles described in the section on Content Bindings with XDS, XDM and XDR in PCC TF-2:4.1.

Figure Z.3-1. Actor Diagram

Z.3.1 Requirements of Actors

Z.4 Options

Options that may be selected for this Content Profile are listed in the table Z.4-1 along with the Actors to which they apply. Dependencies between options when applicable are specified in notes.

Table Z.4-1. Antepartum Education Options

<table>
<thead>
<tr>
<th>Actor</th>
<th>Option</th>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content Consumer</td>
<td>View Option (See Note 1)</td>
<td>PCC TF-2: 3.1.1</td>
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<tr>
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<td>Document Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.2</td>
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<td></td>
<td>Section Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.3</td>
</tr>
<tr>
<td></td>
<td>Discrete Data Import Option (See Note 1)</td>
<td>PCC TF-2: 3.1.4</td>
</tr>
<tr>
<td>Content Creator</td>
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<td></td>
</tr>
</tbody>
</table>

Note 1: The Actor shall support at least one of these options.

Z.5 Groupings

Z.6 Security Considerations

Z.7 Content Modules
Table Z.7-1. Antepartum Education Content Modules

<table>
<thead>
<tr>
<th>ACOG Antepartum Record Datum</th>
<th>PCC Template Name</th>
<th>PCC Template Id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education, First Trimester</td>
<td>Patient Education</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.9.38</td>
</tr>
<tr>
<td>Education, Second Trimester</td>
<td>Patient Education</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.9.38</td>
</tr>
<tr>
<td>Education, Third Trimester</td>
<td>Patient Education</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.9.38</td>
</tr>
</tbody>
</table>
Glossary

Add the following terms to the Glossary:

<table>
<thead>
<tr>
<th>Term</th>
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</thead>
<tbody>
<tr>
<td>405</td>
</tr>
</tbody>
</table>
Volume 2 – Transactions and Content Modules
5 Namespaces and Vocabularies

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<tr>
<th>codeSystem</th>
<th>codeSystemName</th>
<th>Description</th>
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<tbody>
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5.1 IHE Format Codes

<table>
<thead>
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<th>Profile</th>
<th>Format Code</th>
<th>Media Type</th>
<th>Template ID</th>
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<tr>
<td>Antepartum History and Physical (APHP)</td>
<td>urn:ihe:pcc:aphp:2008</td>
<td>text/xml</td>
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<tr>
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<td>text/xml</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.16.1.2</td>
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<td>text/xml</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.16.1.3</td>
</tr>
</tbody>
</table>
6 PCC Content Modules

6.2 Folder Content Modules
See Perinatal Workflow section 6.2.A.

6.3 HL7 Version 3.0 Content Modules

6.3.1 CDA Document Content Modules

Add section 6.3.1.A

6.3.1.A Antepartum History and Physical Specification
1.3.6.1.4.1.19376.1.5.3.1.1.16.1.1

The Antepartum History and Physical contains a record of the History and Physical usually performed during the initial visit. This document content module is a History and Physical and inherits all header constraints from History and Physical (1.3.6.1.4.1.19376.1.5.3.1.1.16.1.4)

6.3.1.A.1 Format Code
The XDSDocumentEntry format code for this content is urn:ihe:pcc:aphp:2008

6.3.1.A.2 LOINC Code
The LOINC code for this document is 34117-2 HISTORY AND PHYSICAL

6.3.1.A.3 Standards

<table>
<thead>
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<th>Standard</th>
<th>Description</th>
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<td>CCD</td>
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</tr>
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<td>HL7 CDA Release 2.0</td>
</tr>
<tr>
<td>ACOG AR</td>
<td>American College of Obstetricians and Gynecologists (ACOG), Antepartum Record</td>
</tr>
<tr>
<td>LOINC</td>
<td>Logical Observation Identifiers, Names and Codes</td>
</tr>
<tr>
<td>SNOMED</td>
<td>Systemized Nomenclature for Medicine</td>
</tr>
<tr>
<td>CDTHP</td>
<td>CDA for Common Document Types History and Physical Notes (DSTU)</td>
</tr>
</tbody>
</table>

6.3.1.A.4 Specification
This section references content modules using Template Id as the key identifier. Definitions of the modules are found in either:
- IHE Patient Care Coordination Volume 2: Final Text
- IHE PCC Content Modules 2011 Supplement
### Table 6.3.1.A.4-1. Antepartum History and Physical Specification

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<td>R</td>
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<td></td>
<td>Vol 2: 6.3.2.6</td>
<td></td>
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<tr>
<td>Ethnicity</td>
<td>R2</td>
<td>The ethnicity of the patient should be recorded</td>
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<tr>
<td>Chief Complaint</td>
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<td>1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1 IHE PCC 2:6.3.3.1.3</td>
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</tr>
<tr>
<td>History of Past Illness</td>
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<td>1.3.6.1.4.1.19376.1.5.3.1.1 .16.5.1</td>
</tr>
<tr>
<td>Coded History of Infection</td>
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<td>Coded Social History</td>
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<td>1.3.6.1.4.1.19376.1.5.3.1.3.16.1 PCC TF Supplement CDA Content Modules (TI)</td>
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</tr>
<tr>
<td>Coded Family Medical History</td>
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<td>1.3.6.1.4.1.19376.1.5.3.1.1 .16.5.4</td>
</tr>
</tbody>
</table>

**Ethnicity**

The ethnicity of the patient should be recorded.

**Chief Complaint**

This section is the same as it is for History and Physical, however it SHOULD contain entries and SHOULD use codes as specified in the Antepartum History and Physical History of Past Illness Value Set. A negative diagnosis SHALL be recorded with the use of the negation indicator attribute. If the data is not present or not available within the system no entry is required.

**Coded Family Medical History**

This section is the same as it is for History & Physical, however it SHALL contain Genetic Screening and Teratology Counseling information as specified in the

---

Rev. 1.2 - 2011-09-09 Copyright © 2011: IHE International, Inc.
### Template Name

<table>
<thead>
<tr>
<th></th>
<th>Opt</th>
<th>Section Template Id / Location</th>
<th>Value Set Template Id</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antepartum Family History and Genetic Screening Value Set. If the data is not present or not available within the system no entries are required.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Allergies and Other Adverse Reactions</td>
<td>R</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.13</td>
<td>N/A</td>
</tr>
<tr>
<td>Review of Systems</td>
<td>R</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.18</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1 .16.5.5</td>
</tr>
<tr>
<td>Coded Physical Exam</td>
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<td>1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1</td>
<td>N/A</td>
</tr>
<tr>
<td>History of Surgical Procedures</td>
<td>R2</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### 6.3.1.A.5 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 History and Physical 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'/><!--Medical Summary-->
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.16.1.4'/><!--History and Physical-->
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.16.1.11'/><!--Antepartum History and Physical-->
  <id root=' ' extension=' '/>
  <code code='34117-2' displayName='HISTORY AND PHYSICAL' codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
  <title>Antepartum 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'/>
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  </structuredBody></component>
</ClinicalDocument>
Add section 6.3.1.B

6.3.1.B Antepartum Summary Specification 1.3.6.1.4.1.19376.1.5.3.1.1.11.2

The Antepartum Summary represents a summary of the most critical information to an antepartum care provider regarding the status of a patient’s pregnancy. This 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).

6.3.1.B.1 Format Code

The XDSDocumentEntry format code for this content is urn:ihe:pcc:aps:2007

6.3.1.B.2 LOINC Code

The LOINC code for this document is 57055-6 Antepartum summary

6.3.1.B.3 Standards

<table>
<thead>
<tr>
<th>Standard</th>
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<tbody>
<tr>
<td>CCD</td>
<td>ASTM/HL7 Continuity of Care Document</td>
</tr>
<tr>
<td>CDAR2</td>
<td>HL7 CDA Release 2.0</td>
</tr>
<tr>
<td>ACOG</td>
<td>American College of Obstetricians and Gynecologists (ACOG), Antepartum Record</td>
</tr>
<tr>
<td>LOINC</td>
<td>Logical Observation Identifiers, Names and Codes</td>
</tr>
<tr>
<td>SNOMED</td>
<td>Systemized Nomenclature for Medicine</td>
</tr>
<tr>
<td>CDTHP</td>
<td>CDA for Common Document Types History and Physical Notes (DSTU)</td>
</tr>
</tbody>
</table>
6.3.1.B.4 Specification

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

- IHE Patient Care Coordination Volume 2: Final Text
- IHE PCC Content Modules 2011 Supplement

<table>
<thead>
<tr>
<th>Template Name</th>
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<th>Value Set Template Id</th>
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<tr>
<td>Allergies and Other Adverse Reactions</td>
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<td>1.3.6.1.4.1.19376.1.5.3.1.3.13</td>
<td>IHE PCC 2:6.3.3.2.11</td>
</tr>
<tr>
<td>This section is the same as for Medical Summary, however it SHALL include one observation of Latex Allergy which may be negated through the negationInd attribute. Latex Allergy is particularly relevant for Obstetrics because of the frequency of vaginal exams that might involve the use of latex gloves. The observation value code for Latex Allergy is '300916003'. The codeSystem is '2.16.840.1.113883.6.96'. The codeSystemName is 'SNOMED CT'.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advance Directives</td>
<td>R</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.34</td>
<td>IHE PCC 2:6.3.3.6.5</td>
</tr>
<tr>
<td>APS includes an explicit check of patients preference for blood transfusion because the risk of massive hemorrhage during delivery is much higher. This observation SHALL be recorded in the Advance Directives section. A simple observation of &quot;blood transfusion acceptable?&quot; SHALL be included with the value '(xx-bld-transf-ok)'. The codeSystem is '2.16.840.1.113883.6.1'. The codeSystemName is 'LOINC'.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Care Plan</td>
<td>R</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.31</td>
<td>IHE PCC 2:6.3.3.6.1</td>
</tr>
</tbody>
</table>
| APS forms SHOULD include an observation stating if an anesthesia consult is planned. When present, the observation value for this observation is '(xx-anest-consult-planned)'. The codeSystem is '2.16.840.1.113883.6.1'. The codeSystemName is 'LOINC'. If the type of anesthesia planned is known, systems SHOULD include
<table>
<thead>
<tr>
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<th>Section Template Id / Location</th>
<th>Value Set Template Id</th>
</tr>
</thead>
<tbody>
<tr>
<td>an observation to represent that data using the LOINC code '(xx-type-of-anesth-pland)' with a CD value including one of the following values: ( General</td>
<td>Epidural</td>
<td>Spinal) or a Null flavor to represent unknown or not listed.</td>
<td></td>
</tr>
<tr>
<td>Medications</td>
<td>R</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.19</td>
<td>IHE PCC 2.6.3.3.1</td>
</tr>
<tr>
<td>Medications should include start and stop date if known.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Active Problems</td>
<td>R</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.3.6</td>
<td>IHE PCC 2.6.3.3.2.3</td>
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<tr>
<td>Related Plans should be included in the Care Plan section.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Estimated Delivery Date</td>
<td>R</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.11.2.2.1</td>
<td>PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.2.28</td>
</tr>
<tr>
<td>Antepartum Visit Summary Flowsheet</td>
<td>R</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.11.2.2.2</td>
<td>PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.9.3</td>
</tr>
<tr>
<td>History of Surgical Procedures</td>
<td>R2</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2</td>
<td>PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.2.44</td>
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<tr>
<td>Coded Antenatal Testing and Surveillance</td>
<td>R2</td>
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<td>PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.5.7</td>
</tr>
</tbody>
</table>

Note: The Antepartum Summary is typically used as a 'living document' where the latest information is added to the end of the flowsheet at each visit. This is different than a typical Medical Summary which typically would not share information until document is complete. Although this pattern of updates is not prohibited by Medical Summary, it is also not typical. For APS documents may be published at the end of each visit, but subsequent updates with a pregnancy SHALL be represented as document replacement by including a <relatedDocument typeCode='REPL'> element as below.

```
<ClinicalDocument xmlns='urn:hl7-org:v3'>
  <relatedDocument typeCode='REPL'>
    <parentDocument>
      <id root=' ' extension=' '/>
    </parentDocument>
  </relatedDocument>
</ClinicalDocument>
```

Figure 6.3.1.B.4-1
6.3.1.B.5 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 Summary 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'>
  <id root=' ' extension=' '/>
  <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'/><!--Medical Summary-->
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.11.2'/><!--Antepartum Summary-->
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  <languageCode code='en-US'/>
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    </structuredBody>
  </component>
</ClinicalDocument>
Add Section 6.3.1.C: Antepartum Lab Specification

6.3.1.C Antepartum Laboratory Specification 1.3.6.1.4.1.19376.1.5.3.1.1.16.1.2

The Antepartum Laboratory SHALL follow all constraints as defined in the XD-LAB profile, as described in LAB TF-3:4. There is a suggested code list provided in the Antepartum Laboratory Value Set. Due to the variation possible in these laboratory results, and the potential for new codes representing new types of laboratory data, a tightly constrained code list is not provided.

6.3.1.C.1 Format Code

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

6.3.1.C.2 LOINC Code

The LOINC code for this document is 26436-6 Laboratory Studies

6.3.1.C.3 Standards

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<th>CCD</th>
<th>ASTM/HL7 Continuity of Care Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDAR2</td>
<td>HL7 CDA Release 2.0</td>
</tr>
<tr>
<td>ACOG AR</td>
<td>American College of Obstetricians and Gynecologists (ACOG), Antepartum Record</td>
</tr>
<tr>
<td>LOINC</td>
<td>Logical Observation Identifiers, Names and Codes</td>
</tr>
<tr>
<td>CDTHP</td>
<td>CDA for Common Document Types History and Physical Notes (DSTU)</td>
</tr>
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</table>

6.3.1.C.4 Specification

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<th>Opt</th>
<th>Section Template Id</th>
<th>Value Set Template Id</th>
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<tbody>
<tr>
<td>Laboratory Results</td>
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<td>1.3.6.1.4.1.19376.1.5.3.1.1.16.5.7</td>
</tr>
</tbody>
</table>

The Antepartum Laboratory Value Set should be used to represent laboratory results.

6.3.1.C.5 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 XD Lab Report 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.

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  <templateId root='1.3.6.1.4.1.19376.1.3.3'/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.1.2'/><!--Antepartum Laboratory-->
  <id root=' ' extension=' '/>
  <code code='26436-6' displayName='Laboratory Studies'
    codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
  <title>Antepartum Laboratory</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><structuredBody>
  </ClinicalDocument>
```

Figure 6.3.1.C.5-1 Sample Antepartum Laboratory Document

Add Section 6.3.1.D: Antepartum Education Specification

6.3.1.D Antepartum Education Specification 1.3.6.1.4.1.19376.1.5.3.1.1.16.1.3

The Antepartum Education contains a list of patient education activities that have occured or have been planned to review with the patient.

6.3.1.D.1 Format Code

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

6.3.1.D.2 LOINC Code

The LOINC code for this document is 34895-3 EDUCATION NOTE

6.3.1.D.3 Standards

<table>
<thead>
<tr>
<th>CCD</th>
<th>ASTM/HL7 Continuity of Care Document</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDAR2</td>
<td>HL7 CDA Release 2.0</td>
</tr>
<tr>
<td>ACOG AR</td>
<td>American College of Obstetricians and Gynecologists (ACOG), Antepartum Record</td>
</tr>
<tr>
<td>LOINC</td>
<td>Logical Observation Identifiers, Names and Codes</td>
</tr>
<tr>
<td>SNOMED</td>
<td>Systemized Nomenclature for Medicine</td>
</tr>
<tr>
<td>CDTHP</td>
<td>CDA for Common Document Types History and Physical Notes (DSTU)</td>
</tr>
</tbody>
</table>
6.3.1.D.4 Specification

Table 6.3.1.D.4-1. Antepartum Education Specification

<table>
<thead>
<tr>
<th>Template Name</th>
<th>Opt</th>
<th>Section Template Id</th>
<th>Value Set Template Id</th>
</tr>
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<tbody>
<tr>
<td>Patient Education</td>
<td>R</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.9.38</td>
<td>1.3.6.1.4.1.19376.1.5.3.1.1.16.5.8</td>
</tr>
<tr>
<td>This section SHALL follow all constraints as listed in the Patient Education Section, and SHOULD use the codes specified in the Antepartum Education Value Set.</td>
<td></td>
<td>PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.6.14</td>
<td></td>
</tr>
</tbody>
</table>

6.3.1.D.5 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 Documents 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.

```xml
<ClinicalDocument xmlns='urn:hl7-org:v3'>
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/>
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.1'/><!--Medical Document-->
  <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.1.3'/><!--Antepartum Education-->
  <id root=' ' extension=' '/>
  <code code='34895-3' displayName='EDUCATION NOTE' codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
  <title>Antepartum Education</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='1.3.6.1.4.1.19376.1.5.3.1.1.9.38'/>
        <!-- Required Patient Education Section content -->
      </section>
    </component>
  </structuredBody></component>
</ClinicalDocument>
```

Figure 6.3.1.D.5-1. Sample Antepartum Education Document