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IHE Patient Care Coordination (PCC)

Technical Framework Supplement

10

Labor and Delivery Profiles

Public Comment

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Date: June 01, 2010

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Foreword

20 This page is standard language for all IHE supplements. The Introduction section following will list all other IHE documents that are modified by this supplement. This document is a supplement to the IHE Patient Care Coordination Technical Framework V5.0. The technical framework can be found at http://www.ihe.net/Technical_Framework/index.cfm#pcc.

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

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

30 | Replace Section X.X by the following: |

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

This format means the reader has to integrate the base documents and the supplement. When the material in the supplement is considered ready for incorporation into the final text of the Technical

35 Framework, the IHE committees will update the technical framework documents with the final text. Supplements are written in this format to avoid duplication material. This means that two IHE documents (one possibly final text, and the other a supplement) should not contain contradictory material.

Text in this document is not considered final for the Technical Framework. It becomes Final Text

40 only after the IHE Patient Care Coordination Technical Committee ballots the supplement (after testing) and agrees that the material is ready for integration with the existing Technical Framework documents.

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

45 **Comments on this supplement may be submitted http://forums.rsna.org:**
1. Select the "IHE" forum
2. Select Patient Care Coordination Technical Framework
3. Select 2010 Supplements for Public Comment
4. Select Labor and Delivery Profiles

50

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

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

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

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

60 ## __TABLE OF CONTENTS__

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Introduction

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

1. [PCC Technical Framework Volume 1, Revision 5.0](#)

2. [PCC Technical Framework Volume 2, Revision 5.0](#)

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

1. [IT Infrastructure Technical Framework Volume 1, Revision 6.0](#)

2. [IT Infrastructure Technical Framework Volume 2, Revision 6.0](#)

3. [IT Infrastructure Technical Framework Volume 3, Revision 6.0](#)

4. [The Patient Identifier Cross-Reference (PIX) and Patient Demographic Query (PDQ)
   HL7 v3 Supplement to the IT Infrastructure Technical Framework.](#)

5. HL7 and other standards documents referenced in Volume 1 and Volume 2

6. Dilbert 2.0: 20 Years of Dilbert by Scott Adams, ISBN-10: 0740777351, ISBN-13: 978-
   0740777356

How to read the Labor and Delivery Profiles supplement

This supplement contains 3 content profiles – Labor and Delivery History and Physical (LDHP),
Labor and Delivery Summary (LDS), and Maternal Discharge Summary (MDS). Labor and
Delivery Record (LDR) 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).

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

3. **PCC Technical Framework Volume 2, Revision 5.0 (published August 2008):** This contains all PCC Section Templates, Entry Templates and Value Sets (among other things) that ARE in Final Text.

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How to Access the Reference Material

To access Perinatal Workflow and Content Modules supplements refer to the same web page from which you accessed this supplement. In the event that has left your memory please follow these instructions:

- Navigate to http://www.ihe.net
- Click "Get Involved" on the top menu
- Select "Public Comment"
- Click the "Patient Care Coordination" link

To access the PCC Technical Framework Volume 2 Revision 5.0 follow this link:
http://www.ihe.net/Technical_Framework/upload/IHE_PCC_TF_50_Vol_2_2009-08-10.pdf

Open Issues and Questions

140   1) How should grouping be handled for sections that are reused from other profiles? For example several APHP sections are reused in LDHP and this should be called out somewhere, probably in the grouping section, but existing profiles use of the groupings section is not clear or consistent so a new table format should be explored. This could also be put in an appendix since it applies to several related profiles.

145   2) In sections X.7, Y.7, Z.7 (mappings to PCC Templates) the orgin of the groups of data elements needs to be called out to show that these data did in fact originate from some sort of standard or at the very least clinical consensus within PCC committee.

Closed Issues

150

Volume 1 – Profiles

155

> *Add the following to section 1.1.5*

1.1.5 Copyright Permissions

> *Add the following to section 2.5*

2.5 Dependencies of the PCC Integration Profiles

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

160

> *Add the following to section 2.7*

2.7 History of Annual Changes

> *Add Section X*

_____

165 X Labor and Delivery History and Physical Content Profile (LDHP)

Labor and Delivery History and Physical is a content profile that defines the structure of the data
that is often collected during the initial admission to the birthing facility. It includes, but is not
limited to demographics, histories, allergies, physical examinations, vital signs, and care plans.

X.1 Purpose and Scope

170 The information collected during labor, delivery and the immediate postpartum period is very
important to follow-up care for both mother and infant, whether the follow-up care is provided in
an inpatient or outpatient facility. A physician's recommendation for a follow-up hematocrit test
or evaluation of the incision in the office may be noted in the Labor and Delivery Summary or in
the Maternal Discharge Summary. These documents must be available in both inpatient and
175 outpatient settings.

Pertinent maternal information includes, but is not limited to, delivery type; labor type;
anesthesia type; labor, delivery and postpartum complications; and specific maternal information
such as medications, laboratory test results, allergies and plans for contraception. Pertinent
neonatal information includes, but is not limited to, delivery method, gender, birth time, birth
180 weight, gestational age at delivery, APGAR scores, and medications received in the delivery
room including immunizations.

X.2 Process Flow

X.2.1 Use Cases

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

185 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.

X.3 Actors/Transactions

190 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
195 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

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appropriate IHE profiles described in the section on Content Bindings with XDS, XDM and
XDR. in PCC TF_2:4.1

200

Figure X.3-1 Actor Diagram

X.3.1 Requirements of Actors

X.4 Options

205 **Table X.4-1 Labor and Delivery History and Phyiscal Options**

Actor	Option	Section
Content Consumer	View Option (See Note 1)	PCC TF-2: 3.0.1
	Document Import Option (See Note 1) Section Import Option (See Note 1) Discrete Data Import Option (See Note 1)	PCC TF-2: 3.0.2 PCC TF-2: 3.0.3 PCC TF-2: 3.0.4
Content Creator	No options defined	

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

X.5 Groupings

Groupings are needed to represent which templates are required from other content profiles and
will be added in future work.

210 ## X.6 Security Considerations

X.7 Content Modules

Table X.7-1 Labor and Delivery History and Physical Content Modules

Datum	PCC Template Name	PCC Template Id

Datum	PCC Template Name	PCC Template Id
Demographics	Header Modules (See Note 1)	N/A
Chief Complaint	Chief Complaint (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1
Pregnancy History	Pregnancy History (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.1.5.3.4
Medical History	History of Past Illness (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.3.8
Medical History – Tobacco, Alcohol, Drugs	Coded Social History (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.3.16.1
Medical History – Relevant Family History	Coded Family Medical History (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.3.15
Medications	Medications (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.3.19
Allergies	Allergies and Other Adverse Reactions (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.3.13
Menstrual History/Symptoms Since LMP	Review of Systems (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.3.18
Genetic Screening/Teratology Counseling	Coded Family History Medical History (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.3.15
Infection History	Coded History of Infection (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1
Initial Phyiscal Examination	Coded Physical Exam (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1
Vital Signs	Coded Vital Signs (See Note 1)	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

Datum	PCC Template Name	PCC Template Id
	(See Note 1)	
Surgical History	History of Surgical Procedures (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2
Prenatal Events	Prenatal Events	1.3.6.1.4.1.19376.1.5.3..1.1.21.2.2
Estimated Delivery Date	Estimated Delivery Date	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1
Care Plan	Care Plan	1.3.6.1.4.1.19376.1.5.3.1.3.31
Admission Medication History	Admission Medication History	1.3.6.1.4.1.19376.1.5.3.1.3.20

Note 1: This template is part of Antepartum History and Physical

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X.8 References

This profile contains different summaries based on data elements collected from different forms originating from various organizations in the United States and Europe. The generic forms used to build this profile are:

220
- Demographic information about the mother, the father and the child
- General information about the family
- Admission Assessment for Labor and Delivery
- Transport Summary during pregnancy (if any)
- Antepartum Summary
225
- Labor & Delivery Summary (combined with the Newborn Birth Summary while in the birth room)
- Maternal Discharge Summary

These forms and data elements were collected with the assistance of the following organizations:

230

ACOGAR	American College of Obstretricians and Gynecologists (ACOG), Antepartum Record
AUDIPOG	Association des Utilisateurs de Dossiers Informatisés en Périnatalogie, Obstétrique et Gynécologie
Dossier obstétrical	Fédération suisse des sages-femmes 2008

UHIN	Utah Health Information Network
IH	Intermountain Healthcare

Y Labor and Delivery Summary Content Profile (LDS)

Labor and Delivery Summary is a content profile that defines the structure of the data that is often collected during the labor and delivery period at the birthing facility. It includes, but is not limited to demographics, histories, allergies, physical examinations, vital signs, and newborn delivery information.

Y.1 Purpose and Scope

The information collected during labor, delivery, and the immediate postpartum period is very important to follow-up care for both mother and infant whether the follow-up care is provided in an inpatient or outpatient facility. A physician's recommendation for a follow-up hematocrit test or evaluation of the incision in the office may be noted in the Labor and Delivery Summary or in the Maternal Discharge Summary. These documents must be available in both inpatient and outpatient settings.

Pertinent maternal information includes, but is not limited to, delivery type; labor type; anesthesia type; labor, delivery and postpartum complications; and specific maternal information such as medications, laboratory test results, allergies, and plans for contraception. Pertinent neonatal information includes, but is not limited to, delivery method, gender, birth time, birth weight, gestational age at delivery, APGAR scores, and medications received in the delivery room including immunizations.

Y.2 Process Flow

Y.2.1 Use Cases

Change referenced section numbering when merged into technical framework

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

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

265 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 Y.3-1 Actor Diagram

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Y.3.1 Requirements of Actors

Y.4 Options

Table Y.4-1 Labor and Delivery Summary Options

Actor	Option	Section
Content Consumer	View Option (See Note 1)	PCC TF-2: 3.0.1
	Document Import Option (See Note 1) Section Import Option (See Note 1) Discrete Data Import Option (See Note 1)	PCC TF-2: 3.0.2 PCC TF-2: 3.0.3 PCC TF-2: 3.0.4
Content Creator	No options defined	

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

275 ## Y.5 Groupings

Groupings are needed to represent which templates are required from other content profiles and will be added in future work.

Y.6 Security Considerations

Y.7 Content Modules

280

Table Y.7-1 Labor and Delivery Summary Content Modules

Data Element	PCC Template Name	PCC Template Id
Demographics	Header Modules (See Note 1)	N/A
	Hospital Admission Diagnosis	1.3.6.1.4.1.19376.1.5.3.1.3.3
	Admission Medication History	1.3.6.1.4.1.19376.1.5.3.1.3.20
	Chief Complaint	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1
	Transport Mode	1.3.6.1.4.1.19376.1.5.3.1.1.10.3.2
	Assessment and Plan	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.5
	Coded Results	1.3.6.1.4.1.19376.1.5.3.1.3.28
	History of Present Illness	1.3.6.1.4.1.19376.1.5.3.1.3.4
	History of Past Illness	1.3.6.1.4.1.19376.1.5.3.1.3.8
	Coded Advance Directives	1.3.6.1.4.1.19376.1.5.3.1.3.35
	Birth Plan	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.1
	Allergies and Other Adverse Reactions	1.3.6.1.4.1.19376.1.5.3.1.3.13
	Coded Physical Exam	1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1
	Estimated Delivery Date (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1
	Medications Administered	1.3.6.1.4.1.19376.1.5.3.1.3.21
	Intravenous Fluids Administered	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.6

15

Data Element	PCC Template Name	PCC Template Id
	History of Surgical Procedures	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2
	Labor and Delivery Events	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.3
	Newborn Delivery Information	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.4
	Estimated Blood Loss	1.3.6.1.4.1.19376.1.5.3.1.1.9.2
	Coded Antenatal Testing and Surveillance	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1
	Pain Scale Assessment	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2

Note 1: This template is part of Labor and Delivery History and Physical

Y.8 References

285   This profile contains different summaries based on data elements collected from different forms
originating from various organizations in the United States and Europe. The generic forms used
to build this profile are:

- Demographic information about the mother, the father and the child
- General information about the family

290
- Admission Assessment for Labor and Delivery
- Transport Summary during pregnancy (if any)
- Antepartum Summary
- Labor & Delivery Summary (combined with the Newborn Birth Summary while in the birth room)

295
- Maternal Discharge Summary

These forms and data elements were collected with the assistance of the following organizations:

ACOGAR	American College of Obstretricians and Gynecologists (ACOG), Antepartum Record
AUDIPOG	Association des Utilisateurs de Dossiers Informatisés en Périnatalogie, Obstétrique et Gynécologie

Dossier obstétrical	Fédération suisse des sages-femmes 2008
UHIN	Utah Health Information Network
IH	Intermountain Healthcare

300   # Z Maternal Discharge Summary Content Profile (MDS)

Maternal Discharge Summary is a content profile that defines the structure of the data that is
often collected post delivery until discharge from the birthing facility. It includes, but is not
limited to demographics, medications, laboratory results, newborn delivery information, patient
education, and outcomes.

305   ## Z.1 Purpose and Scope

The information collected during labor, delivery, and the immediate postpartum period is very
important to follow-up care for both mother and infant whether the follow-up care is provided in
an inpatient or outpatient facility. A physician's recommendation for a follow-up hematocrit test
or evaluation of the incision in the office may be noted in the Labor and Delivery Summary or in
310   the Maternal Discharge Summary. These documents must be available in both inpatient and
outpatient settings.

Pertinent maternal information includes, but is not limited to, delivery type; labor type;
anesthesia type; labor, delivery and postpartum complications; and specific maternal information
such as medications, laboratory test results, allergies, and plans for contraception. Pertinent
315   neonatal information includes, but is not limited to, delivery method, gender, birth time, birth
weight, gestational age at delivery, APGAR scores, and medications received in the delivery
room including immunizations.

Z.2 Process Flow

Z.2.1 Use Cases

320   *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
For applicable diagrams see Perinatal Workflow section X.2.2.

325   ## 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
330   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

335

Figure Z.3-1 Actor Diagram

Z.3.1 Requirements of Actors

340 ## Z.4 Options

Table Z.4-1 Maternal Discharge Summary Options

Actor	Option	Section
Content Consumer	View Option (See Note 1)	PCC TF-2: 3.0.1
	Document Import Option (See Note 1) Section Import Option (See Note 1) Discrete Data Import Option (See Note 1)	PCC TF-2: 3.0.2 PCC TF-2: 3.0.3 PCC TF-2: 3.0.4
Content Creator	No options defined	

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

Z.5 Groupings

Groupings are needed to represent which templates are required from other content profiles and
345   will be added in future work.

Z.6 Security Considerations

Z.7 Content Modules

Table Z.7-1 Maternal Discharge Summary Content Modules

Data Element	PCC Template Name	PCC Template Id
Demographics	Header Modules (See Note 1)	
	Hospital Course	1.3.6.1.4.1.19376.1.5.3.1.3.5
	Coded Advance Directives (See Note 1)	1.3.6.1.4.1.19376.1.5.3.1.3.35
	Discharge Diagnosis	1.3.6.1.4.1.19376.1.5.3.1.3.7
	Hospital Discharge Medications	1.3.6.1.4.1.19376.1.5.3.1.3.22
	Coded Results	1.3.6.1.4.1.19376.1.5.3.1.3.28
	Coded Hospital Studies Summary	1.3.6.1.4.1.19376.1.5.3.1.3.30
	Pain Scale Assessment	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2
	Braden Score	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.3
	Problems	1.3.6.1.4.1.19376.1.5.3.1.3.6
	Post-partum Treatment	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.7
	Intravenous Fluids Administered	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.6
	Estimated Blood Loss	1.3.6.1.4.1.19376.1.5.3.1.1.9.2
	Transfusion History	1.3.6.1.4.1.19376.1.5.3.1.1.9.12
	Patient Education	1.3.6.1.4.1.19376.1.5.3.1.1.9.38
	Newborn Status at Maternal Discharge	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.8
	Event Outcomes	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9

350   Note 1: This template is part of Labor and Delivery Summary

Z.8 References

This profile contains different summaries based on data elements collected from different forms
originating from various organizations in the United States and Europe. The generic forms used
to build this profile are:

355   • Demographic information about the mother, the father and the child

        • General information about the family

        • Admission Assessment for Labor and Delivery

        • Transport Summary during pregnancy (if any)

        • Antepartum Summary

360   • Labor & Delivery Summary (combined with the Newborn Birth Summary while in
          the birth room)

        • Maternal Discharge Summary

These forms and data elements were collected with the assistance of the following organizations:

365

ACOGAR	American College of Obstretricians and Gynecologists (ACOG), Antepartum Record
AUDIPOG	Association des Utilisateurs de Dossiers Informatisés en Périnatalogie, Obstétrique et Gynécologie
Dossier obstétrical	Fédération suisse des sages-femmes 2008
UHIN	Utah Health Information Network
IH	Intermountain Healthcare

Volume 2 – Transactions and Content Modules

370 # 5.0 Namespaces and Vocabularies

codeSystem	codeSystemName	Description

5.1 IHE Format Codes

Profile	Format Code	Media Type	Template ID
Labor and Delivery History and Physical (LDHP)	urn:ihe:pcc:ldhp:2009	text/xml	1.3.6.1.4.1.19376.1.5.3.1.1.21.1.1
Labor and Delivery Summary (LDS)	urn:ihe:pcc:lds:2009	text/xml	1.3.6.1.4.1.19376.1.5.3.1.1.21.1.2
Maternal Discharge Summary (MDS)	urn:ihe:pcc:mds:2009	text/xml	1.3.6.1.4.1.19376.1.5.3.1.1.21.1.3

375 # 6 PCC Content Modules

6.2 Folder Content Modules

See Perinatal Workflow section 6.2.L.

6.3 HL7 Version 3.0 Content Modules

6.3.1 CDA Document Content Modules

380 *Add section 6.3.1.A*

6.3.1.A Labor and Delivery History and Physical 1.3.6.1.4.1.19376.1.5.3.1.1.21.1.1

The Labor and Delivery History and Physical (LDHP) content profile represents the patient's
history and physical performed during admission to the birthing facility. The LDHP is a Medical
Summary and inherits all header constraints from Medical Summary. It also uses parts of the
385 Antepartum History and Physical where needed.

6.3.1.A.1 Format Code

The XDSDocumentEntry format code for this content is **urn:ihe:pcc:ldhp:2009**

6.3.1.A.2 LOINC Code

The LOINC code for this document is **57056-4** Labor and Delivery admission history and
390 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 Obstretricians 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

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 2010-2011 Supplement

Table 6.3.1.A.4-1 Labor and Delivery History and Physical Specification

Template Name	Opt	Section Template Id	Value Set Template Id
Chief Complaint (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1	N/A
History of Present Illness (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.3.4	N/A
History of Past Illness (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.3.8	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.1
Coded History of Infection (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.6
Pregnancy History (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.1.5.3.4	N/A
Coded Social History (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.3.16.1	N/A
Coded Family Medical History (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.3.15	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.4
Allergies and Other Adverse Reactions (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.3.13	N/A
Review of Systems (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.3.18	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.5
Coded Physical Exam (See Note 1)	R	1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1	N/A
Vital Signs (See Note 1)	C	1.3.6.1.4.1.19376.1.5.3.1.3.25	N/A
History of Surgical Procedures (See Note 1)	R2	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2	N/A
Labor and Delivery Events	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.3	N/A
Newborn Delivery Information	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.4	N/A
Estimated Blood Loss	R2	1.3.6.1.4.1.19376.1.5.3.1.1.9.2	N/A

Template Name	Opt	Section Template Id	Value Set Template Id
Coded Antenatal Testing and Surveillance	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1	N/A
Pain Scale Assessment	R2	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2	N/A

400

Note 1: This template is part of Antepartum History and Physical and should be

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

405 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"/>
410     <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-->
       <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.1.1'/><!--Labor and Delivery History and
      Physical-->
415     <id root=' ' extension=' '/>
        <code code='57056-4' displayName='Labor and delivery admission history and physical'
          codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
        <title>Labor and Delivery Record History and Physical</title>
        <effectiveTime value='20080601012005'/>
420     <confidentialityCode code='N' displayName='Normal'
          codeSystem='2.16.840.1.113883.5.25' codeSystemName='Confidentiality' />
        <languageCode code='en-US'/>
           :
        <component><structuredBody>
425       <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1'/>
              <!-- Required Chief Complaint Section content -->
            </section>
430       </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.4'/>
              <!-- Required History of Present Illness Section content -->
435         </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.8'/>
440           <!-- Required History of Past Illness Section content -->
            </section>
          </component>
          <component>
            <section>
445           <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.16.2.1.1.1'/>
              <!-- Required Coded History of Infection Section content -->
            </section>
          </component>
          <component>
450         <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.5.3.4'/>
              <!-- Required Pregnancy History Section content -->
            </section>
          </component>
455       <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.16.1'/>
              <!-- Required Coded Social History Section content -->
            </section>
460       </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.15'/>
              <!-- Required Coded Family Medical History Section content -->
465         </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.13'/>
470           <!-- Required Allergies and Other Adverse Reactions Section content -->
            </section>
```

```
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.18'/>
              <!-- Required Review of Systems Section content -->
            </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1'/>
              <!-- Required Coded Physical Exam Section content -->
            </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.25'/>
              <!-- Conditional Vital Signs Section content -->
            </section>
          </component>
          <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>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.3'/>
              <!-- Required if known Labor and Delivery Events Section content -->
            </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.4'/>
              <!-- Required if known Newborn Delivery Information Section content -->
            </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.2'/>
              <!-- Required if known Estimated Blood Loss Section content -->
            </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1'/>
              <!-- Required if known Coded Antenatal Testing and Surveillance Section content -->
            </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2'/>
              <!-- Required if known Pain Scale Assessment Section content -->
            </section>
          </component>
    </strucuredBody></component>
</ClinicalDocument>
```

Figure 0.1.A.5-1 Sample Labor and Delivery History and Physical Document

530

Add section 6.3.1.B

6.3.1.B Labor and Delivery Summary 1.3.6.1.4.1.19376.1.5.3.1.1.21.1.2

The Labor and Delivery Summary (LDS) content profile represents a summary of the most critical information concerning the labor and delivery care in a birthing facility. The LDS is a Medical Summary and inherits all header constraints from Medical Summary. It also uses parts of the Labor and Delivery History and Physical profile where needed.

6.3.1.B.1 Format Code

The XDSDocumentEntry format code for this content is **urn:ihe:pcc:lds:2009**

6.3.1.B.2 LOINC Code

The LOINC code for this document is **57057-2** Labor and delivery 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 Obstretricians 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.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 2010-2011 Supplement

Table 6.3.1.B.4-1 Labor and Delivery Summary Specification

Template Name	Opt	Section Template Id	Value Set Template Id
Hospital Admission Diagnosis This section shall indicate the reasons for admitting the mother to the birthing facility (e.g. premature labor, ruptured membrane).	R	1.3.6.1.4.1.19376.1.5.3.1.3.3	

Template Name	Opt	Section Template Id	Value Set Template Id
Admission Medication History This section should contain assessment of the mother's pregnancy status and expectations for care including proposals, goals, and order requests for her condition and the birthing process.	R2	1.3.6.1.4.1.19376.1.5.3.1.3.20	
Chief Complaint	R	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1	
Transport Mode	R	1.3.6.1.4.1.19376.1.5.3.1.1.10.3.2	
Assessment and Plan	R2	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.5	
Coded Results Relevant laboratory results shall be recorded and the Antepartum Laboratory Value Set should be used to represent the results.	R	1.3.6.1.4.1.19376.1.5.3.1.3.28	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.7
History of Present Illness	R	1.3.6.1.4.1.19376.1.5.3.1.3.4	
History of Past Illness This section shall include clinically relevant information to the labor and delivery. This section should use the codes as specified in the Antepartum History and Physical History of Past Illness Value Set.	R	1.3.6.1.4.1.19376.1.5.3.1.3.8	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.1
Coded Advance Directives	R2	1.3.6.1.4.1.19376.1.5.3.1.3.35	
Birth Plan	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.1	
Allergies and Other Adverse Reactions This section 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	
Coded Physical Exam	R	1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1	
Estimated Delivery Date	R	1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1	
Medications Administered	R	1.3.6.1.4.1.19376.1.5.3.1.3.21	
Intravenous Fluids Administered	R2	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.6	
History of Surgical Procedures	R2	1.3.6.1.4.1.19376.1.5.3.1.1.16.2.2	
Labor and Delivery Events	R	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.3	

Template Name	Opt	Section Template Id	Value Set Template Id
Newborn Delivery Information	R	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.4	
Estimated Blood Loss	R2	1.3.6.1.4.1.19376.1.5.3.1.1.9.2	
Coded Antenatal Testing and Surveillance	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1	
Pain Scale Assessment	R2	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2	

550 **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

555 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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      <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-->
560     <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.1.2'/><!--Labor and Delivery Summary-->
        <id root=' ' extension=' '/>
        <code code='57057-2' displayName='Labor and delivery summary'
          codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
        <title>Labor and Delivery Summary</title>
565     <effectiveTime value='20080601012005'/>
        <confidentialityCode code='N' displayName='Normal'
          codeSystem='2.16.840.1.113883.5.25' codeSystemName='Confidentiality' />
        <languageCode code='en-US'/>
           :
570     <component><structuredBody>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.3'/>
              <!-- Required Hospital Admission Diagnosis Section content -->
575         </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.20'/>
580           <!-- Required if known Admission Medication History Section content -->
            </section>
          </component>
          <component>
            <section>
585           <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.1'/>
              <!-- Required Chief Complaint Section content -->
            </section>
          </component>
          <component>
590         <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.10.3.2'/>
              <!-- Required Transport Mode Section content -->
            </section>
          </component>
595       <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.5'/>
              <!-- Required if known Assessment and Plan Section content -->
            </section>
600       </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.28'/>
              <!-- Required Coded Results Section content -->
605         </section>
          </component>
          <component>
            <section>
              <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.4'/>
610           <!-- Required History of Present Illness Section content -->
            </section>
          </component>
          <component>
            <section>
615           <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.8'/>
              <!-- Required History of Past Illness Section content -->
            </section>
          </component>
          <component>
620         <section>
```

```
                   <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.35'/>
                   <!-- Required if known Coded Advance Directives Section content -->
                 </section>
               </component>
625            <component>
                 <section>
                   <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.1'/>
                   <!-- Required if known Birth Plan Section content -->
                 </section>
630            </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 -->
635              </section>
               </component>
               <component>
                 <section>
                   <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.15.1'/>
640                <!-- Required Coded Physical Exam Section content -->
                 </section>
               </component>
               <component>
                 <section>
645                <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.11.2.2.1'/>
                   <!-- Required Estimated Delivery Date Section content -->
                 </section>
               </component>
               <component>
650            <section>
                   <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.21'/>
                   <!-- Required Medications Administered Section content -->
                 </section>
               </component>
655            <component>
                 <section>
                   <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.13.2.6'/>
                   <!-- Required if known Intravenous Fluids Administered Section content -->
                 </section>
660            </component>
               <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 -->
665              </section>
               </component>
               <component>
                 <section>
                   <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.3'/>
670                <!-- Required Labor and Delivery Events Section content -->
                 </section>
               </component>
               <component>
                 <section>
675                <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.4'/>
                   <!-- Required Newborn Delivery Information Section content -->
                 </section>
               </component>
               <component>
680            <section>
                   <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.9.2'/>
                   <!-- Required if known Estimated Blood Loss Section content -->
                 </section>
               </component>
```

```
685        <component>
             <section>
               <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.21.2.5.1''/>
               <!-- Required if known Coded Antenatal Testing and Surveillance Section content -->
             </section>
690        </component>
           <component>
             <section>
               <templateId root='1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2'/>
               <!-- Required if known Pain Scale Assessment Section content -->
695          </section>
           </component>
         </strucuredBody></component>
</ClinicalDocument>
```

Figure 0.1.B.5-1 Sample Labor and Delivery Summary Document

700

705   *Add section 6.3.1.C*

6.3.1.C Maternal Discharge Summary 1.3.6.1.4.1.19376.1.5.3.1.1.21.1.3

The Maternal Discharge Summary (MDS) content profile represents a snapshot of the patient's postpartum stay until her discharge from the birthing facility. The MDS is a Medical Summary and inherits all header constraints from Medical Summary.

710 ### 6.3.1.C.1 Format Code

The XDSDocumentEntry format code for this content is **urn:ihe:pcc:mds:2009**

6.3.1.C.2 LOINC Code

The LOINC code for this document is **57058-0** Labor and delivery summary

6.3.1.C.3 Standards

CCD	ASTM/HL7 Continuity of Care Document
CDAR2	HL7 CDA Release 2.0
ACOG AR	American College of Obstretricians 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)

715 ## 6.3.1.C.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 2010-2011 Supplement

720

Table 6.3.1.C.4-1 Maternal Discharge Summary Specification

Template Name	Opt	Section Template Id	Value Set Template Id
Hospital Course	R	1.3.6.1.4.1.19376.1.5.3.1.3.5	
Coded Advance Directives	R2	1.3.6.1.4.1.19376.1.5.3.1.3.35	
Discharge Diagnosis	R	1.3.6.1.4.1.19376.1.5.3.1.3.7	
Hospital Discharge Medications	R	1.3.6.1.4.1.19376.1.5.3.1.3.22	
Coded Results Relevant laboratory results shall be recorded and the Antepartum Laboratory Value Set should be used to represent the results.	R	1.3.6.1.4.1.19376.1.5.3.1.3.28	1.3.6.1.4.1.19376.1.5.3.1.1.16.5.7
Coded Hospital Studies Summary	R	1.3.6.1.4.1.19376.1.5.3.1.3.30	
Pain Scale Assessment	R2	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.2	
Problems	R2	1.3.6.1.4.1.19376.1.5.3.1.3.6	
Braden Score	R2	1.3.6.1.4.1.19376.1.5.3.1.1.12.2.3	
History of Past Illness	R	1.3.6.1.4.1.19376.1.5.3.1.3.8	
Postpartum Treatment	R2	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.7	
Intravenous Fluid Administered	R	1.3.6.1.4.1.19376.1.5.3.1.1.13.2.6	
Estimated Blood Loss	R2	1.3.6.1.4.1.19376.1.5.3.1.1.9.2	
Transfusion History	R	1.3.6.1.4.1.19376.1.5.3.1.1.9.12	
Patient Education	R2	1.3.6.1.4.1.19376.1.5.3.1.1.9.38	
Newborn Status at Maternal Discharge	R	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.8	
Event Outcomes	R	1.3.6.1.4.1.19376.1.5.3.1.1.21.2.9	

725 **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 Medical Summary

730 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.

```
735  <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='1.3.6.1.4.1.19376.1.5.3.1.1.21.1.3'/> <!--Maternal Discharge Summary-->
       <id root=' ' extension=' '/>
740    <code code='57058-0' displayName='Maternal discharge summary'
         codeSystem='2.16.840.1.113883.6.1' codeSystemName='LOINC'/>
       <title>Maternal Discharge Summary</title>
       <effectiveTime value='20080601012005'/>
       <confidentialityCode code='N' displayName='Normal'
745      codeSystem='2.16.840.1.113883.5.25' codeSystemName='Confidentiality' />
       <languageCode code='en-US'/>
           :
       <component><structuredBody>
         <component>
750        <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.5'/>
             <!-- Required Hospital Course Section content -->
           </section>
         </component>
755      <component>
           <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.35'/>
             <!-- Required if known Coded Advance Directives Section content -->
           </section>
760      </component>
         <component>
           <section>
             <templateId root='1.3.6.1.4.1.19376.1.5.3.1.3.7'/>
             <!-- Required Discharge Diagnosis Section content -->
765        </section>
         </component>
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               <!-- Required Event Outcomes Section content -->
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Figure 0.1.C.5-1 Sample Maternal Discharge Summary Document