

HITSP Antepartum Record Component

HITSP/C161



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1.0 INTRODUCTION

1.1 OVERVIEW

The Healthcare Information Technology Standards Panel (HITSP) Antepartum Record Component contains information of the antepartum care of a mother and fetus(es). It can include such information as the patient history and physical examinations, evaluations, laboratory studies and plans of care. This Component supports this information via antepartum record documents and an Antepartum Summary document.

The Antepartum Summary represents a summary of the most critical information to an antepartum care provider regarding the status of a patient's pregnancy. The APS document is a medical summary and inherits all header constraints from Medical Summaries. The Harmonization Requests for this document are described fully in the [APS Profile](#).

1.2 COPYRIGHT PERMISSIONS

COPYRIGHT NOTICE

© 2010 ANSI. This material may be copied without permission from ANSI only if and to the extent that the text is not altered in any fashion and ANSI's copyright is clearly noted.

IHE materials used in this document have been extracted from relevant copyrighted materials with permission of Integrating the Healthcare Enterprise (IHE) International. Copies of this standard may be retrieved from the [IHE Web Site](#).

1.3 REFERENCE DOCUMENTS

A list of key reference documents and background material is provided in the table below. HITSP-maintained reference documents can be retrieved from the [HITSP Web Site](#).

Table 1-1 Reference Documents

Reference Document	Document Description
HITSP Acronyms List	Lists and defines the acronyms used in this document
HITSP Glossary	Provides definitions for relevant terms used by HITSP documents
TN900 - Security and Privacy	TN900 is a reference document that provides the overall context for use of the HITSP Security and Privacy constructs
TN901 - Clinical Documents	TN901 is a reference document to provide the overall context for use of the HITSP Care Management and Health Records constructs
TN903 - Data Architecture	TN903 is a reference document that provides the overall context for use of the HITSP Data Architecture constructs

1.4 CONFORMANCE

This section describes the conformance criteria, which are objective statements of requirements that can be used to determine if a specific behavior, function, interface, or code set has been implemented correctly.

1.4.1 CONFORMANCE CRITERIA

In order to claim conformance to this construct specification, an implementation must satisfy all the requirements and mandatory statements listed in this specification, the associated HITSP Interoperability Specification or Capability, its associated construct specifications, as well as conformance criteria from the selected base and composite standards. A conformant system must also implement all of the required



interfaces within the scope, subset or implementation option that is selected from the associated Interoperability Specification.

Claims of conformance may only be made for the overall HITSP Interoperability Specification or Capability with which this construct is associated.

1.4.2 CONFORMANCE SCOPING, SUBSETTING AND OPTIONS

A HITSP Interoperability Specification or Capability must be implemented in its entirety for an implementation to claim conformance to the specification. HITSP may define the permissibility for interface scoping, subsetting or implementation options by which the specification may be implemented in a limited manner. Such scoping, subsetting and options may extend to associated constructs, such as this construct. This construct must implement all requirements within the selected scope, subset or options as defined in the associated Interoperability Specification or Capability to claim conformance.



2.0 COMPONENT DEFINITION

2.1 CONTEXT OVERVIEW

The Antepartum Record Profile (APR) is a collection of folders and documents based on data elements from prenatal records currently in common use. The APR groups summary documents for key relevant areas of interest and concern in monitoring and evaluating prenatal care. The Antepartum Summary (APS) represents a summary of the most critical information to an antepartum care provider regarding the status of a patient's pregnancy. The APS document is a medical summary and inherits all header constraints from Medical Summaries. Harmonization Requests for this document are described fully in the [APS Profile](#).

This Harmonization Request reflects the typical course of care during an uncomplicated pregnancy, and includes the initial prenatal history and physical examination, and the flow sheet recorded during the course of the pregnancy detailing the growth of the fetus, tests and procedures done to evaluate the health of the mother and fetus, and documentation of educational discussions. These records form the basis for an informed evaluation and treatment of the mother upon admission to the birthing facility.

The information collected during the patient's prenatal visits make up the components which are included in the patient's Antepartum Record.

The Antepartum Record Profile extends the description of the content structures for the Antepartum Summary, and is based on the data elements from prenatal records currently in common use. The Antepartum Record includes the following documents and/or folders:

- Antepartum Summary (APS) - A summary of the most critical information to an antepartum care provider regarding the status of a patients pregnancy
- Antepartum History & Physical (APHP) - The initial assessment and physical examination
- Antepartum Laboratory (APL) - Laboratory and Imaging Evaluations and Reports
- Antepartum Education (APE) - Education Record

Additional commonly used forms not included in this profile are patient-generated obstetric medical history.

2.1.1 COMPONENT CONSTRAINTS

Table 2-1 Component Constraints

Constraint
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 the Medical Summary, it is also not typical. APS documents may be published at the end of each visit. Subsequent updates with a pregnancy SHALL be represented as document replacement by including a <relatedDocument typeCode='REPL'> element

2.1.2 COMPONENT DEPENDENCIES

Table 2-2 Component Dependencies

HITSP Component	Depends On (Name of standard/HITSP Component that it depends on)	Dependency Type (Pre-condition, Post-condition, General)	Purpose (Reason for this dependency)
HITSP/C161 - Antepartum Record (APR)	HITSP/C83-CDA Content Modules	General	Defines the content modules



2.2 RULES FOR IMPLEMENTING

2.2.1 DATA MAPPING

C161-[CT1-1] Implementations of this Component **SHALL** support the Integrating the Healthcare Enterprise (IHE) Patient Care Coordination (PCC) Technical Framework Supplement, Antepartum Record, Draft for Trial Implementation, August 22, 2008 as well as the HITSP constraints defined in Table 2-3 through Table 2-7.

2.2.1.1 ANTEPARTUM RECORD (APR)

The following table defines the HITSP constraints for the record. In no case are the HITSP constraints below less strict than those defined by IHE.

The template identifier for this is 2.16.840.1.113883.3.88.11.161.1

C161-[CT1-2] A CDA Document **SHALL** declare conformance to one of the HITSP documents, by including a <templateId> element with the root attribute one of the following values:
2.16.840.1.113883.3.88.11.161.2, 2.16.840.1.113883.3.88.11.161.3,
2.16.840.1.113883.3.88.11.161.4, 2.16.840.1.113883.3.88.11.161.5

C161-[CT1-3] The CDA document **SHALL** declare conformance to one of the IHE Antepartum documents, by including a <templateId> containing one of the following values:
1.3.6.1.4.1.19376.1.5.3.1.1.16, 1.3.6.1.4.1.19376.1.5.3.1.1.11.2,
1.3.6.1.4.1.19376.1.5.3.1.1.16.1.1, 1.3.6.1.4.1.19376.1.5.3.1.1.16.1.2,
1.3.6.1.4.1.19376.1.5.3.1.1.16.1.3

Table 2-3 IHE Antepartum Record Components Template IDs

Document Name	IHE Template ID
Antepartum Record (APR)	1.3.6.1.4.1.19376.1.5.3.1.1.16
Antepartum Summary (APS)	1.3.6.1.4.1.19376.1.5.3.1.1.11.2
Antepartum History and Physical (APHP)	1.3.6.1.4.1.19376.1.5.3.1.1.16.1.1
Antepartum Laboratory (APL)	1.3.6.1.4.1.19376.1.5.3.1.1.16.1.2
Antepartum Education (APE)	1.3.6.1.4.1.19376.1.5.3.1.1.16.1.3

2.2.1.2 ANTEPARTUM SUMMARY (APS)

The following table defines the HITSP constraints for an Antepartum Summary. In no case are the HITSP constraints below less strict than those defined by IHE.

The template identifier for this is 2.16.840.1.113883.3.88.11.161.2

Table 2-4 Antepartum Summary Content Modules

Constraint ID	Content Module	HITSP Optional Entry	HITSP Repeatable Entry	Specification Reference
C161-[CT2—1]	Active Problems	R	N	See HITSP/C83 Section 2.2.1.3 Active Problems
C161-[CT2—2]	Admission Medications	R2	N	See HITSP/C83 Section 2.2.1.13 Admission Medications
C161-[CT2—3]	Admitting Diagnosis	R	N	See HITSP/C83 Section 2.2.1.10 Hospital Admission Diagnosis
C161-[CT2—4]	Advance Directives	O	N	See HITSP/C83 Section 2.2.1.16 Advance Directives
C161-[CT2—5]	Coded Advanced Directives	R	N	See HITSP/C83 Section 2.2.1.16 Advanced Directives
C161-[CT2—6]	Allergies	R	N	See HITSP/C83 Section 2.2.1.2 Allergies and Other Adverse Reactions
C161-[CT2—7]	Antepartum Visit Summary Flowsheet	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.2
C161-[CT2—8]	Pregnancy History	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.5.3.4



Constraint ID	Content Module	HITSP Optional Entry	HITSP Repeatable Entry	Specification Reference
C161-[CT2—9]	Coded History of Infection	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1
C161-[CT2—10]	Prenatal Events	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.2
C161-[CT2—11]	Estimated Delivery Dates	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1
C161-[CT2—12]	Discharge Diagnosis	R	N	See HITSP/C83 Section 2.2.1.11 Discharge Diagnosis
C161-[CT2—13]	Discharge Diet	O	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.3.33
C161-[CT2—14]	Discharge Meds	R	N	See HITSP/C83 Section 2.2.1.14 Hospital Discharge Medications
C161-[CT2—15]	Discharge Procedures, Tests, Reports	O	N	See HITSP/C83 Section 2.2.1.22 Diagnostic Results
C161-[CT2—16]	Functional Status	O	N	See HITSP/C83 Section 2.2.1.9 Functional Status
C161-[CT2—17]	History of Present Illness	R2	N	See HITSP/C83 Section 2.2.1.7 History of Present Illness
C161-[CT2—18]	Hospital Course	R	N	See HITSP/C83 Section 2.2.1.21 Hospital Course
C161-[CT2—19]	Medical Equipment	R2	N	See HITSP/C83 Section 2.2.1.28 Medical Equipment
C161-[CT2—20]	Person Information	R	N	See HITSP/C83 Section 2.2.2.1 Person Information
C161-[CT2—21]	Physical Examination	O	N	See HITSP/C83 Section 2.2.1.18 Physical Examination
C161-[CT2—22]	Plan of Care	R	N	See HITSP/C83 Section 2.2.1.24 Plan of Care
C161-[CT2—23]	Resolved Problems	R	N	See HITSP/C83 Section 2.2.1.4 History of Past Illness
C161-[CT2—24]	Review of Systems	O	N	See HITSP/C83 Section 2.2.1.20 Review of Systems
C161-[CT2—25]	Selected Medications Administered	R2	N	See HITSP/C83 Section 2.2.1.15 Medications Administered
C161-[CT2—26]	Vital Signs	R2	N	See HITSP/C83 Section 2.2.1.19 Vital Signs

Optionality Legend: “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional.
Repeatable = “Y” for Yes, “N” for No

2.2.1.3 ANTEPARTUM HISTORY AND PHYSICAL (APHP)

The following table defines the HITSP constraints for an Antepartum History and Physical. In no case are the HITSP constraints below less strict than those defined by IHE.

The template identifier for this 2.16.840.1.113883.3.88.11.161.3

Table 2-5 Antepartum History and Physical Content Modules

Constraint ID	Content Module	HITSP Optional Entry	HITSP Repeatable Entry	Specification Reference
C161-[CT3—1]	Active Problems	R	N	See HITSP/C83 Section 2.2.1.3 Active Problems



Constraint ID	Content Module	HITSP Optional Entry	HITSP Repeatable Entry	Specification Reference
C161-[CT3—2]	Admission Medications	R2	N	See HITSP/C83 Section 2.2.1.13 Admission Medications
C161-[CT3—3]	Admitting Diagnosis	R	N	See HITSP/C83 Section 2.2.1.10 Hospital Admission Diagnosis
C161-[CT3—4]	Advance Directives	O	N	See HITSP/C83 Section 2.2.1.16 Advance Directives
C161-[CT3—5]	Coded Advanced Directives	R	N	See HITSP/C83 Section 2.2.1.16 Advanced Directives
C161-[CT3—6]	Allergies	R	N	See HITSP/C83 Section 2.2.1.2 Allergies and Other Adverse Reactions
C161-[CT3—7]	Antepartum Visit Summary Flowsheet	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.2
C161-[CT3—8]	Pregnancy History	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.5.3.4
C161-[CT3—9]	Coded History of Infection	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1
C161-[CT3—10]	Prenatal Events	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.21.2.2
C161-[CT3—11]	Estimated Delivery Dates	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1
C161-[CT3—12]	Discharge Diagnosis	R	N	See HITSP/C83 Section 2.2.1.11 Discharge Diagnosis
C161-[CT3—13]	Discharge Diet	O	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.3.33
C161-[CT3—14]	Discharge Meds	R	N	See HITSP/C83 Section 2.2.1.14 Hospital Discharge Medications
C161-[CT3—15]	Discharge Procedures, Tests, Reports	O	N	See HITSP/C83 Section 2.2.1.22 Diagnostic Results
C161-[CT3—16]	Functional Status	O	N	See HITSP/C83 Section 2.2.1.9 Functional Status
C161-[CT3—17]	History of Present Illness	R2	N	See HITSP/C83 Section 2.2.1.7 History of Present Illness
C161-[CT3—18]	Hospital Course	R	N	See HITSP/C83 Section 2.2.1.21 Hospital Course
C161-[CT3—19]	Medical Equipment	R2	N	See HITSP/C83 Section 2.2.1.28 Medical Equipment
C161-[CT3—20]	Person Information	R	N	See HITSP/C83 Section 2.2.2.1 Person Information
C161-[CT3—21]	Physical Examination	O	N	See HITSP/C83 Section 2.2.1.18 Physical Examination
C161-[CT3—22]	Plan of Care	R	N	See HITSP/C83 Section 2.2.1.24 Plan of Care
C161-[CT3—23]	Resolved Problems	R	N	See HITSP/C83 Section 2.2.1.4 History of Past Illness
C161-[CT3—24]	Review of Systems	R	N	See HITSP/C83 Section 2.2.1.20 Review of Systems
C161-[CT3—25]	Selected Medications Administered	R2	N	See HITSP/C83 Section 2.2.1.15 Medications Administered
C161-[CT3—26]	Vital Signs	R2	N	See HITSP/C83 Section 2.2.1.19 Vital Signs

Optionality Legend: “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional.
Repeatable = “Y” for Yes, “N” for No



2.2.1.4 ANTEPARTUM LABORATORY (APL)

The following table defines the HITSP constraints for an Antepartum Laboratory summary. In no case are the HITSP constraints below less strict than those defined by IHE.

The template identifier for this is 2.16.840.1.113883.3.88.11.161.4

Table 2-6 Antepartum Laboratory Content Modules

Constraint ID	Content Module	HITSP Optional Entry	HITSP Repeatable Entry	Specification Reference
C161-[CT4—1]	Person Information	R	N	See HITSP/C83 Section 2.2.2.1 Person Information
C161-[CT4—2]	Results	R	N	See HITSP/C83 Section 2.2.2.15 Results

Optionality Legend: “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional.
Repeatable = “Y” for Yes, “N” for No

2.2.1.5 ANTEPARTUM EDUCATION (AES)

The following table defines the HITSP constraints for an Antepartum Education Summary. In no case are the HITSP constraints below less strict than those defined by IHE. The Antepartum Education document contains a list of patient education activities that have occurred, or have been planned to review with the patient.

The template identifier for this is 2.16.840.1.113883.3.88.11.161.5

Table 2-7 Antepartum Education Content Modules

Constraint ID	Content Module	HITSP Optional Entry	HITSP Repeatable Entry	Specification Reference
C161-[CT5—1]	Person Information	R	N	See HITSP/C83 Section 2.2.2.1 Person Information
C161-[CT5—2]	Coded Patient Education and Consents	R	N	IHE templateId 1.3.6.1.4.1.19376.1.5.3.1.1.9.39

Optionality Legend: “R” for Required, “R2” for Required if Known or “O” for Optional, or “C” for Conditional.
Repeatable = “Y” for Yes, “N” for No

2.2.2 GUIDELINES AND EXAMPLES

The text for the IHE PCC-TF example begins here:

Guidelines

- The Antepartum Record is intended as a collection of medical summaries with focused scope that can be used to fulfill a number of collaborative transfers of care

The information collected during the course of pregnancy is very important to delivery of care for both mother and fetus.

The Antepartum Summary represents a summary of the most critical information to an antepartum care provider regarding the status of a patient's pregnancy. The APS document is a medical summary and inherits all header constraints from Medical Summaries. The Harmonization Request for this document is described fully in the APS Profile in PCC TF-1.

Examples of LDR Content Folders may be found via the following links.

- Antepartum History and Physical: <http://wiki.ihe.net/index.php?title=1.3.6.1.4.1.19376.1.5.3.1.1.16.1.1>
- Antepartum Summary: <http://wiki.ihe.net/index.php?title=1.3.6.1.4.1.19376.1.5.3.1.1.11.2>
- Antepartum Laboratory Report: <http://wiki.ihe.net/index.php?title=1.3.6.1.4.1.19376.1.5.3.1.1.16.1.2>



- Antepartum Education: <http://wiki.ihe.net/index.php?title=1.3.6.1.4.1.19376.1.5.3.1.1.16.1.3>

The text for the IHE PCC-TF example ends here.

2.3 STANDARDS

2.3.1 REGULATORY GUIDANCE

Table 2-8 Regulatory Guidance

Regulation	Description
No applicable regulatory guidance	

2.3.2 SELECTED STANDARDS

Table 2-9 Selected Standards

Standard	Description
Health Level Seven (HL7) HL7 Version 3 Standard: Clinical Document Architecture (CDA), Release 2	The HL7 Clinical Document Architecture is an XML-based document markup standard that specifies the structure and semantics of clinical documents for the purpose of exchange. CDA is one instantiation of HL7's Version 3.0 Reference Information Model (RIM) into a specific message format. Of particular focus for HITSP Interoperability Specifications are message formats for Laboratory Results and Continuity of Care (CCD) documents. Release 2 of the HL7 Clinical Document Architecture (CDA) is an extension to the original CDA document markup standard that specifies the structure and semantics of clinical documents for the purpose of exchange. CDA R2 includes a prose document in HTML, XML schemas, data dictionary, and sample CDA documents. CDA R2 further builds upon other HL7 standards beyond just the Version 3.0 Reference Information Model (RIM) and incorporates Version 3.0 Data Structures, Vocabulary, and the XML Implementation Technology Specifications for Data Types and Structures. For more information visit www.hl7.org
Integrating the Healthcare Enterprise (IHE) Patient Care Coordination (PCC), Technical Framework Supplement, Antepartum Record, Draft for Trial Implementation, August 22, 2008	The IHE Patient Care Coordination Technical Framework (PCC TF) defines specific implementations (called Integration Profiles) of established standards to deal with integration issues that cross providers, patient problems or time. The Antepartum Record Profile (APR) is collection of folders of documents based on data elements from prenatal records currently in common use. APR groups summary documents for key relevant areas of interest and concern in monitoring and evaluating prenatal care. For more information visit http://www.ihe.net/

2.3.3 INFORMATIVE REFERENCE STANDARDS

Table 2-10 Informative Reference Standards

Standard	Reason for Use
No applicable informative standard	



3.0 APPENDIX

The following sections include relevant materials referenced throughout this document:

Template Identifiers

See the relevant HL7 Implementation Guides and IHE Profiles for a complete listing of all other template identifiers that are required for declaring conformance to HITSP defined templates.

- 2.16.840.1.113883.3.88.11.161.1HITSP/C161 Antepartum Record
- 2.16.840.1.113883.3.88.11.161.52HITSP/C161 Antepartum Summary
- 2.16.840.1.113883.3.88.11.161.3HITSP/C161 Antepartum History and Physical
- 2.16.840.1.113883.3.88.11.161.4HITSP/C161 Antepartum Laboratory
- 2.16.840.1.113883.3.88.11.161.5HITSP/C161 Antepartum Education



4.0 DOCUMENT UPDATES

This section provides the history of changes made to this document.

4.1 NOVEMBER 9, 2009

No changes. This is the first published version of the document.

4.2 JANUARY 18, 2010

- Replaced the IHE OIDs with a HITSP OIDs for the Template identifier and added constraint to the HITSP OID
- Added constraints C161-[CT1-2] and C161-[CT1-3] to clarify conformance to HITSP and IHE document template OIDs

4.3 JANUARY 25, 2010

Upon approval by the HITSP Panel on January 25, 2010, this document is now Released for Implementation.

