Integrating the Healthcare Enterprise

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IHE Patient Care Coordination (PCC) Technical Framework Supplement

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

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Trial Implementation

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20 Date: September 9, 2011

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Foreword

This is a supplement to the IHE Patient Care Coordination Technical Framework V7.0. Each
25   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
30   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,
35   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:

40

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:
45   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

50 **CONTENTS**

3

4

Introduction

This supplement is written for Trial Implementation. It is written as changes to the documents
140   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:

145   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.](#)

150   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).

155   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.

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[1] The first four 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 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

165

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

175 ## 1.5 Copyright Permissions

Add the following to section 2.4

2.4 Dependencies of the PCC Integration Profiles

<Profile Name>	<?>	<?>	<->

180

Add the following to section 2.5

2.5 History of Annual Changes

Add Section W

W Antepartum History and Physical Content Profile (APHP)

185   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

190 | *Change referenced section numbering when merged into technical framework* |

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
195   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

200   ### W.2.1 Use Cases

| *Change referenced section numbering when merged into technical framework* |

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

W.2.2 Diagrams

205 | *Change referenced section numbering when merged into technical framework* |

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
210   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
215   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.

220

Figure X.3-1. Actor Diagram

W.3.1 Requirements of Actors

W.4 Options

225 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 W.4-1. Antepartum History and Physical Options

Actor	Option	Section
Content Consumer	View Option (See Note 1)	PCC TF-2: 3.1.1
	Document Import Option (See Note 1) Section Import Option (See Note 1) Discrete Data Import Option (See Note 1)	PCC TF-2: 3.1.2 PCC TF-2: 3.1.3 PCC TF-2: 3.1.4
Content Creator	No options defined	

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

230 ## W.5 Groupings

W.6 Security Considerations

W.7 Content Modules

Table W.7-1. Antepartum History and Physical Content Modules

ACOG Antepartum Record Datum	PCC Template Name	PCC Template Id
Demographics	Header Modules	N/A

9

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

235

Add Section X

_____

X Antepartum Summary Content Profile (APS)

> *Change referenced section numbering when merged into technical framework*

240

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

245   allergies, advance directives, care plans, and selected histories are provided.

X.1 Purpose and Scope

> *Change referenced section numbering when merged into technical framework*

Obstetric patients in labor and admitted to Labor and Delivery must have a complete summary of

250   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

255   section X.1.2 and section X.2.

X.2 Process Flow

X.2.1 Use Cases

> *Change referenced section numbering when merged into technical framework*

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

X.2.2 Diagrams

> *Change referenced section numbering when merged into technical framework*

For applicable diagrams see Perinatal Workflow section X.2.2.

265   ## 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

270   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.

275

Figure X.3-1. Actor Diagram

X.3.1 Requirements of Actors

280 ## 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

Actor	Option	Section
Content Consumer	View Option (See Note 1)	PCC TF-2: 3.1.1
	Document Import Option (See Note 1) Section Import Option (See Note 1) Discrete Data Import Option (See Note 1)	PCC TF-2: 3.1.2 PCC TF-2: 3.1.3 PCC TF-2: 3.1.4
Content Creator	No options defined	

285

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

X.5 Groupings

X.6 Security Considerations

290 ## X.7 Content Modules

Table X.7-1. Antepartum Summary Content Modules

ACOG Antepartum Record Datum	PCC Template Name	PCC Template Id
Drug Allergy/Latex Allergy	Allergies and Other Adverse Reactions	1.3.6.1.4.1.19376.1.5.3.1.3.13
Is Blood Transfusion Acceptable	Advance Directives	1.3.6.1.4.1.19376.1.5.3.1.3.34
Antepartum Anesthesia Consult Planned	Care Plan	1.3.6.1.4.1.19376.1.5.3.1.3.31
Problems/Plans	Problems	1.3.6.1.4.1.19376.1.5.3.1.3.6
Medication List	Active Medications	1.3.6.1.4.1.19376.1.5.3.1.3.19
EDD Confirmation/18-20 Week EDD Update	Estimated Delivery Dates	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1
Prepregnancy Weight	Antepartum Visit Summary Flowsheet	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.2
Visit Flowsheet	Antepartum Visit Summary Flowsheet	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.2
	Coded Antenatal Testing and Surveillance	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1
	History of Surgical Procedures	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2

295   *Add Section Y*

_____

Y Antepartum Laboratory Content Profile (APL)

> *Change referenced section numbering when merged into technical framework*

300   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

> *Change referenced section numbering when merged into technical framework*

305   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
310   section X.1.2 and section X.2.

Y.2 Process Flow

Y.2.1 Use Cases

> *Change referenced section numbering when merged into technical framework*

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

Y.2.2 Diagrams

> *Change referenced section numbering when merged into technical framework*

For applicable diagrams see Perinatal Workflow section X.2.2.

Y.3 Actors/Transactions

320   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
325   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.

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330

Figure Y.3-1. Actor Diagram

Y.3.1 Requirements of Actors

Y.4 Options

335 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 Y.4-1. Antepartum Laboratory Options

Actor	Option	Section
Content Consumer	View Option (See Note 1)	PCC TF-2: 3.1.1
	Document Import Option (See Note 1) Section Import Option (See Note 1) Discrete Data Import Option (See Note 1)	PCC TF-2: 3.1.2 PCC TF-2: 3.1.3 PCC TF-2: 3.1.4
Content Creator	No options defined	

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

340

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
345 referenced in full.

Add Section Z

Z Antepartum Education Content Profile (APE)

Change referenced section numbering when merged into technical framework

350

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

Change referenced section numbering when merged into technical framework

355

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.

360

Z.2 Process Flow

Z.2.1 Use Cases

365

Change referenced section numbering when merged into technical framework

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

Z.2.2 Diagrams

Change referenced section numbering when merged into technical framework

370

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

375

380   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

385

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
390   notes.

Table Z.4-1. Antepartum Education Options

Actor	Option	Section
Content Consumer	View Option (See Note 1)	PCC TF-2: 3.1.1
	Document Import Option (See Note 1) Section Import Option (See Note 1) Discrete Data Import Option (See Note 1)	PCC TF-2: 3.1.2 PCC TF-2: 3.1.3 PCC TF-2: 3.1.4
Content Creator	No options defined	

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

Z.5 Groupings

395   ## Z.6 Security Considerations

Z.7 Content Modules

Table Z.7-1. Antepartum Education Content Modules

ACOG Antepartum Record Datum	PCC Template Name	PCC Template Id
Education, First Trimester	Patient Education	1.3.6.1.4.1.19376.1.5.3.1.1.9.38
Education, Second Trimester	Patient Education	1.3.6.1.4.1.19376.1.5.3.1.1.9.38
Education, Third Trimester	Patient Education	1.3.6.1.4.1.19376.1.5.3.1.1.9.38

400

Glossary

Add the following terms to the Glossary:

405

Volume 2 – Transactions and Content Modules

5 Namespaces and Vocabularies

codeSystem	codeSystemName	Description

410

5.1 IHE Format Codes

Profile	Format Code	Media Type	Template ID
Antepartum History and Physical (APHP)	urn:ihe:pcc:aphp:2008	text/xml	1.3.6.1.4.1.19376.1.5.3.1.1.16.1.1
Antepartum Summary (APS)	urn:ihe:pcc:aps:2007	text/xml	1.3.6.1.4.1.19376.1.5.3.1.1.11.2
Antepartum Laboratory (APL)	urn:ihe:pcc:apl:2008	text/xml	1.3.6.1.4.1.19376.1.5.3.1.1.16.1.2
Antepartum Education (APE)	urn:ihe:pcc:ape:2008	text/xml	1.3.6.1.4.1.19376.1.5.3.1.1.16.1.3

6 PCC Content Modules

6.2 Folder Content Modules

415

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

420

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 constaints 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

425

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

CCD	ASTM/HL7 Continuity of Care Document
CDAR2	HL7 CDA Release 2.0
ACOG AR	American College of Obstetricians and Gynecologists (ACOG), Antepartum Record
LOINC	Logical Observation Identifiers, Names and Codes
SNOMED	Systemized Nomenclature for Medicine
CDTHP	CDA for Common Document Types History and Physical Notes (DSTU)

6.3.1.A.4 Specification

430

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

435

Table 6.3.1.A.4-1. Antepartum History and Physical Specification

Template Name	Opt	Section Template Id / Location	Value Set Template Id
Spouse	R	1.3.6.1.4.1.19376.1.5.3.1.2.4.1 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.2.5	N/A
Natural Father of Fetus	R	1.3.6.1.4.1.19376.1.5.3.1.2.4.2 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.2.6	N/A
Ethnicity The ethnicity of the patient should be recorded	R2		N/A
Chief Complaint	R	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1 IHE PCC 2:6.3.3.1.3	N/A
History of Present Illness	R	1.3.6.1.4.1.19376.1.5.3.1.3.4 IHE PCC 2:6.3.3.1.3	N/A
History of Past Illness This section is the same as it is for History and Physical, however it SHALL 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.	R	1.3.6.1.4.1.19376.1.5.3.1.3.8 IHE PCC 2:6.3.3.2.1	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.1
Coded History of Infection This section SHOULD use the codes specified in the Antepartum History of Infection Value Set.	R	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.2.37	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.6
Pregnancy History	R	1.3.6.1.4.1.19376.1.5.3.1.1.5.3.4 IHE PCC 2:6.3.3.2.18	N/A
Coded Social History	R	1.3.6.1.4.1.19376.1.5.3.1.3.16.1 PCC TF Supplement CDA Content Modules (TI) Vol 2:6.3.3.2.36	N/A
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	R	1.3.6.1.4.1.19376.1.5.3.1.3.15 IHE PCC 2:6.3.3.2.13	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.4

23

Template Name	Opt	Section Template Id / Location	Value Set Template Id
Antepartum Family History and Genetic Screening Value Set. If the data is not present or not available within the system no entries are required.			
Allergies and Other Adverse Reactions	R	1.3.6.1.4.1.19376.1.5.3.1.3.13 IHE PCC 2:6.3.3.2.11	N/A
Review of Systems This section is the same as it is for History & Physical, however it SHALL include organizers for Menstrual History and MAY include entries for general review of systems data. The Menstrual History entries SHOULD use the codes specified in the Antepartum Menstrual History Value Set. The section code value for the Menstrual History organizer SHALL be '49033-4'. The codeSystem is '2.16.840.1.113883.6.1'. The codeSystemName is 'LOINC'.	R	1.3.6.1.4.1.19376.1.5.3.1.3.18 IHE PCC 2:6.3.3.2.16	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.5
Coded Physical Exam This section SHALL include Coded Vital Signs (1.3.6.1.4.1.19376.1.5.3.1.1.5.3.2) as a subsection.	R	1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.4.30	N/A
History of Surgical Procedures	R2	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.2.44	N/A

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.

440

24

```
445   <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='1.3.6.1.4.1.19376.1.5.3.1.1.16.1.4'/><!--History and Physical-->
        <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.1.1'/><!--Antepartum History and Physical-->
        <id root=' ' extension=' '/>
450     <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'
455       codeSystem='2.16.840.1.113883.5.25' codeSystemName='Confidentiality' />
        <languageCode code='en-US'/>
          :
        <component><structuredBody>
          <component>
460         <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>
465       <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>
470       </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 -->
475         </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1'/>
480           <!-- Required Coded History of Infection Section content -->
            </section>
          </component>
          <component>
            <section>
485           <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.5.3.4'/>
              <!-- Required Pregnancy History Section content -->
            </section>
          </component>
          <component>
490         <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.16'/>
              <!-- Required Coded Social History Section content -->
            </section>
          </component>
495       <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.15'/>
              <!-- Required Coded Family Medical History Section content -->
            </section>
500       </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 content -->
505         </section>
          </component>
          <component>
            <section>
```

25

```
510          <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>
515          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.15'/>
             <!-- Required Physical Examination Section content -->
          </section>
       </component>
       <component>
520        <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.25'/>
             <!-- Conditional Vital Signs Section content -->
          </section>
       </component>
525      <component>
          <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2'/>
             <!-- Required if known History of Surgical Procedures Section content -->
          </section>
530      </component>
     </strucuredBody></component>
   </ClinicalDocument>
```

Figure 6.3.1.A.5-1 Sample Antepartum History and Physical Document

Add section 6.3.1.B

540 ## 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).

540 ### 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

CCD	ASTM/HL7 Continuity of Care Document
CDAR2	HL7 CDA Release 2.0
ACOG AR	American College of Obstetricians and Gynecologists (ACOG), Antepartum Record
LOINC	Logical Observation Identifiers, Names and Codes
SNOMED	Systemized Nomenclature for Medicine
CDTHP	CDA for Common Document Types History and Physical Notes (DSTU)

545 **6.3.1.B.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 2011 Supplement

550

Table 6.3.1.B.4-1. Antepartum Summary Specification

Template Name	Opt	Section Template Id / Location	Value Set Template Id
Allergies and Other Adverse Reactions 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'	R	1.3.6.1.4.1.19376.1.5.3.1.3.13 IHE PCC 2:6.3.3.2.11	
Advance Directives 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 "blood transfusion acceptable?" SHALL be included with the value '(xx-bld-transf-ok)'. The codeSystem is '2.16.840.1.113883.6.1'. The codeSystemName is 'LOINC'	R	1.3.6.1.4.1.19376.1.5.3.1.3.34 IHE PCC 2:6.3.3.6.5	
Care Plan APS forms SHOULD include an observation stating if an anesthesia consult is planned. When present, the observation value for this observation is '(xx-anest-cons-pland)'. 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	R	1.3.6.1.4.1.19376.1.5.3.1.3.31 IHE PCC 2:6.3.3.6.1	

27

Template Name	Opt	Section Template Id / Location	Value Set Template Id
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 | Epidural | Spinal) or a Null flavor to represent unknown or not listed.			
Medications Medications should include start and stop date if known.	R	1.3.6.1.4.1.19376.1.5.3.1.3.19 IHE PCC 2:6.3.3.3.1	
Active Problems Related Plans should be included in the Care Plan section.	R	1.3.6.1.4.1.19376.1.5.3.1.3.6 IHE PCC 2:6.3.3.2.3	
Estimated Delivery Date	R	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.2.28	
Antepartum Visit Summary Flowsheet	R	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.2 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.9.3	
History of Surgical Procedures	R2	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.2.44	
Coded Antenatal Testing and Surveillance	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.5.7	

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
555   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.

560

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

Figure 6.3.1.B.4-1

6.3.1.B.5 Conformance

570   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

575   <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='1.3.6.1.4.1.19376.1.5.3.1.1.11.2'/><!--Antepartum Summary-->
580  <id root=' ' extension=' '/>
       <code code='57055-6' displayName='Antepartum summary'
         codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
       <title>Antepartum Summary</title>
       <effectiveTime value='20080601012005'/>
585  <confidentialityCode code='N' displayName='Normal'
         codeSystem='2.16.840.1.113883.5.25' codeSystemName='Confidentiality' />
       <languageCode code='en-US'/>
           :
       <component><structuredBody>
590     <component>
           <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.13'/>
             <!-- Required Allergies and Other Adverse Reactions Section content -->
           </section>
595     </component>
         <component>
           <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.34'/>
             <!-- Required Advance Directives Section content -->
600        </section>
         </component>
         <component>
           <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.31'/>
605          <!-- Required Care Plan Section content -->
           </section>
         </component>
         <component>
           <section>
610          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.19'/>
             <!-- Required Medications Section content -->
           </section>
         </component>
         <component>
615        <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.6'/>
             <!-- Required Problems Section content -->
           </section>
         </component>
620     <component>
           <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1'/>
             <!-- Required Estimated Delivery Dates Section content -->
           </section>
625     </component>
         <component>
           <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.2'/>
             <!-- Required Antepartum Visit Summary Flowsheet Section content -->
630        </section>
         </component>
         <component>
           <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2'/>
635          <!-- Required History of Surgical Procedures Section content -->
           </section>
         </component>
         <component>
           <section>
640          <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1'/>
```

```
        <!-- Required Coded Antenatal Testing and Surveillance Section content -->
      </section>
    </component>
  </strucuredBody></component>
</ClinicalDocument>
```
645

Figure 6.3.1.B.5-1. Sample Antepartum Summary Document

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

650   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

655   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

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

6.3.1.C.4 Specification

660   **Table 6.3.1.C.4-1. Antepartum Laboratory Specification**

Template Name	Opt	Section Template Id	Value Set Template Id
Laboratory Results The Antepartum Laboratory Value Set should be used to represent laboratory results.	R	N/A	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.7

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

---

31

665 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.

```
670   <ClinicalDocument xmlns='urn:hl7-org:v3'>
        <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/>
        <templateId root='1.3.6.1.4.1.19376.1.3.3'/>
        <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'
675       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' />
680   <languageCode code='en-US'/>
          :
        <component><structuredBody>

        </strucuredBody></component>
685 </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

690 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

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

6.3.1.D.3 Standards

CCD	ASTM/HL7 Continuity of Care Document
CDAR2	HL7 CDA Release 2.0
ACOG AR	American College of Obstetricians and Gynecologists (ACOG), Antepartum Record
LOINC	Logical Observation Identifiers, Names and Codes
SNOMED	Systemized Nomenclature for Medicine
CDTHP	CDA for Common Document Types History and Physical Notes (DSTU)

6.3.1.D.4 Specification

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

Template Name	Opt	Section Template Id	Value Set Template Id
Patient Education 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.	R	1.3.6.1.4.1.19376.1.5.3.1.1.9.38 PCC TF Supplement CDA Content Modules (TI) Vol 2: 6.3.3.6.14	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.8

6.3.1.D.5 Conformance

700   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

705   <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='1.3.6.1.4.1.19376.1.5.3.1.1.1'/><!--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>

  </strucuredBody></component>
</ClinicalDocument>
```

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