

HITSP Vital Records Pre-Populate Component (Provisional)

HITSP/C170



Healthcare Information Technology Standards Panel

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1.0 INTRODUCTION

This section provides a high level overview of the Healthcare Information Technical Standards Panel (HITSP) Vital Records Pre-Populate Component (Provisional) document and the information sharing enabled by following this specification. This is a Provisional Component that is pending alignment of the Integrating the Healthcare Enterprise (IHE) Maternal and Child Health (MCH) Profile. U.S. Domain specific components with requirements identified by National Center for Health Statistics (NCHS)/Centers for Disease Control and Prevention (CDC). This alignment is anticipated as a change proposal to the IHE MCH profile. This Component is expected to be finalized once the underlying Standard has applied the change proposal that will align the requirements. Until such time, this Component will remain provisional, and the IHE MCH standard will remain as an 'Intended for Use' status in the HITSP standards selection process. Once the specification is completed, NCHS/CDC plans to pilot test prior to implementation and adoption as a national standard that supports U.S. vital records activities.

1.1 OVERVIEW

The States/Jurisdictions (hereafter referred to as States), National Association for Public Health Statistics and Information Systems (NAPHSIS), and NCHS collaborate to promote uniformity and consistency. State laws require reporting of all births, deaths, and reportable fetal deaths to the State. Federal law further obligates NCHS to produce national multipurpose statistics based on the State vital records information. Over 6 million vital event records annually, including statistical information (demographic, medical, and geographic) are derived from over four million birth certificates and from about 2.4 million death certificates and fetal death reports. These events are registered annually by fifty-seven registration areas: 50 States, two cities (New York and Washington DC), and 5 U.S. Territories (American Samoa, Guam, the Northern Mariana Islands, Puerto Rico, and the U.S. Virgin Islands). Detailed data on all events are transmitted to the NCHS for processing and dissemination.

The vital records community recognizes the importance of laying a solid foundation for standardized transmission of vital records information. This includes activities to support the development of Interoperability Specifications and to identify existing gaps that need to be addressed to support data exchange and interoperability of vital records information. This HITSP Vital Records Pre-populate Component specifies data content and data standards for use in the electronic collection and reporting of birth, death, and fetal death information.

1.2 COPYRIGHT PERMISSIONS

COPYRIGHT NOTICE

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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



Reference Document	Document Description
TN901 – Clinical Documents	TN901 is a reference document that provides 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
TN904 – Harmonization Framework and Exchange Architecture	TN904 is a reference document that provides the overall context for use of the HITSP Harmonization Framework and Exchange Architecture
National Center for Health Statistics	Provides information regarding Vital Health Statistics data requirements

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

A Component defines HITSP atomic constructs used to support an information exchange or to meet an infrastructure requirement. This is accomplished by:

1. Referencing one or more underlying standards
2. Specifying constraints and other rules for using the standards

2.1 CONTEXT OVERVIEW

This Component specifies data sets that may be pre-populated from an EHR to assist with providing vital records information to State and Federal agencies. The Component further specifies mappings to HITSP data elements for this data, as well as, HITSP terminology constraints on this data. The data are intended for pre-population within a Form Filler to optimize data capture from an EHR for use in reporting. This Component also specifies some data that may not be pre-populated from an EHR and must be entered by hand.

Data sets specified by this Component are:

- Vital Records – Birth Record
- Vital Records – Fetal Death Record
- Vital Records – Death Record

See Table 2-2 through Table 2-4 for HITSP specified constraints on the above data sets.

2.1.1 COMPONENT DEPENDENCIES

Table 2-1 Component Dependencies

Standard/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/C170 – Vital Records Pre-populate	HITSP/C83-CDA Content Modules	General	Identifies the content modules and sections constrained by this Component
HITSP/C170 – Vital Records Pre-populate	HITSP/C80-Clinical Document and Message Terminology	General	Identifies vocabulary constrained by this Component
HITSP/C170 – Vital Records Pre-populate	HITSP/C154-Data Dictionary	General	Identification of Data Elements constrained within this Component

2.2 RULES FOR IMPLEMENTING

2.2.1 DATA MAPPING

This section describes the specific data elements used by this Component. Only the data elements that HITSP is constraining differently from the standard are described here.



Table 2-2 Birth Certificate Data Mapping

Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-001]	Abnormal conditions of the newborn: ANTI - Antibiotics [received by the newborn for suspected neonatal sepsis]	8.07 - Route 8.13 - Coded Product Name 8.21 Indication	R	Need to get value subset for ANTIBIOTICS, Intramuscular, Intravenous neonatal sepsis C170-[DE-8-1] IF (8.21 Indication CONTAINS ValueSet (Neonatal Sepsis) AND (8.13 Coded Product Name CONTAINS ValueSet (Antibiotic)) AND (8.07 Route CONTAINS ValueSet (intramuscular) OR ValueSet (intravenous))), THEN "ANTI" SHALL = "Y" ELSE "N" NOTE: This includes an expectation that EMR practice for coding the indication for the medication
C170[CT-002]	Abnormal conditions of the newborn: AVEN1 -Assisted ventilation [required immediately following delivery]	17.01 -Procedure ID	R	Need to get value subset for Assisted Ventilation immediately following delivery C170-[DE-17-1] IF (17.01 Procedure ID CONTAINS ValueSet (Assisted Ventilation immediately following delivery)) THEN "AVEN1" SHALL = "Y" ELSE "N"
C170[CT-003]	Abnormal conditions of the newborn: AVEN6 - Assisted ventilation for 6 or more hours	17.01 -Procedure ID 17.04 -Procedure Date Time	R	Need to get value subset for Assisted Ventilation for 6 or more hours C170-[DE-17-2] IF (17.01 Procedure ID CONTAINS ValueSet (Assisted Ventilation for 6 or more hours)) THEN "AVEN6" SHALL = "Y" ELSE "N"
C170[CT-004]	Abnormal conditions of the newborn: BINJ - Significant birth injury [(skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention)]	7.04 – Problem Code		Need to get value subset for VR Significant Birth Injury C170-[DE-7.04-2] IF (7.04 Problem Code CONTAINS ValueSet (VR Significant birth injury)), THEN "BINJ" SHALL = "Y" ELSE "N" NOTE: A specific list of what is defined as serious neurologic dysfunction for VR is provided for the birth certificate. We need to limit the choices to these specific categories and exclusions. The list is not comprehensive of inclusions, but it is for exclusions.) Will need to make one value set to include the VR requirements
C170[CT-005]	Abnormal conditions of the newborn: DNA54 – Unknown	7.04 – Problem Code		C170-[DE-7.04-4] IF ((AVEN1 = "U") OR (AVEN6 = "U") OR (NICU = "U") OR (SURF = "U") OR (ANTI = "U") OR (SEIZ = "U") OR (BINJ = "U")), THEN "DNA54" SHALL = "1" ELSE "DNA54" SHALL = "0"

¹ This data item **SHALL NOT** be populated as described in the HITSP requirements according to NCHS/CDC recommendations although the EHR may have the capability of pre-populating this data element.



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-006]	Abnormal conditions of the newborn: NICU – Admission to NICU	16.11 – Facility Location	R	Need to get value subset for U.S. VITAL RECORDS FACILITY LOCATION NICU. C170-[DE- 16.11-1] IF (16.11 Facility Location CONTAINS (US VITAL RECORDS FACILITY LOCATION NICU)), THEN "NICU" SHALL = "Y" ELSE "N"
C170[CT-007]	Abnormal conditions of the newborn: NOA54 - None of the above	7.04 – Problem Code		C170-[DE- 7.04-3] IF ((AVEN1 = "N") AND (AVEN6 = "N") AND (NICU = "N") AND (SURF = "N") AND (ANTI = "N") AND (SEIZ = "N") AND (BINJ = "N")), THEN "NOA54" SHALL = "Y"
C170[CT-008]	Abnormal conditions of the newborn: SEIZ - Seizure or serious neurologic dysfunction	7.04 – Problem Code	R	Need to get value subset for VR Seizure or serious neurologic dysfunction C170-[DE- 7.04-1] If (7.04 Problem Code CONTAINS ValueSet (VR Seizure or serious neurologic dysfunction)) THEN "SEIZ" SHALL = "Y" ELSE "N" NOTE: A specific list of what is defined as serious neurologic dysfunction for VR is provided for the birth certificate. We need to limit the choices to these specific categories and exclusions. The list is not comprehensive of inclusions, but it is for exclusions.) Will need to make one value set to include the VR requirements
C170[CT-009]	Abnormal conditions of the newborn: SURF – [Newborn given] Surfactant replacement therapy	17.01 -Procedure ID	R	Need to get value subset for NEWBORN RECEIVING SURFACTANT REPLACEMENT THERAPY. C170-[DE- 17.01-1] IF (17.01 Procedure ID CONTAINS ValueSet (Newborn Receiving Surfactant Replacement Therapy)), THEN "SURF" SHALL = "Y" ELSE "N"
C170[CT-010]	Apgar Score: APGAR5 This item may be populated from the L&D record.	15.03 – Result Type 15.05 - Result Value	R	Need value set 5 Min Apgar Score C170-[DE- 15-1] If (15.03 Result Type CONTAINS ValueSet (5 Min Apgar Score)), THEN "APGAR5" = (15.05 Result Value)
C170[CT-011]	Apgar Score: APGAR10	15.03 – Result Type 15.05 - Result Value	R	Need Value Set 10 Min Apgar Score C170-[DE- 15-2] If ("APGAR5" <6), AND (15.03 Result Type CONTAINS ValueSet (10 Min Apgar Score), THEN "APGAR10" = (15.05 Result Value)
C170[CT-012]	Attendant's name: ATTENDN	4.07 - Provider Name 17.01 – Procedure ID	R	Need a valueset for Delivery. C170-[DE- 4.07-1] "ATTENDN" SHALL be populated using HITSP/C83 Section 2.2.1.45 Procedures and Interventions using 4.07 Provider Name WHERE 17.01 Procedure ID contains ValueSet (Delivery)



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-013]	Attendant's title: ATTEND	4.04 – Provider Type 17.01 – Procedure ID	R	Need Value set for MD, DO, CNM/CM, Other midwife for VR Attendant Title C170-[DE-4.04-1] IF 17.01 Procedure ID CONTAINS ValueSet (Delivery), THEN IF 4.04 Provider Type CONTAINS ValueSet (MD), THEN "ATTEND" SHALL = "1", ELSE IF 4.04 Provider Type CONTAINS ValueSet (DO), THEN "ATTEND" SHALL = "2", ELSE IF 4.04 Provider Type CONTAINS ValueSet (CNM_CM), THEN "ATTEND" SHALL = "3", ELSE IF 4.04 Provider Type CONTAINS ValueSet (Other midwife), THEN "ATTEND" SHALL = "4", ELSE IF 4.04 Provider Type NOT NULL THEN "ATTEND" SHALL = "5", ELSE "ATTEND" SHALL = "9" C170-[DE-4.04-2] SHALL be populated using HITSP/C83 Section 2.2.2.8 List of Surgeries using 4.04 Provider Type WHERE 17.01 Procedure ID contains Valueset (Delivery)
C170[CT-014]	Attendant: Other specified: ATTENDS	4.04 – Provider Type 17.01 – Procedure ID	R	Need Value set for VR Attendant NPI C170-[DE-4.04-3] IF 17.01 Procedure ID CONTAINS ValueSet (Delivery) AND "ATTEND" = "5", THEN ATTENDS SHALL = 4.04 Provider Type PUBLIC COMMENT INPUT Welcome
C170[CT-015]	Attendant's NPI: NPI	4.10 – National Provider ID 17.01 – Procedure ID	R	Need Value set for VR Attendant NPI C170-[DE-4.10-1] "NPI" SHALL be populated using HITSP/C83 Section 2.2.2.8 List of Surgeries using 4.10 National Provider ID WHERE 17.01 Procedure ID contains ValueSet (Delivery)
C170[CT-016]	Birthplace - Child: County of Birth: CNAME	1.16 Birth Place		C170-[DE-1.16-7] "CNAME" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.16 Birth Place
C170[CT-017]	Birthplace - Child: City, Town or Location of Birth: FLOC	1.16 Birth Place		C170-[DE-1.16-6] "FLOC" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.16 Birth Place.
C170[CT-018]	Birthplace – Mother's country of birth: BPLACE_CNT *	1.16 Birth Place	R	C170-[DE-1.16-3] IF NOT born in the United States, THEN "BPLACE_CNT" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the country part of 1.16 Birth Place
C170[CT-019]	Birthplace – Code for Mother's country of birth: BPLACEC_CNT*	1.16 Birth Place	R	C170-[DE-1.16-5] "BPLACEC_CNT" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the country part of 1.16 Birth Place



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-020]	Birthplace – Mother's state of birth: BPLACE_ST *	1.16 Birth Place	R	C170-[DE-1.16-1] IF born in the United States, THEN "BPLACE_ST" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the state part of 1.16 Birth Place
C170[CT-021]	Birthplace – Mother's territory of birth: BPLACE_TER*	1.16 Birth Place	R	Need a valueset for U.S. Territories C170-[DE-1.16-2] IF born in the United States Territories, THEN "BPLACE_TER" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the U.S. Territories part of 1.16 Birth Place
C170[CT-022]	Birthplace – Code for Mother's state or territory of birth: BPLACEC_ST_TER *	1.16 Birth Place	R	C170-[DE-1.16-4] IF born in the United States OR United States Territories, THEN "BPLACEC_ST_TER" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the state part of 1.16 Birth Place
C170[CT-023]	Birth weight (Infant's): BWG	15.03 Result Value	R	Need the LOINC or SNOMED value set to represent infant birth weight. C170 [DE15-3] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Infant Birth weight), THEN "BWG" SHALL = 15.05 Result Value WHERE 15.05 Result Value Units are expressed in grams PUBLIC COMMENT INPUT Welcome
C170[CT-024]	Birth weight (Infant's): BWO	15.03 Result Value	R	Need the LOINC or SNOMED value set to represent birth weight. C170 [DE15-3] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Birth weight), THEN "BWO" SHALL = 15.05 Result Value WHERE 15.05 Result Value Units are expressed in ounces
C170[CT-025]	Birth weight (Infant's): BWP	15.03 Result Value	R	Need the LOINC or SNOMED value set to represent birth weight C170 [DE15-3] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Birth weight), THEN "BWP" SHALL = 15.05 Result Value WHERE 15.05 Result Value Units are expressed in pounds
C170[CT-026]	Certifier: Date Certified* CERT_YR CERT_MO CERT_DY	Not available from EHR		
C170[CT027]	Certifier's First Name and Middle Name: CERTFNAME and Certifier's Last Name: CERTLNAME *	Not Available in EHR	R	Shall be populated by data entry



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-028]	Certifier's Title*	Not Available in EHR	R	Shall be populated by data entry
C170[CT-029]	Characteristics of labor and delivery: ANTB – Antibiotics[received by the mother during labor]	8.07 – Route 8.13 – Coded Product Name 8.03 – Administration Timing 7.01 - Problem Date/Time 7.04 - Problem Code 17.01 Procedure ID 17.04 Procedure Date/Time		Need to get value subset for ANTIBIOTICS, Need to get value subset for intravenous Need to get value subset for Intramuscular Need value subset for onset of labor Need value subset for delivery C170-[DE-8-1] IF (8.13 Coded Product Name CONTAINS ValueSet (Antibiotic)) AND (8.07 Route CONTAINS ValueSet (intramuscular) OR ValueSet (intravenous)) AND (17.04 Procedure Date/Time where 17.01 Procedure ID CONTAINS ValueSet(onset of labor)) <(8.03 Administration Timing)< (17.04 Procedure Date/Time where 17.01 Procedure ID CONTAINS ValueSet(delivery)) WHERE (7.01 Problem Date/Time WHERE 7.01 Problem ID CONTAINS valueSet (Onset of labor))THEN "ANTI" SHALL = "Y" ELSE "N"
C170[CT-030]	Characteristics of labor and delivery: AUGL - Augmentation of labor	17.01 - Procedure ID 8.13 – Coded Product Name		Need to get value subset for AUGMENTATION OF LABOR – Procedure Need to get value subset for AUGMENTATION OF LABOR - Medication C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (Augmentation of labor - procedure) OR (8.13 Coded Product Name CONTAINS Augmentation of labor - Medication)), THEN "AUGL" SHALL = "Y" ELSE "N"
C170[CT-031]	Characteristics of labor and delivery: CHOR – [Clinical] Chorioamnionitis[diagnosed during labor or maternal temperature >=38 degrees (100.4F) Vocab: Is fever available as a SNOMED code?	7.04 – Problem Code 14.05 – Vital Sign Result Value		Need to get value subset for Chorioamnionitis during labor Need to get value subset for labor C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Chorioamnionitis during labor) AND OR (14.05 Vital sign Result value>=38 degrees (100.4F)), THEN "CHOR" SHALL = "Y" ELSE "N"
C170[CT-032]	Characteristics of labor and delivery: DNA04- Unknown	7.04 – Problem Code		C170-[DE-7.04-4] IF ((INDL = "U") OR (AUGL = "U") OR (NVPR = "U") OR (STER = "U") OR (ANTB = "U") OR (CHOR = "U") OR (MECS = "U") OR (FINT = "U") OR (ESAN = "U")), THEN "DNA04" SHALL = "1" ELSE "DNA04" SHALL = "0"



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-033]	Characteristics of labor and delivery: ESAN – [Epidural or spinal]Anesthesia[during labor]	17.01 – Procedure Code 17.04 - Procedure Date Time 8.03 -Administration Timing 8.13 – Coded Product Name	C170-[DE- 17.01-#] IF (18.13 Coded Product Name CONTAINS ValueSet (epidural anesthesia) OR ValueSet (spinal anesthesia))AND (8.03 Administration Timing = (17.04 Procedure Date/Time WHERE 17.01 Procedure ID CONTAINS ValueSet (labor))) THEN “ESAN” SHALL = “Y” ELSE “N”.	Need to get value subset for Epidural Anesthesia Need to get value subset for Spinal Anesthesia Need value set for Onset of Labor Need to get value subset for Delivery C170-[DE-8. 13-#] IF (8.13 Coded Product Name CONTAINS ValueSet (epidural anesthesia) OR ValueSet (spinal anesthesia) AND (17.04 Procedure Date/Time where 17.01 Procedure ID CONTAINS ValueSet(onset of labor)) <(8.03 Administration Timing)< (17.04 Procedure Date/Time where 17.01 Procedure ID CONTAINS ValueSet(delivery)) WHERE (7.01 Problem Date/Time WHERE 7.01 Problem ID CONTAINS valueSet (Onset of labor)))THEN “ESAN” SHALL be “Y” ELSE “N”
C170[CT-034]	Characteristics of labor and delivery: FINT – Fetal intolerance [of labor such that one or more of the following actions was taken: in-utero resuscitation measures, further fetal assessment, or operative delivery]	7.04 - Problem Code 17.04 – Procedure Code		Need to get value subset for Fetal Intolerance of labor Need to get value subset for in-utero resuscitation measures Need to get values subset for further fetal assessment Need to get value subset for operative delivery C170-[DE- 7.04-2] IF (7.04 Problem Code CONTAINS ValueSet (Fetal Intolerance of labor) AND (17.04 Procedure Code CONTAINS ValueSet (In-utero resuscitation measures) OR ValueSet (Further fetal assessment) OR ValueSet (Operative delivery))), THEN “FINT” SHALL = “Y” ELSE “N”
C170[CT-035]	Characteristics of labor and delivery: INDL - Induction of labor	17.01 - Procedure ID 17.04 – Procedure Date/Time 7.04 -Problem Code 7.01 – Problem Date/Time	R	Need to get value subset for INDUCTION OF LABOR. Need to get value subset for SPONTANEOUS ONSET OF LABOR C170-[DE- 17.01-#] IF (17.01 Procedure ID CONTAINS ValueSet (Induction of labor), AND (17.04 Procedure Date/ Time is > (7.01 Problem Date/Time WHERE 7.04 Problem Code CONTAINS ValueSet (Spontaneous Onset of Labor))), THEN “INDL” SHALL = “Y” ELSE “N”



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-036]	Characteristics of labor and delivery: MECS- Meconium staining	7.04 – Problem Code 17.01 – Procedure ID 17.04 – Procedure Date/Time		Need to get value subset for Meconium staining Need to get value subset for labor Need to get value subset for delivery C170-[DE-7.04-#2] IF (7.04 Problem Code CONTAINS ValueSet (Meconium staining) WHERE (17.04 Procedure Date/Time CONTAINS ValueSet (Labor) AND/OR (17.04 Procedure Date/Time CONTAINS ValueSet (Delivery))) THEN “MECS” SHALL = “Y” ELSE “N”
C170[CT-037]	Characteristics of labor and delivery: NOA54 - None of the above	7.04 – Problem Code		C170-[DE-7.04-#] IF ((INDL= “N”) AND (AUGL = “N”) AND (NVPR = “N”) AND (STER = “N”) AND (ANTB = “N”) AND (CHOR = “N”) AND (MECS = “N”) AND (FINT = “N”) AND (ESAN = “N”)) , THEN “NOA54” SHALL = “Y”
C170[CT-038]	Characteristics of labor and delivery: NVPR - Non-vertex present[ation]	7.04 - Problem Code		Need to get value subset for NON-VERTEX PRESENTATION IN ACTIVE PHASE OF LABOR AND DELIVERY C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Non-vertex presentation in active phase of labor and delivery), THEN “NVPR” SHALL = “Y” ELSE “N”. PUBLIC COMMENT WELCOME: Vocabulary needed Is NON-VERTEX PRESENTATION IN ACTIVE PHASE OF LABOR AND DELIVERY is there a SNOMED CT new code needed?
C170[CT-039]	Characteristics of labor and delivery: STER - Steroids [(glucocorticoids) for fetal lung maturation received by the mother prior to delivery]	8.13 - Coded Product Name 8.21 - Indication 8.03 – Administration Timing 17.01 – Procedure ID 17.04 - Procedure Date/Time		Need to get value subset for VR STEROIDS. Need to get value subset for fetal lung maturation Need to get value subset for delivery Need to get value subset for anti-inflammatory C170-[DE-8-#] IF (8.13 Coded Product Name CONTAINS ValueSet (VR Steroids)) AND (8.21 Indication CONTAINS ValueSet (Fetal lung maturation)) AND NOT (8.21 Indication CONTAINS ValueSet (Anti-inflammatory)) AND (8.03 Administration Timing < (17.04 Procedure Date/Time WHERE 17.01 Procedure ID CONTAINS ValueSet (delivery))) THEN “STER” SHALL = “Y” ELSE “N”



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-040]	Child: Date of Birth IDOB_YR IDOB_MO IDOB_DY	1.07 - Person Date of Birth of infant record	R	C170-[DE-1.07-1] "IDOB_YR" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Year part of 1.07 Person Date of Birth WHERE the Year is represented using 4-digits C170-[DE-1.07-2] "IDOB_MO" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Month part of 1.07 Person Date of Birth WHERE the Month is represented using 2-digits C170-[DE-1.07-3] "IDOB_DY" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Day part of 1.07 Person Date of Birth WHERE the Day is represented using 2-digits
C170[CT-041]	Child's First Name: FNAME and Child's Middle Name: MNAME and Child's Last Name: LNAME and Child's Last Name Suffix:* SUFF*-all components of the child's name items	1.05 Person Name	R	C170-[DE-1.05-X] "FNAME" AND "MNAME" AND "LNAME" AND "SUFF" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information, Data Element 1.05 Person Name
C170[CT-042]	Child: (Infant) name chosen?*	Not available from EHR	R	Data Entry Required
C170[CT-043]	Child: Infant being breastfed at discharge?	7.04 - Problem Code 11.03 Tense	R	Need value sets for infant being breastfed at discharge, Intent C170-[DE- data element number -1] If 7.04 Problem Code is value set (Infant being breastfed at discharge) and 11.03 Tense CONTAINS ValueSet (Intent) THEN data element name SHALL be "Y". PUBLIC COMMENT INPUT: Is this vocabulary available.
C170[CT-044]	Child: Infant living at time of report? ILIV	7.09 – Time of Death Infant Record	R	C170-[DE- 7.09-1 IF Section 2.2.2.7 Condition, 7.07 – Time of Death NOT NULL then "ILIV" SHALL = 'Y' ELSE 'N'
C170[CT-045]	Child: Newborn Medical Record Number IRECNUM	18.04 Family Member Relationship 18.06 Family Member Identifier	R	Need Value Set Newborn, C170-[DE- 18.66-1 IF (18.04 Family Member Relationship) CONTAINS ValueSet (Newborn) THEN "IRECNUM" SHALL =18.06 Family Member Identifier
C170[CT-046]	Child: (infant) Sex - ISEX	1.06 Gender	R	Need Value Set Male, Female, Not Yet Determined C170-[DE-1.02-2] IF Infant Record Section 2.2.2.1 Personal Information 1.06 Gender CONTAINS ValueSet(Male) THEN "ISEX" SHALL = 'M' ELSE IF IF Infant Record Section 2.2.2.1 Personal Information 1.06 Gender CONTAINS ValueSet(Female) THEN "ISEX" SHALL = 'F' ELSE IF Infant Record Section 2.2.2.1 Personal Information 1.06 Gender CONTAINS ValueSet(Not Yet Determined) THEN "ISEX" SHALL = 'N' ELSE



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-047]	Child: Infant transferred within 24 hours of delivery/name the facility ITRAN FTRAN	16.09 - Discharge Disposition 16.04 - Encounter Date/Time 1.07 - Person Date of Birth 16.xx – Referred To Facility	R	Need Value Set for Discharge Transfer Need Encounter Attribute 16.xx 'Referred to Facility' C170-[DE-16.09-1] If Infant Record 16.09 Discharge Disposition CONTAINS ValueSet (Discharge Transfer) and (16.04 Encounter Date/Time (High) – 1.07 Person Date of Birth) <= 24 hours THEN ITRAN SHALL = "Y" ELSE ITRAN SHALL = "N" C170-[DE-16.09-2] If Infant Record 16.09 Discharge Disposition CONTAINS ValueSet (Discharge Transfer) and (16.04 Encounter Date/Time (High) – 1.07 Person Date of Birth) <= 24 hours THEN FTRAN SHALL = 16.xx Referred to Facility
C170[CT-048]	Child: Time of Birth TB	1.07 - Person Date of Birth	R	C170-[DE-1.02-2] "TB" SHALL = Time part of 2.2.2.1 Personal Information 1.07 Person Data of Birth
C170[CT-049]	Cigarette Smoking before and during pregnancy: Number of cigarettes smoked in 1 st three months of pregnancy - CIGFN*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use first trimester-cigarettes C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use first trimester-cigarettes) THEN "CIGFN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value SHALL populated with the number of cigarettes PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use first trimester-cigarettes'?
C170[CT-050]	Cigarette Smoking before and during pregnancy: Number of packs of cigarettes smoked in the first three months of pregnancy - CIGFP*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use first trimester-packs C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use first trimester-packs) THEN "CIGFP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value SHALL be populated with the number of packs PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use first trimester-packs'?



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C170[CT-051]	Cigarette Smoking before and during pregnancy: Number cigarettes smoked in 3 rd three months of pregnancy - CIGLN*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use third trimester-cigarettes C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Third Trimester) AND 9.01 Pregnancy, THEN "CIGLN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use third trimester-cigarettes'?
C170[CT-052]	Cigarette Smoking before and during pregnancy: Number of packs of cigarettes smoked in the 3 rd three months of pregnancy - CIGLP*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use third trimester-packs C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Third Trimester) AND 9.01 Pregnancy, THEN "CIGLP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use third trimester-packs'?
C170[CT-053]	Cigarette Smoking before and during pregnancy: Number of cigarettes smoked prior to pregnancy - CIGPN*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use Pre-Pregnancy-cigarettes C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Pre-Pregnancy-cigarettes), THEN "CIGPN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use Pre-Pregnancy-cigarettes'?



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C170[CT-054]	Cigarette Smoking before and during pregnancy :Number of packs of cigarettes smoked prior to pregnancy - CIGPP*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use Pre-Pregnancy-packs C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Pre-Pregnancy-packs) AND NOT 9.01 Pregnancy, THEN "CIGPP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use Pre-Pregnancy-packs'?
C170[CT-055]	Cigarette Smoking before and during pregnancy: Number of cigarettes smoked in the 2 nd three months of pregnancy - CIGSN*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use second trimester-cigarettes C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use second trimester-cigarettes THEN "CIGSN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use second trimester-cigarettes'?
C170[CT-056]	Cigarette Smoking before and during pregnancy: Number of packs of cigarettes smoked in the 2 nd three months of pregnancy - CIGSP*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use second trimester-packs C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use second trimester-packs) THEN "CIGSP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use second trimester-packs'?
C170[CT-057]	Congenital anomalies of the Newborn: ANEN - Anencephaly	7.04 - Problem Code		Need to get value subset for Anencephaly of the Newborn \ C170-[DE- 7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Anencephaly of the Newborn) THEN "ANEN" SHALL = "Y" ELSE "N". NOTE: Value set for Anencephaly of the Newborn includes: anencephalus, acrania, craniorachischisis



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C170[CT-058]	Congenital anomalies of the Newborn: CCHD -Cyanotic congenital heart disease	7.04 - Problem Code		Need to get Value subset for Cyanotic Congenital heart disease C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Cyanotic congenital heart disease) THEN "CCHD" SHALL = "Y" ELSE "N".
C170[CT-059]	Congenital anomalies of the Newborn: CDH- Congenital diaphragmatic hernia	7.04 - Problem Code		Need to get value subset for Congenital diaphragmatic hernia C170-[DE-7.04-#] If (7.04 Problem Code CONTAINS ValueSet (Congenital diaphragmatic hernia) THEN "CDH" SHALL = "Y" ELSE "N".
C170[CT-060]	Congenital anomalies of the Newborn: CDIC -Suspected chromosomal disorder karyotype confirmed	7.04 - Problem Code		Need to get value subset for Suspected chromosomal disorder karyotype confirmed C170-[DE-7.04-#] If (7.04 Problem Code CONTAINS ValueSet (Suspected chromosomal disorder karyotype confirmed)) THEN "CDIC" SHALL = "Y" ELSE "N".
C170[CT-061]	Congenital anomalies of the Newborn: CDIS- Suspected chromosomal disorder	7.04 - Problem Code		Need to get value subset for Suspected chromosomal disorder C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Suspected chromosomal disorder)) THEN "CDIS" SHALL = "Y" ELSE "N"
C170[CT-062]	Congenital anomalies of the Newborn: CDIP -Suspected chromosomal disorder karyotype pending	7.04 - Problem Code		Need to get value subset for Suspected chromosomal disorder karyotype pending C170-[DE-7.04-#] If (7.04 Problem Code CONTAINS ValueSet (Suspected chromosomal disorder karyotype pending)) THEN "CDIP" SHALL = "Y" ELSE "N".
C170[CT-063]	Congenital anomalies of the Newborn: CL- Cleft Lip with or without Cleft Palate	7.04 - Problem Code		Need to get value subset for Cleft Lip with/without Cleft Palate C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Cleft Lip with/without Cleft Palate)) "CL" SHALL = "Y" ELSE "N". NOTE: value subset for Cleft Lip with/without Cleft Palate includes unilateral, bilateral or median
C170[CT-064]	Congenital anomalies of the Newborn: CP- Cleft Palate alone	7.04 - Problem Code		Need to get value subset for Cleft Palate alone C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Cleft Palate alone)) THEN "CL" SHALL = "Y" ELSE "N".



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-065]	Congenital anomalies of the Newborn: DNA55 -Unknown			C170-[DE-7.04-#] IF ((ANEN = "N") OR (MNSB = "N") OR (CCHD = "N") OR (CDH = "N") OR (OMPF = "N") OR (GAST = "N") OR (LIMB = "N") OR (CL = "N") OR (CP = "N") OR (DOWN = "N") OR (DOWC = "N") OR (DOWP = "N") OR (CDIS = "N") OR (CDIC = "N") OR (CDIP = "N") OR (HYPO = "N")), THEN "DNA55" SHALL = "1", ELSE "DNA55" SHALL = "0".
C170[CT-066]	Congenital anomalies of the Newborn: DOWC- Down Karyotype confirmed	7.04 - Problem Code		Need to get value subset for Down Karyotype confirmed C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Down Karyotype confirmed)) THEN "DOWC" SHALL = "Y" ELSE "N"
C170[CT-067]	Congenital anomalies of the Newborn: DOWN-Down Syndrome	7.04 - Problem Code		Need to get value subset for Down Syndrome C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Down Syndrome)) THEN "DOWN" SHALL = "Y" ELSE "N"
C170[CT-068]	Congenital anomalies of the Newborn: DOWP -Down Karyotype pending	7.04 - Problem Code		Need to get value subset for Down Karyotype pending C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Down Karyotype pending)) THEN "DOWC" SHALL = "Y" ELSE "N"
C170[CT-069]	Congenital anomalies of the Newborn: GAST- Gastroschisis	7.04 - Problem Code		Need to get value subset for Gastroschisis of the Newborn C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Gastroschisis of the Newborn)) THEN "GAST" SHALL = "Y" ELSE "N".
C170[CT-070]	Congenital anomalies of the Newborn: HYPO -Hypospadias	7.04 - Problem Code		Need to get value subset for Hypospadias C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Hypospadias)) THEN "HYPO" SHALL = "Y" ELSE "N".
C170[CT-071]	Congenital anomalies of the Newborn: LIMB -Limb reduction defect	7.04 - Problem Code		Need to get value subset for Limb reduction defect C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Limb reduction defect)) THEN "LIMB" SHALL = "Y" ELSE "N". NOTE: value subset for Limb reduction defect excludes congenital amputation and dwarfing syndromes



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-072]	Congenital anomalies of the Newborn: MNSB - Meningomyelocele/ Spina Bifida	7.04 - Problem Code		<p>Need to get value subset for Meningomyelocele/Spina Bifida of the Newborn</p> <p>C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Meningomyelocele of the Newborn) THEN "ANEN" SHALL = "Y" ELSE "N".</p> <p>NOTE: Value set for Meningomyelocele/Spina Bifida of the Newborn includes: herniation of the meninges and/or spinal cord tissue through a bony defect of spine closure. Meningomyelocele refers to herniation of meninges and spinal cord tissue, meningocele (open and closed lesions). Excluded from value set: Spina bifida occulta.</p>
C170[CT-073]	Congenital anomalies of the Newborn: NOA55 -None of the anomalies listed above	7.04 – Problem Code		<p>C170-[DE-7.04-#] IF ((ANEN = "N") AND (MNSB = "N") AND (CCHD = "N") AND (CDH = "N") AND (OMPF = "N") AND (GAST = "N") AND (LIMB = "N") AND (CL = "N") AND (CP = "N") AND (DOWN = "N") AND (DOWC = "N") AND (DOWP = "N") AND (CDIS = "N") AND (CDIC = "N") AND (CDIP = "N") AND (HYPO = "N")), THEN "NOA55" SHALL = "Y".</p>
C170[CT-074]	Congenital anomalies of the Newborn: OMPH -Omphalocele	7.04 - Problem Code		<p>Need to get value subset for Omphalocele of the Newborn</p> <p>C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Omphalocele of the Newborn) THEN "OMPH" SHALL = "Y" ELSE "N".</p> <p>NOTE: value subset for Omphalocele of the Newborn excludes Umbilical hernia (completely covered by skin)</p>



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-075]	Date of last live birth: YLLB MLLB	15.03 Result Type 15.05 Result Value	R	<p>Need to get value subset for Date of Last Live Birth, Number of Live Births</p> <p>C170-[DE-15-8] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Live Birth), THEN (IF Result Value NOT NULL THEN "YLLB" SHALL = the Year part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Year is represented using 4-digits ELSE "YLLB" SHALL = '8888') ELSE "YLLB" SHALL = '9999'</p> <p>C170-[DE-15-9] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Live Birth), THEN (IF Result Value NOT NULL THEN "MLLB" SHALL = the Month part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Month is represented using 2-digits ELSE "MLLB" SHALL = '88') ELSE "YLLB" SHALL = '99'</p> <p>C170-[DE-15-10] IF NOT HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Live Birth), THEN "YLLB" SHALL = '9999' AND "MLLB" SHALL = '99'</p> <p>C170-[DE-15-11] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Live Birth) AND 15.03 Result Type=ValueSet (Number of Live Births) AND Result Value = '0', THEN "YLLB" SHALL = '8888' AND "MLLB" SHALL = '88'</p>
C170[CT-076]	Date last Normal Menses began: CM_DLNM	15.03 Result Type 15.05 Result Value	R	<p>Need to get value subset for Date of Last Menses</p> <p>C170 [DE15-4] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Menses), THEN "CM_DLNM" SHALL = 15.05 Result Value WHERE 15.05 Result Value is expressed as Date</p>



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-077]	Date of Last Other Pregnancy Outcome: MOPO, YOPO	15.03 Result Type 15.05 Result Value	R	Need to get value subset for Date of Last Other Pregnancy Outcome, Number of Prior Pregnancies C170-[DE-15.12] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "YOPO" SHALL = the Year part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Year is represented using 4-digits ELSE YOPO" SHALL = '8888') ELSE "YOPO" SHALL = '9999' C170-[DE-15.13] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "MOPO" SHALL = the Month part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Month is represented using 2-digits ELSE MOPO" SHALL = '88') ELSE "MOPO" SHALL = '99'
C170[CT-078]	Facility Address	16.19 Facility Address	R	C170-[DE-1.16.19-1] "Facility Address" SHALL be populated using HITSP/C83 Section 2.1.2.16 Encounter 16.19 Facility Address
C170[CT-079]	Facility ID	16.17 Facility ID	R	C170-[DE-1.16.17-1] "Facility ID" SHALL be populated using HITSP/C83 Section 2.1.2.16 Encounter 16.17 Facility ID
C170[CT-080]	Facility Name (if Not institution, give street and number) FNAME	16.18 Facility Name	R	C170-[DE-16.18-1] "FNAME" SHALL be populated using HITSP/C83 Section 2.1.2.16 Encounter 16.18 Facility Name
C170[CT-081]	Facility National Provider Identifier FNPI	16.17 Facility ID	R	C170-[DE-4.16.17-2] "FNPI" SHALL be populated using HITSP/C83 Section 2.1.2.16 Encounter 16.17 Facility ID WHERE the ID is the National Provider ID



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-082]	Father of Hispanic Origin? FETHNIC1 FETHNIC2 FETHNIC3 FETHNIC4 FETHNIC5	18.10 Family Member Ethnicity 18.04 Family Member Relationship	R	Need Value Set Father, Hispanic Ethnicity – Not Spanish/Hispanic/Latina, Hispanic Ethnicity – Mexican/ Mexican American/ Chicana , Hispanic Ethnicity – Puerto Rican, Hispanic Ethnicity – Cuban, Hispanic Ethnicity – Other Spanish/Hispanic/Latina C170-[DE-18-1] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Ethnicity CONTAINS ValueSet (Hispanic Ethnicity - Mexican/ Mexican American/ Chicana) THEN “FETHNIC1” = ‘H’ ELSE if Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN FETHNIC1” = “N” ELSE “FETHNIC1” = ‘U’; C170-[DE-18-2] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Puerto Rican) THEN “FETHNIC2” = ‘H’ ELSE if Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN FETHNIC2” = “N” ELSE “FETHNIC2” = ‘U’; C170-[DE-18-3] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Cuban) THEN “FETHNIC3” = ‘H’ ELSE if Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN FETHNIC3” = “N” ELSE “FETHNIC3” = ‘U’; C170-[DE-18-4] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Other Spanish/Hispanic/Latina) THEN “FETHNIC4” = ‘H’ ELSE if Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN FETHNIC4” = “N” ELSE “FETHNIC4” = ‘U’; C170-[DE-18-5] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN “FETHNIC5” = 18.10 Family Member Ethnicity



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-083]	Father's Birthplace (State or Territory: FBPLACE_ST_TER_L) (Country) FBPLACE_CNT_L FBPLACE_ST_L (Code for Father's State or Territory of Birth) FBPLACE_ST_TER_C (Code for Father's Country of Birth) FBPLACE_CNT_C*	18.04 Family Member Relationship 18.03 - Family Member Demographics	R	Need Value Set Father C170-[DE- 18-6] IF] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN FBPLACE_ST_TER_L SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the State or Territory part of 18.03 - Family Member Demographics. C170-[DE-18-7] IF] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN FBPLACE_CNT_L SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Country part of 18.03 - Family Member Demographics C170-[DE- 18-8] IF] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN FBPLACE_ST_TER_C SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Coded State or Territory part of 18.03 - Family Member Demographics. C170-[DE- 18-9] IF] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN FBPLACE_CNT_C SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Coded Country part of 18.03 - Family Member Demographics



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-084]	Father's Current Legal Name* FFNAME FMNAME FLNAME FSUFF FNREF	18.04 Family Member Relationship 18.07 - Family Member Name	R	Need Value Set Father C170-[DE-18-10] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FFNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the First Name part of 18.07 - Family Member Name C170-[DE-18-11] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FMNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Middle Name part of 18.07 - Family Member Name C170-[DE-18-12] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FMNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name part of 18.07 - Family Member Name C170-[DE-18-13] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FLNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name part of 18.07 - Family Member Name C170-[DE-18-14] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FSUFF" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name Suffix part of 18.07 - Family Member Name C170-[DE-18-15] IF (18.04 Family Member Relationship) = ValueSet (Father) AND 18.07 - Family Member Name <> NULL THEN "FNREF" SHALL = 'Y' ELSE "FNREF" SHALL = 'N'
C170[CT-085]	Father's Date of Birth* FDOB_YR FDOB_MO FDOB_DY	18.04 Family Member Relationship 18.08 - Family Date of Birth From Newborn Record	R	Need Value Set Father C170-[DE-18-16] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FDOB_YR" SHALL = Year Part of 18.08 - Family Member Date of Birth WHERE the Year is represented using 4-digits C170-[DE-18-17] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FDOB_MO" SHALL = Month Part of 18.08 - Family Member Date of Birth WHERE the Month is represented using 2-digits C170-[DE-18-18] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FDOB_DY" SHALL = Day Part of 18.08 - Family Member Date of Birth WHERE the Day is represented using 2-digits
C170[CT-086]	Father's Education* FEDUC	18.04 Family Member Relationship 18.xx - Family Member Education	R	Need Value Set Father, NEED 18.xx Family Member Education C170-[DE-18-19] IF [] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FEDUC" SHALL = 18.xx Family Member Education



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-087]	Father's Race FRACE1 FRACE2 FRACE3 FRACE4 FRACE5 FRACE6 FRACE7 FRACE8 FRACE9 FRACE10 FRACE11 FRACE12 FRACE13 FRACE14 FRACE15 FRACE16 FRACE17 FRACE18 FRACE19 FRACE20 FRACE21 FRACE22 FRACE23	18.04 Family Member Relationship 18.09- Family Member Race	R	Need Value Sets Father, White Black or African American American Indian or Alaska Native Asian Indian Chinese Filipino Japanese Korean Vietnamese Other Asian Native Hawaiian Guamanian or Chamorro Samoan Other Pacific Islander Other Race C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "FRACE1" = 'Y' ELSE if Race NOT NULL THEN FRACE1" = "N" ELSE "FRACE1" = 'U' C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "FRACE2" = 'Y' ELSE if Race NOT NULL THEN FRACE2" = "N" ELSE "FRACE2" = 'U' C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "FRACE3" = 'Y' ELSE if Race NOT NULL THEN FRACE3" = "N" ELSE "FRACE3" = 'U' C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Asian Indian) THEN "FRACE4" = 'Y' ELSE if Race NOT NULL THEN FRACE4" = "N" ELSE "FRACE4" = 'U' C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Chinese) THEN "FRACE5" = 'Y' ELSE if Race NOT NULL THEN FRACE5" = "N" ELSE "FRACE5" = 'U'



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
				<p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Filipino) THEN "FRACE6" = 'Y' ELSE if Race NOT NULL THEN FRACE6" = "N" ELSE "FRACE6" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Japanese) THEN "FRACE7" = 'Y' ELSE if Race NOT NULL THEN FRACE7" = "N" ELSE "FRACE7" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Korean) THEN "FRACE8" = 'Y' ELSE if Race NOT NULL THEN FRACE8" = "N" ELSE "FRACE8" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Vietnamese) THEN "FRACE9" = 'Y' ELSE if Race NOT NULL THEN FRACE9" = "N" ELSE "FRACE9" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "FRACE10" = 'Y' ELSE if Race NOT NULL THEN FRACE10" = "N" ELSE "FRACE10" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Native Hawaiian) THEN "FRACE11" = 'Y' ELSE if Race NOT NULL THEN FRACE11" = "N" ELSE "FRACE11" = 'U'</p>



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				<p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Guamanian or Chamorro) THEN "FRACE12" = 'Y' ELSE if Race NOT NULL THEN FRACE12" = "N" ELSE "FRACE12" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Samoan) THEN "FRACE13" = 'Y' ELSE if Race NOT NULL THEN FRACE13" = "N" ELSE "FRACE13" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Pacific Islander) THEN "FRACE14" = 'Y' ELSE if Race NOT NULL THEN FRACE14" = "N" ELSE "FRACE14" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "FRACE15" = 'Y' ELSE if Race NOT NULL THEN FRACE15" = "N" ELSE "FRACE15" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "FRACE16" SHALL = 18.09- Family Member Race</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "FRACE17" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (American Indian or Alaska Native)</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "FRACE18" SHALL = 18.09- Family Member Race</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "FRACE19" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Asian)</p>



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				C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "FRACE22" SHALL = 18.09- Family Member Race C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "FRACE23" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Race)
C170[CT-088]	Father's Social Security Number* FSSN	18.04 Family Member Relationship 18.06- Family Member Identifier	R	C170-[DE-18-21] "FSSN" SHALL be populated using HITSP/C83 Section 18.04 Family Member Relationship using 18.06 Family Member Identifier where the Identifier is the Father's Social Security Number
C170[CT-089]	Infections present and treated during this pregnancy: CHAM - Chlamydia	7.04 – Problem Code		Need to get value subset for Chlamydia, Pregnant, Problem Status Active C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Chlamydia)) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant) AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "CHAM" SHALL = "Y" ELSE "N".
C170[CT-090]	Infections present and treated during this pregnancy: GON - Gonorrhea	7.04 – Problem Code 7.01 – Problem Date/Time 7.12 – Problem Status	R	Need to get value subset for Gonorrhea, Pregnant, Problem Status Active C170-[DE-7.04-#1] IF (7.04 Problem Code CONTAINS ValueSet (Gonorrhea) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant) AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "GON" SHALL = "Y" ELSE "N".
C170[CT-091]	Infections present and treated during this pregnancy: HEPB - Hepatitis B	7.04 – Problem Code		Need to get value subset for Hepatitis B, Pregnant, Problem Status Active C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Hepatitis B)) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant) AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "HEPB" SHALL = "Y" ELSE "N".
C170[CT-092]	Infections present and treated during this pregnancy: HEPC - Hepatitis C	7.04 – Problem Code		Need to get value subset for hepatitis C, Pregnant, Problem Status Active C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Hepatitis C)) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant) AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "HEPC" SHALL = "Y" ELSE "N".



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-093]	Infections present and treated during this pregnancy: NOA02 - None of the above	7.04 – Problem Code		C170-[DE-7.04-#] IF ((GON = "N") AND (SYPH = "N") AND (CHAM = "N") AND (HEPB = "N") AND (HEPCI = "N")), THEN "NOA02" SHALL = "Y".
C170[CT-094]	Infections present and treated during this pregnancy: SYPH - Syphilis	7.04 – Problem Code		Need to get value subset for Syphilis, Pregnant, Problem Status Active C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Syphilis)) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant) AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "SYPH" SHALL = "Y" ELSE "N".
C170[CT-095]	Maternal Morbidity: AINT - Admission to Intensive care [unit]	16.11 Facility Location 16.04 Encounter Date/Time 16.20 In Facility Location Duration 17.01 – Procedure ID 17.04 -Procedure Date/Time	R	Need value subset for Facility Location ICU Need value subset for delivery C170-[DE-16.11-#] IF (16.11 Facility Code CONTAINS ValueSet (Facility Location ICU) AND (17.04 procedure date/time (low) <= In Facility Location Duration (low) <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) THEN "AINT" SHALL be "Y" ELSE "N".
C170[CT-096]	Maternal Morbidity: MTR - Maternal Transfusion	17.01 – Procedure ID 17.04 -Procedure Date/Time 8.03 - Administration Timing 8.07 – Route 8.13 – Coded Product name 8.21 Indication	R	Need to get value subset for MATERNAL TRANSFUSION, whole blood, packed red blood cells Need value subset for delivery C170-[DE-8-#] IF 8.21 Indication CONTAINS ValueSet (Maternal Transfusion) AND ((8.13 Coded Product Name CONTAINS ValueSets (whole blood) OR (packed red blood cells)) AND 8.07 Route CONTAINS ValueSet (intravenous) AND (17.04 procedure date/time (low) <= 8.03 - Administration Timing <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)), THEN "MTR" SHALL be "Y" ELSE "N"
C170[CT-097]	Maternal Morbidity: NOA05 – None of the above	7.04 – Problem Code		C170-[DE-7.04-#] IF ((MTR = "N") AND (PLAC = "N") AND (RUT = "N") AND (UHYS = "N") AND (AINT = "N") AND (UOPR = "N")), THEN "NOA05" SHALL be "Y"



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-098]	Maternal Morbidity: PLAC – [Third or fourth degree] perineal laceration	7.04 – Problem Code 7.01 – Problem Date 17.01 – Procedure ID 17.04 -Procedure Date/Time	R	Need to get value subset for THIRD DEGREE PERINEAL LACERATION FOURTH DEGREE PERINEAL LACERATION. Need value subset for delivery C170-[DE-7.04-2] IF (7.04 Problem Code CONTAINS ValueSet (third degree perineal laceration) OR (fourth degree perineal laceration) AND (17.04 procedure date/time (low) <= 7.01 Problem Date <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) THEN “PLAC” SHALL be “Y” ELSE “N”
C170[CT-099]	Maternal Morbidity: RUT - Ruptured Uterus	7.04 – Problem Code 7.01 – Problem Date 17.01 – Procedure ID 17.04 -Procedure Date/Time	R	Need to get value subset for RUPTURED UTERUS Need value subset for delivery C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (ruptured uterus) AND (17.04 procedure date/time (low) <= 7.01 Problem Date <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) THEN “RUT” SHALL be “Y” ELSE “N”
C170[CT-100]	Maternal Morbidity: UHYS - Unplanned hysterectomy	17.01 - Procedure Code 17.04 - Procedure Date	R	Need to get value subset for UNPLANNED HYSTERECTOMY Need value subset for delivery C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (unplanned hysterectomy)) AND (17.04 procedure date/time (low) <= 7.01 Problem Date <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) THEN “UHYS” SHALL be “Y” ELSE “N”
C170[CT-101]	Maternal Morbidity: UOPR - Unplanned operat[ing]ion [room procedure following delivery]	16.11 Facility Location 16.20 In Facility Location Duration 17.01 Procedure Code 17.04 – Procedure Date/Time	R	Need to get value subset for VR UNPLANNED OPERATION Need value subset for Facility Location OR Need value subset for delivery C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (unplanned operation) AND (16.11 Facility Code CONTAINS ValueSet (Facility Location OR) AND (In Facility Location Duration (low) > 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) “UOPR” SHALL be “Y” ELSE “N”



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-102]	Method of Delivery: ATTF - Was delivery with [forceps attempted] but unsuccessful?	17.01 – Procedure Code	R	Need to get value subset for ATTEMPTED FORCEPS C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (attempted forceps)), THEN "ATTF" SHALL be "Y" ELSE "N".
C170[CT-103]	Method of Delivery: ATTV - [Was delivery with] vacuum [extraction] attempted [but unsuccessful?]			Need to get value subset for ATTEMPTED VACUUM C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (attempted vacuum)), THEN "ATTV" SHALL be "Y" ELSE "N".
C170[CT-104]	Method of Delivery: PRES - Fetal presentation [at birth]: Cephalic	7.04 – Problem Code		Need to get value subset for Fetal Presentation at birth- Breech, Fetal Presentation at birth- Cephalic, Fetal Presentation at birth- Other C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Fetal Presentation at birth- Cephalic) THEN "PRES" SHALL = "1" ELSE IF (7.04 Problem Code CONTAINS ValueSet (Fetal Presentation at birth- Breech) THEN "PRES" SHALL = "2" ELSE IF (7.04 Problem Code CONTAINS ValueSet (Fetal Presentation at birth- Other) THEN "PRES" SHALL = "3" ELSE "PRES" SHALL = "9"
C170[CT-105]	Method of Delivery: ROUT – [Final]Route and method of delivery	17.01 – Procedure Code		Need to get value subset for Route and Method of Delivery - Spontaneous delivery Route and Method of Delivery - Forceps delivery Route and Method of Delivery - Vacuum delivery Route and Method of Delivery - cesarean delivery C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (Route and Method of Delivery - Spontaneous delivery) THEN "ROUT" SHALL = "1" ELSE IF 17.01 Procedure Code CONTAINS ValueSet (Route and Method of Delivery - Forceps delivery) THEN "ROUT" SHALL = "2" ELSE IF 17.01 Procedure Code CONTAINS ValueSet (Route and Method of Delivery - Vacuum delivery) THEN "ROUT" SHALL = "3" ELSE IF 17.01 Procedure Code CONTAINS ValueSet (Route and Method of Delivery - cesarean delivery) THEN "ROUT" SHALL = "4" ELSE "ROUT" SHALL = "9".



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C170[CT-106]	Method of Delivery: TLAB -Trial of labor attempted	17.01 – Procedure Code 7.04 – Problem Code		Need to get value subset for TRIAL OF LABOR ATTEMPTED Need value subset for Cesarean Need value subset for Scheduled Cesarean C170-[DE-17.01-#] IF 17.01 Procedure Code CONTAINS ValueSet (Cesarean) THEN (IF (17.01 Procedure Code CONTAINS ValueSet (trial of labor attempted) THEN "TLAB" SHALL be "Y" ELSE IF 17.01 Procedure Code CONTAINS ValueSet (Scheduled Cesarean) THEN "TLAB" SHALL = "X" ELSE IF 17.04 =NULL THEN "U") ELSE "N".
C170[CT-107]	Mother: Has the mother ever been married? MARE	1.08 Marital Status	R	Need to get value subset for Previously Married, Currently Married, Never Married C170-[DE-1.08-1] IF (1.08 Marital Status CONTAINS ValueSet (Previously Married) OR ValueSet (Currently Married) THEN "MARE" SHALL = 'Y' ELSE IF 1.08 Marital Status CONTAINS ValueSet (Never Married) THEN "MARE" SHALL = 'N' ELSE "MARE" SHALL = 'U'
C170[CT-108]	Mother Married (At birth, conception, or any time between)* MARN	15.03 Result Type 15.05 Result Value	R	Need valuesets for mother married at birth, mother married at conception, mother married any time between conception and birth. C170 [DE15-3] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (mother married at birth) OR ValueSet(mother married at conception) OR ValueSet(mother married any time between conception and birth), THEN "BWG" SHALL = 15.05 Result Value WHERE 15.05 Result Value Units are expressed in grams PUBLIC COMMENT: Are these value sets available? Is this more appropriate for assessment results or as social history?



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C170[CT-109]	Mother of Hispanic Origin? METHNIC1 METHNIC2 METHNIC3 METHNIC4 METHNIC5	1.11 Ethnicity	R	Need Value Set, Hispanic Ethnicity – Not Spanish/Hispanic/Latina, Hispanic Ethnicity – Mexican/ Mexican American/ Chicana , Hispanic Ethnicity – Puerto Rican, Hispanic Ethnicity – Cuban, Hispanic Ethnicity – Other Spanish/Hispanic/Latina C170-[DE-1.11-1] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity - Mexican/ Mexican American/ Chicana) THEN "METHNIC1" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN METHNIC1" = "N" ELSE "METHNIC1" = 'U'; C170-[DE-1.11-2] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Puerto Rican) THEN "METHNIC2" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN METHNIC2" = "N" ELSE "METHNIC2" = 'U'; C170-[DE-1.11-3] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Cuban) THEN "METHNIC3" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN METHNIC3" = "N" ELSE "METHNIC3" = 'U'; C170-[DE-1.11-4] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Other Spanish/Hispanic/Latina) THEN "METHNIC4" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN METHNIC4" = "N" ELSE "METHNIC4" = 'U'; C170-[DE-1.11-5] I "FETHNIC5" SHALL = 1.11 Ethnicity
C170[CT-110]	Mother: Did the mother get WIC food for herself during this pregnancy* Question for L&D and CMHR	Not available from EHR	R	Data Entry Required



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C170[CT-111]	Mother's Current Legal Name MFNAME MMNAME MLNAME MSUFF	1.05 - Person Name	R	C170-[DE-1.05-1] "MFNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the First Name part of 1.05 - Person Name C170-[DE-1.05-2] "MMNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Middle Name part of part of 1.05 - Person Name C170-[DE-1.05-4] "MLNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Last Name part of part of 1.05 - Person Name C170-[DE-1.05-5] "MSUFF" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Last Name Suffix part of part of 1.05 - Person Name
C170[CT-112]	Mother's Date of Birth* MDOB_YR MDOB_MO MDOB_DY	1.07 Person Date of Birth		C170-[DE-1.07-1] "MDOB_YR" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using Year Part of 1.07 Person Date of Birth WHERE the Year is represented using 4-digits C170-[DE-1.07-1] "MDOB_MO" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using Month Part of 1.07 Person Date of Birth WHERE the Month is represented using 2-digits C170-[DE-1.07-3] "MDOB_DY" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using Day Part of 1.07 Person Date of Birth WHERE the Day is represented using 2-digits



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C170[CT-113]	Mother's Education* MEDUC	19.02 - Social History Type 19.04 - Social History Observed Value		<p>Need Value Set Social History Type-Education 8th grade or less, 9th through 12th grade; no diploma High school graduate or GED completed Some college credit, but not a degree Associate degree (e.g., AA, AS) Bachelor's degree (e.g., BA, AB, BS) Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA) Doctorate degree (e.g., PhD, EdD) or professional degree (e.g., MD, DDS, DVM, LLB, JD)</p> <p>C170-[DE-19.04-1] IF Section 2.2.2.19 Social History 19.02 Social History Type CONTAINS (Social History Type-Education) THEN (IF 19.04 Social History Observed Value CONTAINS ValueSet(8th grade or less) THEN "MEDUC" SHALL = "1" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(9th through 12th grade; no diploma) THEN "MEDUC" SHALL = "2" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(High school graduate or GED completed) THEN "MEDUC" SHALL = "3" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Some college credit, but not a degree) THEN "MEDUC" SHALL = "4" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Associate degree (e.g., AA, AS)) THEN "MEDUC" SHALL = "5" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Bachelor's degree (e.g., BA, AB, BS)) THEN "MEDUC" SHALL = "6" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA)) THEN "MEDUC" SHALL = "7" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA)) THEN "MEDUC" SHALL = "8" ELSE "MEDUC" SHALL = "9"</p>



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C170[CT-114]	Mother's Height HFT HIN	15.03 Result Type 15.05 Result Value Units		<p>Need the LOINC or SNOMED value set to represent Height.</p> <p>C170 [DE15-5] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Height), THEN "HFT" SHALL = feet part of 15.05 Result Value WHERE 15.05 Result Value Units are expressed in Feet and Inches</p> <p>C170 [DE15-6] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Height), THEN "HFT" SHALL = Inches part of 15.05 Result Value WHERE 15.05 Result Value Units are expressed in Feet and Inches</p>
C170[CT-115]	Mother's Mailing Address* MSTNAME MAPT MCITY MZIP MSTATE MCOUNTRY	1.03 – Person Address		<p>C170-[DE-1.03-1] "MSTNAME" SHALL be populated using Section 2.2.2.1 Personal Information using the Street part of an address 1.03 Person Address</p> <p>C170-[DE-1.03-2] "MAPT" SHALL be populated using Section 2.2.2.1 Personal Information using the Apartment part of an address 1.03 Person Address</p> <p>C170-[DE-1.03-3] "MCITY" SHALL be populated using Section 2.2.2.1 Personal Information using the City part of an address 1.03 Person Address</p> <p>C170-[DE-1.03-4] "MZIP" SHALL be populated using Section 2.2.2.1 Personal Information using the Postal Code part of an address 1.03 Person Address</p> <p>C170-[DE-1.03-5] "MSTATE" SHALL be populated using Section 2.2.2.1 Personal Information using the State part of an address 1.03 Person Address</p> <p>C170-[DE-1.03-6] "MCOUNTRY" SHALL be populated using Section 2.2.2.1 Personal Information using the Country part of an address 1.03 Person Address</p>
C170[CT-116]	Mother's medical record number MRECNUM	1.02 Person ID		<p>C170-[DE-1.02-1] "MRECNUM" SHALL be populated using Section 2.2.2.1 Personal Information using 1.02 Person ID Where Person ID represents the Mother's Medical Record Number</p>



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-117]	Mother's Name Prior to First Marriage* MFNAMEP MMNAMEP MLNAMEP MSUFFP	1.05 Patient Name	R	<p>C170-[DE-1.05-6] "MFNAMEP" SHALL be populated using The First Name part of the Patient name using HITSP/C83 Section 2.2.2.1 Personal Information 1.05 Patient Name where Name is the Mother's Name Prior to First Marriage</p> <p>C170-[DE-1.05-7] "MMNAMEP" SHALL be populated using The Middle Name part of the Patient name using HITSP/C83 Section 2.2.2.1 Personal Information 1.05 Patient Name where Name is the Mother's Name Prior to First Marriage</p> <p>C170-[DE-1.05-8] "MLNAMEP" SHALL be populated using The Last Name part of the Patient name using HITSP/C83 Section 2.2.2.1 Personal Information 1.05 Patient Name where Name is the Mother's Name Prior to First Marriage</p> <p>C170-[DE-1.05-9] "MSUFFP" SHALL be populated using The Suffix part of the Patient name using HITSP/C83 Section 2.2.2.1 Personal Information 1.05 Patient Name where Name is the Mother's Name Prior to First Marriage</p>
C170[CT-118]	Mother's pre-pregnancy weight PWGT	15.03 Result Type 15.05 Result Value	R	<p>Need the LOINC or SNOMED value set to represent Mother's pre-pregnancy weight.</p> <p>C170 [DE15-8] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Mother's Pre-pregnancy weight), THEN "PWGT" SHALL = 15.05 Result Value</p>



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-119]	Mother's Race MRACE1 MRACE2 MRACE3 MRACE4 MRACE5 MRACE6 MRACE7 MRACE8 MRACE9 MRACE10 MRACE11 MRACE12 MRACE13 MRACE14 MRACE15 MRACE16 MRACE17 MRACE18 MRACE19 MRACE20 MRACE21 MRACE22 MRACE23	1.10- Race	R	Need Value Sets Father, White Black or African American American Indian or Alaska Native Asian Indian Chinese Filipino Japanese Korean Vietnamese Other Asian Native Hawaiian Guamanian or Chamorro Samoan Other Pacific Islander Other Race C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "MRACE1" = 'Y' ELSE if Race NOT NULL THEN MRACE1" = "N" ELSE "MRACE1" = 'U' C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "MRACE2" = 'Y' ELSE if Race NOT NULL THEN MRACE2" = "N" ELSE "MRACE2" = 'U' C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "MRACE3" = 'Y' ELSE if Race NOT NULL THEN MRACE3" = "N" ELSE "MRACE3" = 'U' C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Asian Indian) THEN "MRACE4" = 'Y' ELSE if Race NOT NULL THEN MRACE4" = "N" ELSE "MRACE4" = 'U' C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Chinese) THEN "MRACE5" = 'Y' ELSE if Race NOT NULL THEN MRACE5" = "N" ELSE "MRACE5" = 'U'



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				<p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Filipino) THEN "MRACE6" = 'Y' ELSE if Race NOT NULL THEN MRACE6" = "N" ELSE "MRACE6" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Japanese) THEN "MRACE7" = 'Y' ELSE if Race NOT NULL THEN MRACE7" = "N" ELSE "MRACE7" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Korean) THEN "MRACE8" = 'Y' ELSE if Race NOT NULL THEN MRACE8" = "N" ELSE "MRACE8" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Vietnamese) THEN "MRACE9" = 'Y' ELSE if Race NOT NULL THEN MRACE9" = "N" ELSE "MRACE9" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "MRACE10" = 'Y' ELSE if Race NOT NULL THEN MRACE10" = "N" ELSE "MRACE10" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Native Hawaiian) THEN "MRACE11" = 'Y' ELSE if Race NOT NULL THEN MRACE11" = "N" ELSE "MRACE11" = 'U'</p>



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
				<p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Guamanian or Chamorro) THEN "MRACE12" = 'Y' ELSE if Race NOT NULL THEN MRACE12" = "N" ELSE "MRACE12" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Samoan) THEN "MRACE13" = 'Y' ELSE if Race NOT NULL THEN MRACE13" = "N" ELSE "MRACE13" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Pacific Islander) THEN "MRACE14" = 'Y' ELSE if Race NOT NULL THEN MRACE14" = "N" ELSE "MRACE14" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "MRACE15" = 'Y' ELSE if Race NOT NULL THEN MRACE15" = "N" ELSE "MRACE15" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "MRACE16" SHALL = 18.09- Family Member Race</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "MRACE17" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (American Indian or Alaska Native)</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "MRACE18" SHALL = 18.09- Family Member Race</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "MRACE19" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Asian)</p>



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
				C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "MRACE22" SHALL = 18.09- Family Member Race C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "MRACE23" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Race)
C170[CT-120]	Mother's Residence: Apartment or Unit Number - UNUM*	1.03 - Person Address		C170-[DE-1.03-1] "UNUM" SHALL be populated using Section 2.2.2.1 Personal Information using the Apartment part of an address 1.03 Person Address
C170[CT-121]	Mother's Residence: City, Town or Location –*: CITY	1.03 Person Address		C170-[DE-1.03-2] "CITY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.03 Person Address.
C170[CT-122]	Mother's Residence: Code for City, Town or Location –*: CITYC	1.03 Person Address		Need value set for city code C170-[DE-1.03-3] "CITYC" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City Code part of 1.03 Person Address.
C170[CT-123]	Mother's Residence: County –*: COUNTY	1.03 Person Address		C170-[DE-1.03-4] "COUNTY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.03 Person Address.
C170[CT-124]	Mother's Residence: Inside City Limits* LIMITS	1.03 - Person Address	R	C170-[DE-1.03-6] "LIMITS" SHALL be populated using Section 2.2.2.1 Personal Information using the City Limits part of an address 1.03 Person Address PUBLIC COMMENT INPUT: Are City Limits supported in the current standard?
C170[CT-125]	Mother's Residence: State* STATE	1.03 - Person Address	R	See HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address The State Component shall be coded as specified in HITSP/C80 Section 2.2.1.1.1 State
C170[CT-126]	Mother's Residence: Street and Number* STNAME STNUM	1.03 - Person Address	R	See HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address
C170[CT-127]	Mother's Residence: Zip Code* ZIP	1.03 - Person Address	R	See HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address
C170[CT-128]	Mother's Social Security Number* MSSN	1.02 - Person ID	R	C170-[DE-1.02-2] "MSSN" SHALL be populated using Section 2.2.2.1 Personal Information using 1.02 Person ID Where Person ID represents the Mother's Social Security Number



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
fC170[CT-129]	Mother: If Mother transferred for maternal medical or fetal indications for delivery, enter name of facility mother transferred from. NFACTL	16.xx Referring Facility Name	R	Need Value Set for Mother transferred Maternal Medical or Fetal Indications for Delivery Need Attribute for Referring Facility Name (Proposed Addition to HITSP/C154 and HITSP/C83) C170-[DE-16 .06-2] IF 16.06 Admission Source is value set (Mother transferred) and 7.04 Problem Code is value set (for maternal medical or fetal indications for delivery), THEN NFACTL SHALL = 16.xx Referring Facility Name ELSE NFACTL SHALL = NULL
C170[CT-130]	Mother transferred for maternal medical or fetal indications for delivery? TRAN	16.06 – Admission Source 7.04 – Problem Code	R	Need Value Set for Mother transferred, Maternal Medical or Fetal Indications for Delivery C170-[DE-16 .06-1] If 16.06 Admission Source is value set (Mother transferred) and 7.04 Problem Code is value set (for maternal medical or fetal indications for delivery), THEN TRAN SHALL = “Y” ELSE IF 16.06 NOT NULL, THEN TRAN SHALL = “N” ELSE TRAN SHALL = “U”.
C170[CT-131]	Mother: Date signed request for SSN (for infant)*	Not available from EHR	R	Data Entry Required
C170[CT-132]	Mother's weight at delivery DWGT	15.03 Result Type 15.05 Result Value	R	Need the LOINC or SNOMED value set to represent Mother's weight at delivery C170 [DE15-9] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Mother's weight at delivery), THEN “DWGT” SHALL = 15.05 Result Value
C170[CT-133]	Name of person providing information for the mother's worksheet.*	Not available in EHR	R	Data Entry Required
C170[CT-134]	Number of other pregnancy outcomes POPO	15.03 Result Type 15.05 Result Value	R	Need LOINC or SNOMED value set to represent Previous other pregnancy outcomes C170 [DE15-12] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Previous other pregnancy outcomes), THEN “POBO” SHALL = 15.05 Result Value



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-135]	Number of previous live births now dead (do not include this child) PLBD	15.03 Result Type 15.05 Result Value	R	Need LOINC or SNOMED value set to represent Number of Previous Live Births now Dead C170 [DE15-10] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Previous Live Births now Dead), THEN "PLBD" SHALL = 15.05 Result Value
C170[CT-136]	Number of previous live births now living (do not include this child) PLBL	15.03 Result Type 15.05 Result Value	R	Need LOINC or SNOMED value set to represent Number of Previous Live Births now Living C170 [DE15-11] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Previous Live Births now Living), THEN "PLBL" SHALL = 15.05 Result Value
C170[CT-137]	Obstetric Estimate of Gestation-OWGEST	15.03 Result Type 15.05 Result Value	R	Need LOINC or SNOMED value set to represent Obstetric Estimate of Gestation C170 [DE15-13] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Obstetric Estimate of Gestation), THEN "OWGEST" SHALL = 15.05 Result Value
C170[CT-138]	Obstetric procedures: CERV- Cervical cerclage CERV	17.01 – Procedure Code	R	Need LOINC or SNOMED value set to represent Obstetric Procedures Cervical Cerclage C170 [DE-17.01-2] IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code CONTAINS ValueSet (Obstetric Procedures Cervical Cerclage), THEN "CERV" SHALL = 'Y' ELSE IF 17.01 Procedure Code = NULL THEN 'U' ELSE 'N'
C170[CT-139]	Obstetric procedures: ECVF - Failed External cephalic Version ECVF	17.01 – Procedure Code	R	Need LOINC or SNOMED value set to represent Failed External cephalic version C170 [DE-17.01-5] IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code CONTAINS ValueSet (Failed External cephalic version), THEN "ECVF" SHALL = 'Y' ELSE IF 17.01 Procedure Code = NULL THEN 'U' ELSE 'N'



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-140]	Obstetric procedures: ECVS - Successful External cephalic version ECVS	17.01 – Procedure Code	R	Need LOINC or SNOMED value set to represent Successful External cephalic version C170 [DE-17.01-4] IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code CONTAINS ValueSet (Successful External cephalic version), THEN "ECVS" SHALL = 'Y' ELSE IF 17.01 Procedure Code = NULL THEN 'U' ELSE 'N'
C170[CT-141]	Obstetric procedures: NOA03 - None of the above	17.01 – Procedure Code		Need to get value subsets for Obstetric Procedures Cervical Cerclage Obstetric Procedures Tocolysis Successful External cephalic version Failed External cephalic version C170-[DE-17.01-6] IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code NOT (CONTAINS ValueSet (Obstetric Procedures Cervical Cerclage) OR ValueSet(Obstetric Procedures Tocolysis) OR ValueSet(Successful External cephalic version) OR ValueSet(Failed External cephalic version)) THEN THEN "NOA03" SHALL = "Y" ELSE "N".
C170[CT-142]	Obstetric procedures: TOC – Tocolysis TOC	17.01 – Procedure Code	R	Need LOINC or SNOMED value set to represent Obstetric Procedures Tocolysis C170 [DE-17.01-3] IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code CONTAINS ValueSet (Obstetric Procedures Tocolysis), THEN "TOC" SHALL = 'Y' ELSE IF 17.01 Procedure Code = NULL THEN 'U' ELSE 'N'



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-143]	Onset of labor PROM PRIC PROL NOA05	7.04 - Problem Code	R	<p>Need the LOINC or SNOMED value set to represent Premature rupture Precipitous labor Prolonged labor</p> <p>C170 [DE-7.04-5] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Premature rupture), THEN "PROM" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PROM" SHALL = 'U' ELSE "PROM" SHALL = 'N'</p> <p>C170 [DE-7.04-6] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Precipitous labor), THEN "PRIC" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PRIC" SHALL = 'U' ELSE "PRIC" SHALL = 'N'</p> <p>C170 [DE-7.04-7] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Prolonged labor), THEN "PROL" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PROL" SHALL = 'U' ELSE "PROL" SHALL = 'N'</p> <p>C170-[DE-7.04-8] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code NOT (CONTAINS ValueSet (Premature rupture) OR ValueSet(Precipitous labor) OR ValueSet(Prolonged labor) THEN "NOA05" SHALL = "Y" ELSE IF 7.04 Problem Code = 'NULL' THEN "NOA05" SHALL = 'U' ELSE "N".</p>
C170[CT-144]	Paternity Acknowledgement Signed*	Not available from EHR	R	Data Entry Required



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-145]	Place where birth occurred FNAME FNPI SFN FLOC CNAME CNTYO BPLACE	1.16 Birth Place	R	Need Value Set Vital Records Birth Place C170 [DE-1.16-1] "FNAME" SHALL = Facility Name part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place taken from the newborn's record C170 [DE-1.16-2] "FNPI" SHALL = Facility ID part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place WHERE Facility ID is the NPI taken from the newborn's record C170 [DE-1.16-3] "SFN" SHALL = Facility ID part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place WHERE Facility ID is the State Facility Number taken from the newborn's record C170 [DE-1.16-4] "FLOC" SHALL = City/Town part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place taken from the newborn's record C170 [DE-1.16-5] "CNAME" SHALL = County name part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place taken from the newborn's record C170 [DE-1.16-6] "CNTYO" SHALL = County Code part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place taken from the newborn's record C170 [DE-1.16-6] "BPLACE" SHALL = Birth Place part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place using ValueSet(Vital Records Birth Place)
C170[CT-146]	Plurality PLUR	15.03 Result Type 15.05 Result Value	R	Need LOINC or SNOMED value set to represent Birth Plurality of Delivery C170 [DE15-14] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Birth Plurality of Delivery), THEN "PLUR" SHALL = 15.05 Result Value



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-147]	Prenatal care visits: Date of first prenatal care visit: DOFP_MO DOFP_DY DOFP_YR	15.03 Result Type 15.05 Result Value	R	<p>Need to get value subset for Date of First Prenatal Care Visit Need to get value subset for No Prenatal Care</p> <p>C170-[DE-15.5] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of First Prenatal Care Visit), THEN "DOFP_YR" SHALL = the Year part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Year is represented using 4-digits ELSE IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (No Prenatal Care) THEN "DOFP_YR" SHALL = '8888' ELSE "DOFP_YR" SHALL = '9999'</p> <p>C170-[DE-15-6] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of First Prenatal Care Visit), THEN "DOFP_MO" SHALL = the Month part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Month is represented using 2-digits ELSE IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (No Prenatal Care) THEN "DOFP_MO" SHALL = '88' ELSE "DOFP_MO" SHALL = '99'</p> <p>C170-[DE-15-7] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of First Prenatal Care Visit), THEN "DOFP_DY" SHALL = the Day part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Day is represented using 2-digits ELSE IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (No Prenatal Care) THEN "DOFP_DY" SHALL = '88' ELSE "DOFP_DT" SHALL = '99'</p>



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-148]	Prenatal care visits: Date of last prenatal care visit DOLP_MO DOLP_DY DOLP_YR	15.03 Result Type 15.05 Result Value	R	Need to get value subset for Date of Last Prenatal Care Visit, No Prenatal Care C170-[DE-15.16] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "DOLP_YR" SHALL = the Year part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Year is represented using 4-digits ELSE DOLP_YR" SHALL = '8888') ELSE "DOLP_YR" SHALL = '9999' C170-[DE-15-17] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "DOLP_MO" SHALL = the Month part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Month is represented using 2-digits ELSE DOLP_MO" SHALL = '88') ELSE "DOLP_MO" SHALL = '99' C170-[DE-15-18] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "DOLP_DY" SHALL = the Day part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Day is represented using 2-digits ELSE DOLP_DY" SHALL = '88') ELSE "DOLP_DY" SHALL = '99'
C170[CT-149]	Prenatal care visits: Total number of prenatal visits for this pregnancy - NPREV	15.03 Result Type 15.05 Result Value	R	Need LOINC or SNOMED value set to represent Number of Prenatal Visits for this Pregnancy C170 [DE15-16] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Prenatal Visits for this Pregnancy), THEN "NPREV" SHALL = 15.05 Result Value
C170[CT-150]	Principal source of payment for this delivery PAY	5.02 Health Insurance Type	R	C170 [DE5.02-1] "PAY" SHALL = HITSP/C83 Section 2.2.1.1 Payers Section 5.02 Health Insurance Type
C170[CT-151]	Relationship to mother for the person completing the mother's worksheet*	Not available from EHR	R	Data Entry Required
C170[CT-152]	Registrar: Date filed by Registrar* FIL_YR FIL_MT FIL_DY	Not available from EHR	R	



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
C170[CT-153]	Risk factors in this pregnancy PDIAB GDIAB PHYPE GHYPE EHYPE PPB PPO VB INFT INFT_DRG INFT_ART PCES NPCES NOA01	7.04 Problem Code 15.03 Result Type 15.05 Result Value 8.13 Coded Product Name	R	<p>Need Value Sets: Prepregnancy diabetes Gestational diabetes Prepregnancy hypertension Gestational hypertension Eclampsia Previous preterm births Poor pregnancy outcomes Vaginal bleeding Infertility treatment Infertility: Fertility Enhancing Drugs Infertility: Asst. Rep. Technology Previous cesarean Number of previous cesareans</p> <p>C170 [DE-7.04-9] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Prepregnancy diabetes), THEN "PDIAB" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PDIAB" SHALL = 'U' ELSE "PDIAB" SHALL = 'N'</p> <p>C170 [DE-7.04-10] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Gestational diabetes), THEN "GDIAB" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "GDIAB" SHALL = 'U' ELSE "GDIAB" SHALL = 'N'</p> <p>C170 [DE-7.04-11] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Prepregnancy hypertension), THEN "PHYPE" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PHYPE" SHALL = 'U' ELSE "PHYPE" SHALL = 'N'</p> <p>C170 [DE-7.04-12] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Gestational hypertension), THEN "GHYPE" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "GHYPE" SHALL = 'U' ELSE "GHYPE" SHALL = 'N'</p> <p>C170 [DE-7.04-13] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Eclampsia), THEN "EHYPE" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "EHYPE" SHALL = 'U' ELSE "EHYPE" SHALL = 'N'</p>



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
				<p>C170 [DE-7.04-14] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Previous preterm births) THEN "PPB" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PPB" SHALL = 'U' ELSE "PPB" SHALL = 'N'</p> <p>C170 [DE-7.04-15] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Poor pregnancy outcomes) THEN "PPO" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PPO" SHALL = 'U' ELSE "PPO" SHALL = 'N'</p> <p>C170 [DE-7.04-16] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Vaginal bleeding) THEN "VB" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "VB" SHALL = 'U' ELSE "VB" SHALL = 'N'</p> <p>C170 [DE-7.04-17] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Infertility treatment) THEN "INFT" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "INFT" SHALL = 'U' ELSE "INFT" SHALL = 'N'</p> <p>C170 [DE-7.04-17] IF HITSP/C83 Section 2.2.1.13 Admission Medications History Section 8.13 Coded Product Name CONTAINS ValueSet (Infertility: Fertility Enhancing Drugs) THEN "INFT_DRG" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "INFT_DRG" SHALL = 'U' ELSE "INFT_DRG" SHALL = 'N'</p> <p>C170 [DE-7.04-18] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Infertility: Asst. Rep. Technology) THEN "INFT_ART" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "INFT_ART" SHALL = 'U' ELSE "INFT_ART" SHALL = 'N'</p> <p>C170 [DE-7.04-19] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Previous cesarean) THEN "PCES" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PCES" SHALL = 'U' ELSE "PCES" SHALL = 'N'</p> <p>C170 [DE-15-15] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of previous cesareans), THEN "NPCES" SHALL = 15.05 Result Value</p>



Constraint ID	U.S. Standard Certificate of Live Birth Data Elements ¹	HITSP Data Element Identifier and Name	Optionality	Additional Specifications
				C170-[DE-7.04-9] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code NOT (CONTAINS ValueSet (Prepregnancy diabetes) OR ValueSet(Gestational diabetes) OR ValueSet(Prepregnancy hypertension) OR ValueSet(Gestational hypertension) OR ValueSet(Eclampsia) OR ValueSet(Previous preterm births) OR ValueSet(Poor pregnancy outcomes) OR ValueSet(Vaginal bleeding) OR ValueSet(Infertility treatment) OR ValueSet(Infertility: Fertility Enhancing Drugs) OR ValueSet(Infertility: Asst. Rep. Technology) OR ValueSet(Previous cesarean) THEN "NOA05" SHALL = "Y" ELSE IF 7.04 Problem Code = 'NULL' THEN "NOA01" SHALL = 'U' ELSE "N".
C170[CT-1 54]	SET ID (matching ID number) MATCH			
C170[CT-155]	Set Order SORD	1.13 Multiple Birth 1.14 Birth Order	R	C170-[DE-1.14-1] IF HITSP/C83 Section 2.2.2.1 Personal Information using 1.13 Multiple Birth = 'Y' THEN "SORD" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using 1.14 Birth Order AND using '99' where not known ELSE IF Multiple Birth = 'N' "SORD" SHALL = '88'
C170[CT-156]	Signature of person requesting SSN*	Not available from EHR	R	Data Entry Required
C170[CT-157]	Social Security Number requested for child* SSNR	Not available from EHR	R	Data Entry Required

Optionality Legend: "R" for Required, "O" for Optional, or "C" for Conditional

Table 2-3 Fetal Death Report Data Mapping

Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-158]	Attendant's name: ATTENDN	4.07 - Provider Name 17.01 – Procedure ID		C170-[DE-4.07-1] "ATTENDN" SHALL be populated using HITSP/C83 Section 2.2.1.45 Procedures and Interventions using 4.07 Provider Name WHERE 17.01 Procedure ID contains ValueSet (Delivery).

² This data item **SHALL NOT** be populated as described in the HITSP requirements according to NCHS/CDC recommendations although the EHR may have the capability of pre-populating this data element.



Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-159]	Attendant's title: ATTEND	4.04 – Provider Type 17.01 – Procedure ID		Need Value set for MD, DO, CNM/CM, Other midwife for VR Attendant Title C170-[DE-4.04-1] IF 17.01 Procedure ID CONTAINS ValueSet (Delivery), THEN IF 4.04 Provider Type CONTAINS ValueSet (MD), THEN "ATTEND" SHALL = "1", ELSE IF 4.04 Provider Type CONTAINS ValueSet (DO), THEN "ATTEND" SHALL = "2", ELSE IF 4.04 Provider Type CONTAINS ValueSet (CNM_CM), THEN "ATTEND" SHALL = "3", ELSE IF 4.04 Provider Type CONTAINS ValueSet (Other midwife), THEN "ATTEND" SHALL = "4", ELSE IF 4.04 Provider Type NOT NULL THEN "ATTEND" SHALL = "5", ELSE "ATTEND" SHALL = "9". C170-[DE-4.04-2] SHALL be populated using HITSP/C83 Section 2.2.2.8 List of Surgeries using 4.04 Provider Type WHERE 17.01 Procedure ID contains Valueset (Delivery).
C170[CT-160]	Attendant: Other specified ATTENDS	4.04 – Provider Type 17.01 – Procedure ID	R	Need Value set for VR Attendant NPI C170-[DE-4.04-3] IF 17.01 Procedure ID CONTAINS ValueSet (Delivery) AND "ATTEND" = "5", THEN ATTENDS SHALL = 4.04 Provider Type. PUBLIC COMMENT INPUT Welcome
C170[CT-161]	Attendant's NPI: NPI	4.10 – National Provider ID 17.01 – Procedure ID	R	Need Value set for VR Attendant NPI C170-[DE-4.10-1] "NPI" SHALL be populated using HITSP/C83 Section 2.2.2.8 List of Surgeries using 4.10 National Provider ID WHERE 17.01 Procedure ID contains ValueSet (Delivery).
C170[CT-162]	Birthplace – Mother's state of birth: BPLACE_ST *	1.16 Birth Place	R	C170-[DE-1.16-1] IF born in the United States, THEN "BPLACE_ST" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the state part of 1.16 Birth Place.
C170[CT-163]	Birthplace – Mother's territory of birth: BPLACE_TER*	1.16 Birth Place	R	Need a valueset for U.S. Territories C170-[DE-1.16-2] IF born in the United States Territories, THEN "BPLACE_TER" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the U.S. Territories part of 1.16 Birth Place.
C170[CT-164]	Birthplace – Mother's country of birth: BPLACE_CNT *	1.16 Birth Place	R	C170-[DE-1.16-3] IF NOT born in the United States, THEN "BPLACE_CNT" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the country part of 1.16 Birth Place.



Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-165]	Birthplace – Code for Mother's state or territory of birth: BPLACEC_ST_TER *	1.16 Birth Place	R	C170-[DE- 1.16-4] IF born in the United States OR United States Territories, THEN "BPLACEC_ST_TER" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the state part of 1.16 Birth Place.
C170[CT-166]	Birthplace – Code for Mother's country of birth: BPLACEC_CNT*	1.16 Birth Place	R	C170-[DE- 1.16-5] "BPLACEC_CNT" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the country part of 1.16 Birth Place.
C170[CT-167]	Cigarette smoking before and during pregnancy: Number of cigarettes smoked prior to pregnancy: CIGPN*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use Pre-Pregnancy-cigarettes C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Pre-Pregnancy-cigarettes), THEN "CIGPN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes, and using '99' where quantity is unknown PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use Pre-Pregnancy-cigarettes'?
C170[CT-168]	Cigarette smoking before and during pregnancy: Number of packs of cigarettes smoked prior to pregnancy: CIGPP*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use Pre-Pregnancy-packs C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Pre-Pregnancy-packs) AND NOT 9.01 Pregnancy, THEN "CIGPP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs, and using '99' where quantity is unknown PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use Pre-Pregnancy-packs'?
C170[CT-169]	Cigarette smoking before and during pregnancy: Number of cigarettes smoked in 1 st three months of pregnancy: CIGFN*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use first trimester-cigarettes C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use first trimester-cigarettes) THEN "CIGFN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes, and using '99' where quantity is unknown PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use first trimester-cigarettes'?



Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-170]	Cigarette smoking before and during pregnancy: Number of packs of cigarettes smoked in the first three months of pregnancy: CIGFP*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use first trimester-packs C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use first trimester-packs) THEN "CIGFP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs, and using '99' where quantity is unknown PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use first trimester-packs'?
C170[CT-171]	Cigarette smoking before and during pregnancy: Number of cigarettes smoked in the 2 nd three months of pregnancy: CIGSN*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use second trimester-cigarettes C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use second trimester-cigarettes) THEN "CIGSN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes, and using '99' where quantity is unknown PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use second trimester-cigarettes'?
C170[CT-172]	Cigarette smoking before and during pregnancy: Number of packs of cigarettes smoked in the 2 nd three months of pregnancy: CIGSP*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use second trimester-packs C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use second trimester-packs) THEN "CIGSP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs, and using '99' where quantity is unknown PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use second trimester-packs'?



Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-173]	Cigarette smoking before and during pregnancy: Number cigarettes smoked in 3 rd three months of pregnancy: CIGLN*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use third trimester-cigarettes C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Third Trimester) AND 9.01 Pregnancy, THEN "CIGLN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes, and using '99' where quantity is unknown PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use third trimester-cigarettes'?
C170[CT-174]	Cigarette smoking before and during pregnancy: Number of packs of cigarettes smoked in the 3 rd three months of pregnancy: CIGLP*	19.02 Social History Type 19.04 Social History Observed Value 9.01 Pregnancy	R	Need a value subset for Tobacco Use third trimester-packs C170-[DE- 19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Third Trimester) AND 9.01 Pregnancy, THEN "CIGLP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs, and using '99' where quantity is unknown PUBLIC COMMENT WELCOME: Is a new code required to support the value set 'Tobacco Use third trimester-packs'?
C170[CT-176]	Congenital Anomalies of the Fetus			See: C170[CT-057] C170[CT-058] C170[CT-059] C170[CT-060] C170[CT-061] C170[CT-062] C170[CT-063] C170[CT-064] C170[CT-065] C170[CT-066] C170[CT-067] C170[CT-068] C170[CT-069] C170[CT-070] C170[CT-071] C170[CT-072] C170[CT-073] C170[CT-074]
C170[CT-177]	Date of Delivery FDOD_YR FDOD_MO FDOD_DY	17.01 Procedure Code 17.04 - Procedure Date/Time		Need a valueset for Delivery. IF 17.01 Procedure ID CONTAINS ValueSet (Delivery) THEN "TD" SHALL = 17.04 Procedure Date/Time



Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-178]	Date of last live birth: YLLB MLLB			See C170[CT-078]
C170[CT-179]	Date last Normal Menses began: CM_DLNM	15.03 Result Type 15.05 Result Value	R	Need to get value subset for Date of Last Menses C170 [DE15-4] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Menses), THEN "CM_DLNM" SHALL = 15.05 Result Value WHERE 15.05 Result Value is expressed as Date
C170[CT-180]	Date of Last Other Pregnancy Outcome: MOPO, YOPO			See C170[CT-079]
C170[CT-181]	Date Received by Registrar: MM___/DD___/YYYY___*	Not Available in EHR		
C170[CT-182]	Date Report Completed: MM___/DD___/YYYY___*	Not Available in EHR		
C170[CT-183]	Delivery: City, Town or Location: FLOC	1.16 Birth Place		C170-[DE-1.16-6] "FLOC" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.16 Birth Place.
C170[CT-184]	Delivery: County: CNAME	1.16 Birth Place		C170-[DE-1.16-7] "CNAME" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.16 Birth Place of fetal record.
C170[CT-185]	Delivery: Zip Code	No variable in NCHS ES		
C170[CT-186]	Estimated Time of Fetal Death: ETIME	15.03 Result Type 15.05 Result Value Units		Need the LOINC or SNOMED value set to represent Fetal Death C170 [DE15-5] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Fetal Death), THEN "ETIME" SHALL = 15.05 Result Value WHERE 15.05 Result Value is expressed as date/time
C170[CT-187]	Facility Address	16.19 Facility Address		See C170 [CT-078]
C170[CT-188]	Facility ID	16.17 Facility ID		See C170 [CT-079]
C170[CT-189]	Facility Name (if Not institution, give street and number) FNAME	16.18 Facility Name		See C170 [CT-080]
C170[CT-190]	Facility National Provider identifier FNPI	16.17 Facility ID		See C170 [CT-081]



Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT - 191]	Father's Birthplace Father's Birthplace (State or Territory: FBPLACE_ST_TER_L) (Country) FBPLACE_CNT_L FBPLACE_ST_L (Code for Father's State or Territory of Birth) FBPLACE_ST_TER_C (Code for Father's Country of Birth) FBPLACE_CNT_C*			See C170 [CT-083]
C170[CT-192]	Father's Current Legal Name* FFNAME FMNAME FLNAME FSUFF FNREF			See C170[CT-084]
C170[CT-193]	Father's Date of Birth* FDOB_YR FDOB_MO FDOB_DY			See C170[CT-085]
C170[CT-194]	If Not single birth - specify number of infants in this delivery born alive.	15.03 Result Type 15.05 Result Value Units		Need the LOINC or SNOMED value set to represent Number of Live Births this Delivery C170 [DE15-x] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Live Births this Delivery), THEN SHALL = 15.05 Result Value
C170[CT-195]	Infections present and or treated during this pregnancy. Check all that apply.			See : C170[CT-089] C170[CT-090] C170[CT-091] C170[CT-092] C170[CT-093] C170[CT-094]
C170[CT-196]	Initiating Cause/Condition: Maternal condition/Diseases* (Specify)	Not Available from EHR		Data Entry Required
C170[CT-197]	Maternal Morbidity			See: C170[CT-095] C170[CT-096] C170[CT-097] C170[CT-098] C170[CT-099] C170[CT-100] C170[CT-101]
C170[CT-198]	Method of Delivery			See: C170[CT-102] C170[CT-103] C170[CT-104] C170[CT-105] C170[CT-106]



Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-199]	Method of Delivery: Hysterotomy/Hysterectomy? HYST	15.03 Result Type 15.05 Result Value Units		Need the LOINC or SNOMED value set to represent Hysterotomy/Hysterectomy C170 [DE15-x] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Hysterotomy/Hysterectomy), THEN "HYST" SHALL = 15.05 Result Value
C170[CT-200]	Method of Disposition DISP	Not available from EHR		
C170[CT-201]	Mother: Has the mother ever been married?*			See C170[CT-107]
C170[CT-202]	Mother Married (At birth, conception, or any time between) MARN*			See C170[CT-108]
C170[CT-203]	Mother of Hispanic Origin?*			See C170[CT-109]
C170[CT-204]	Mother: Did the mother get WIC food for herself during this pregnancy: WIC*	Not Available in EHR		
C170[CT-205]	Mother's current legal name (first, middle, last, suffix)			See C170[CT-111]
C170[CT-206]	Mother's Date of Birth* MDOB_YR MDOB_MO MDOB_DY			See C170[CT-112]
C170[CT-207]	Mother's Education*			See C170[CT-113]
C170[CT-208]	Mother's Height			See C170[CT-114]
C170[CT-209]	Mother's Medical Record Number			See C170[CT-045]
C170[CT-210]	Mother's name prior to first marriage (first, middle, last suffix)*			See C170[CT-117]
C170[CT-211]	Mother's prepregnancy weight			See C170[CT-118]
C170[CT-212]	Mother's Race			See C170[CT-119]
C170[CT-213]	Mother's Residence: Apartment or Unit Number - UNUM*	1.03 - Person Address		C170-[DE-1.03-1] "UNUM" SHALL be populated using Section 2.2.2.1 Personal Information using the Apartment part of an address 1.03 Person Address
C170[CT-214]	Mother's Residence: City, Town or Location - CITY*	1.03 Person Address		C170-[DE-1.03-2] "CITY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.03 Person Address.
C170[CT-215]	Mother's Residence: Code for City, Town or Location - CITYC*	1.03 Person Address		Need value set for city code C170-[DE-1.03-3] "CITYC" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City Code part of 1.03 Person Address.
C170[CT-216]	Mother's Residence: County - COUNTY*	1.03 Person Address		C170-[DE-1.03-4] "COUNTY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.03 Person Address.



Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-217]	Mother's Residence: Inside City Limits*: _Yes; _No LIMITS			See C170[CT-124]
C170[CT-218]	Mother's Residence – State STATE*			See C170[CT-125]
C170[CT-219]	Mother's Residence: Street and Number* STNAME STNUM			See C170[CT-126]
C170[CT-220]	Mother's Residence: Zip Code; ZIP*			See C170[CT-127]
C170[CT-221]	Mother: If mother transferred for maternal or fetal indications for delivery, enter name of facility mother transferred from			See C170[CT-129]
C170[CT-222]	Mother transferred for maternal medical or fetal indications for delivery?			See C170[CT-130]
C170[CT-223]	Mother's weight at delivery			See C170[CT-132]
C170[CT-224]	Name and Title of Person Completing Report* REPFNAME REPLNAME REPTITLE	Not available from EHR		
C170[CT-225]	Name of Fetus(optional at the discretion of the parents)* FNAME MNAME LNAME SUFF FOUND	Not available from EHR		
C170[CT-226]	Number of other pregnancy outcomes POPO	15.03 Result Type 15.05 Result Value	R	Need LOINC or SNOMED value set to represent Other Pregnancy Outcomes C170 [DE15-11] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Other Pregnancy Outcomes), THEN SHALL = 15.05 Result Value
C170[CT-227]	Number of previous live births Now Dead (do not include this fetus)			See C170[CT-135]
C170[CT-228]	Number of previous live births Now Living (do not include this fetus)	15.03 Result Type 15.05 Result Value		See C170[CT-136]
C170[CT-229]	Obstetric Estimate of Gestation at Delivery OWGEST	15.03 Result Type 15.05 Result Value		See C170 [CT-137]
C170[CT-230]	Other Significant Causes or Condition: Maternal Condition/Diseases (Specify)*	Not Available from EHR		
C170[CT-231]	Patient's Mailing Address*	NOTE: On patient worksheet – no variable		See C170[CT-115]
C170[CT-232]	Place where delivery occurred	NOTE: Not in NCHS ES		See C170[CT-152]
C170[CT-233]	Plurality: single; twin; triplet, etc.			See C170[CT-146]



HITSP Vital Records Pre-Populate Component (Provisional)

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Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-234]	Prenatal care visits: Date of first prenatal care visit: DOFP_MO DOFP_DY DOFP_YR			See C170[CT-147]
C170[CT-235]	Prenatal care visits: Date of last prenatal care visit DOLP_MO DOLP_DY DOLP_YR			See C170[CT-148]
C170[CT-236]	Prenatal care visits: Total number of prenatal visits for this pregnancy			See C170[CT-148]
C170[CT-237]	Risk factors in this pregnancy			See C170[CT-153]
C170[CT-238]	Risk factors in this pregnancy: How many C/S?	15.03 Result Type 15.05 Result Value Units		Need the LOINC or SNOMED value set to represent Number of Cesarean Sections C170 [DE15-x] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Cesarean Sections), THEN SHALL = 15.05 Result Value
C170[CT-239]	SET ID (matching ID number) MATCH			See C170[CT-154]
C170[CT-240]	Set Order SORD	1.14 - Birth Order from fetus record if available		See C170[CT-155]
C170[CT-241]	Sex (M,F,Unk)			See C170[CT-046]
C170[CT-242]	Time of delivery	15.03 Result Type 15.05 Result Value		Need LOINC or SNOMED value set to represent Time of Delivery C170 [DE15-XX] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Time of Delivery), THEN "TD" SHALL = 15.05 Result Value
C170[CT-243]	Total number of Prenatal visits for this pregnancy			See C170[CT-164]
C170[CT-244]	Was a Histological Placental Examination performed?	17.01 -Procedure ID		Need to get value subset for Histological Placental Examination C170-[DE-17-x] IF (17.01 Procedure ID CONTAINS ValueSet (Histological Placental Examination) THEN "HISTOP" SHALL = "Y" ELSE "N".
C170[CT-245]	Was an autopsy performed?	17.01 -Procedure ID		Need to get value subset for Fetal Autopsy C170-[DE-17-x] IF (17.01 Procedure ID CONTAINS ValueSet (Fetal Autopsy) THEN "AUTOP" SHALL = "Y" ELSE "N".
C170[CT-246]	Weight of Fetus (grams preferred, specify unit)	15.03 Result Type 15.05 Result Value		Need LOINC or SNOMED value set to represent Weight of Fetus C170 [DE15-XX] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Weight of Fetus THEN "FWG" SHALL = 15.05 Result Value WHERE units are specified in Grams



Constraint ID	U.S. Standard Fetal Death Report Data Element ²	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-247]	Were autopsy or Histological placental examination results used in determining the cause of fetal death?	Not available from EHR		

Optionality Legend: "R" for Required, "O" for Optional, or "C" for Conditional

Table 2-4 Death Report Data Mapping

Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-300]	Autopsy performed? – AUTOP Autopsy Finding Available? – AUTOPF*	17.01 -Procedure ID		Need to get value subset for Autopsy C170-[DE-17-x] IF (17.01 Procedure ID CONTAINS ValueSet (Autopsy) THEN "AUTOP" SHALL = "Y" ELSE "N". C170-[DE-17-x] IF "AUTOP" = "Y" THEN "AUTOPF" SHALL = NOT NULL NOTE – May not be noted in EHR
C170[CT-301]	Cause of Death: Immediate Cause (Final disease or condition resulting in death) – CODIa* (literal) Duration line a, part I – INTIa*	Not available from EHR		Data Entry Required
C170[CT-302]	Cause of Death: Sequentially list conditions, if any, leading to the cause listed on line a. Enter the UNDERLYING CAUSE (disease or injury that initiated the events resulting in death) Last – (literal) Info reported on line b of the death certificate, part I – CODIb*, Info reported on line c, part I – CODIc*, Info reported on line d, part I – CODId* Duration line b, part I – INTIb*, Duration line c, part I – INTIc*, Duration line d, part I – INTId*	Not available from EHR		Data Entry Required
C170[CT-304]	Cause of Death – Other significant conditions contributing to death but not resulting in the underlying cause – CODII* (literal)	Not available from EHR		Data Entry Required
C170[CT-305]	Certifier (role) – NO VARIABLE IN NCHS Edit Specs*	Not available from EHR		Data Entry Required ValueSet Certifying physician Pronouncing & Certifying Physician Medical Examiner/Coroner

³ This data item **SHALL NOT** be populated as described in the HITSP requirements according to NCHS/CDC recommendations although the EHR may have the capability of pre-populating this data element.



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-306]	Certifier signature – NO VARIABLE IN NCHS Edit Specs*	Not available from EHR		Data Entry Required
C170[CT-307]	County of Death – COD*	Not available from EHR		Data Entry Required
C170[CT-308]	Date Death Record Certified CERT_YR *(Year certified), CERT_MO *(Month certified), CERT_DY *(Day certified)	Not available from EHR		Data Entry Required
C170[CT-309]	Date of Death (Actual or Presumed): Year of death – DOD_YR, Month of death – DOD_MO, Day of death – DOD_DY	7.09 – Time of Death		
C170[CT-310]	Date of Injury – Year of injury – DOI_YR*, Month of injury – DOI_MO*, Day of injury – DOI_DY*	Not available from EHR		Data Entry Required
C170[CT-311]	Date Pronounced Dead: Year Pronounced Dead – PD_YR*, Month Pronounced Dead – PD_MO*, Day Pronounced Dead – PD_DY*	Not available from EHR		Data Entry Required
C170[CT-312]	Date Death Record Signed by Person Pronouncing Death: Year signed – SIGN_YR*, Month signed – SIGN_MO*, Day signed – SIGN_DAY*	Not available from EHR		Data Entry Required
C170[CT-313]	Decedent's Age - under 1 day (hours/minutes) – AGETYPE*	Not available from EHR		Data Entry Required
C170[CT-314]	Decedent's Age - under 1 year (months/days) – AGETYPE*	Not available from EHR		Data Entry Required
C170[CT-315]	Decedent's Age-Last Birthday(years) – AGE* and AGETYPE* (years)	Not available from EHR		Data Entry Required
C170[CT-316]	Decedent's Date of Birth (Mo/Day/Yr) – DOB_YR, DOB_MO, DOB_DY	1.07 - Birth Date Time		<p>C170-[DE-1.07-x] "DOB_YR" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Year part of 1.07 Birth Date Time</p> <p>C170-[DE-1.07-x] "DOB_MO" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Month part of 1.07 Birth Date Time</p> <p>C170-[DE-1.07-x] "DOB_DY" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Day part of 1.07 Birth Date Time</p>



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-317]	Decedent's Date of Birth (Mo/Day/Yr) – DOB_YR, DOB_MO, DOB_DY	1.07 - Birth Date Time		<p>C170-[DE-1.07-x] "DOB_YR" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Year part of 1.07 Birth Date Time</p> <p>C170-[DE-1.07-x] "DOB_MO" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Month part of 1.07 Birth Date Time</p> <p>C170-[DE-1.07-x] "DOB_DY" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Day part of 1.07 Birth Date Time</p>
C170[CT-318]	Decedent's Date of Birth (Mo/Day/Yr) – DOB_YR, DOB_MO, DOB_DY	1.07 - Birth Date Time		<p>C170-[DE-1.07-x] "DOB_YR" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Year part of 1.07 Birth Date Time</p> <p>C170-[DE-1.07-x] "DOB_MO" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Month part of 1.07 Birth Date Time</p> <p>C170-[DE-1.07-x] "DOB_DY" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Day part of 1.07 Birth Date Time</p>
C170[CT-319]	Decedent's Date of Birth (Mo/Day/Yr) – DOB_YR, DOB_MO, DOB_DY	1.07 - Birth Date Time		<p>C170-[DE-1.07-x] "DOB_YR" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Year part of 1.07 Birth Date Time</p> <p>C170-[DE-1.07-x] "DOB_MO" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Month part of 1.07 Birth Date Time</p> <p>C170-[DE-1.07-x] "DOB_DY" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Day part of 1.07 Birth Date Time</p>



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-320]	Decedent of Hispanic Origin – DETHNIC1, DETHNIC2, DETHNIC3, DETHNIC4, DETHNIC5	1.11 Ethnicity	R	<p>Need Value Set, Hispanic Ethnicity – Not Spanish/Hispanic/Latina, Hispanic Ethnicity – Mexican/ Mexican American/ Chicana , Hispanic Ethnicity – Puerto Rican, Hispanic Ethnicity – Cuban, Hispanic Ethnicity – Other Spanish/Hispanic/Latina</p> <p>C170-[DE-1.11-1] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity - Mexican/ Mexican American/ Chicana) THEN “DETHNIC1” = ‘H’ ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN DETHNIC1” = “N” ELSE “DETHNIC1” = ‘U’;</p> <p>C170-[DE-1.11-2] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Puerto Rican) THEN “DETHNIC2” = ‘H’ ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN DETHNIC2” = “N” ELSE “DETHNIC2” = ‘U’;</p> <p>C170-[DE-1.11-3] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Cuban) THEN “DETHNIC3” = ‘H’ ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN DETHNIC3” = “N” ELSE “DETHNIC3” = ‘U’;</p> <p>C170-[DE-1.11-4] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Other Spanish/Hispanic/Latina) THEN “DETHNIC4” = ‘H’ ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN DETHNIC4” = “N” ELSE “DETHNIC4” = ‘U’;</p> <p>C170-[DE-1.11-5] I “DETHNIC5” SHALL = 11.11 Ethnicity</p>



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-321]	Decedent's Education – DEDUC*	19.02 - Social History Type 19.04 - Social History Observed Value		<p>Need Value Set Social History Type-Education 8th grade or less, 9th through 12th grade; no diploma High school graduate or GED completed Some college credit, but not a degree Associate degree (e.g., AA, AS) Bachelor's degree (e.g., BA, AB, BS) Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA) Doctorate degree (e.g., PhD, EdD) or professional degree (e.g., MD, DDS, DVM, LLB, JD)</p> <p>C170-[DE-19.04-1] IF Section 2.2.2.19 Social History 19.02 Social History Type CONTAINS (Social History Type-Education) THEN (IF 19.04 Social History Observed Value CONTAINS ValueSet(8th grade or less) THEN "DEDUC" SHALL = "1" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(9th through 12th grade; no diploma) THEN "DEDUC" SHALL = "2" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(High school graduate or GED completed) THEN "DEDUC" SHALL = "3" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Some college credit, but not a degree) THEN "DEDUC" SHALL = "4" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Associate degree (e.g., AA, AS)) THEN "DEDUC" SHALL = "5" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Bachelor's degree (e.g., BA, AB, BS)) THEN "DEDUC" SHALL = "6" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA)) THEN "DEDUC" SHALL = "7" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA)) THEN "DEDUC" SHALL = "8" ELSE "DEDUC" SHALL = "9"</p>



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-322]	Decedent's Legal Name – GNAME* MNAME* LNAME* SUFF* ALIAS*	Not necessarily available from EHR NOTE: COMMENT WELCOME This is not the name likely included in an EHR; however, the specs only include a variable for this value. We are seeking info as to determine what variable is use for the name in the EHR.	R	Data Entry Required NOTE: This is not the name likely included in an EHR; however, the specs only include a variable for this value. Vital Records team is seeking info as to determine what variable is use for the name in the EHR (see C170[CT-323])
C170[CT-323]	Decedent's Name Known by Certifier	1.05 - Person Name		C170-[DE-1.05-x] "GNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the First Name part of 1.05 - Person Name C170-[DE-1.05-x] "MNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Middle Name part of part of 1.05 - Person Name C170-[DE-1.05-x] "LNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Last Name part of part of 1.05 - Person Name C170-[DE-1.05-x] "SUFF" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Last Name Suffix part of part of 1.05 - Person Name C170-[DE-1.05-x] "ALIAS" shall be coded using the Alias part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.05 Person Name



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-324]	Decedent's Race DRACE1 DRACE2 DRACE3 DRACE4 DRACE5 DRACE6 DRACE7 DRACE8 DRACE9 DRACE10 DRACE11 DRACE12 DRACE13 DRACE14 DRACE15 DRACE16 DRACE17 DRACE18 DRACE19 DRACE20 DRACE21 DRACE22 DRACE23	18.04 Family Member Relationship 18.09- Family Member Race	R	<p>Need Value Sets Father, White Black or African American American Indian or Alaska Native Asian Indian Chinese Filipino Japanese Korean Vietnamese Other Asian Native Hawaiian Guamanian or Chamorro Samoan Other Pacific Islander Other Race</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "DRACE1" = 'Y' ELSE if Race NOT NULL THEN DRACE1" = "N" ELSE "DRACE1" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "DRACE2" = 'Y' ELSE if Race NOT NULL THEN DRACE2" = "N" ELSE "DRACE2" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "DRACE3" = 'Y' ELSE if Race NOT NULL THEN DRACE3" = "N" ELSE "DRACE3" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Asian Indian) THEN "DRACE4" = 'Y' ELSE if Race NOT NULL THEN DRACE4" = "N" ELSE "DRACE4" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Chinese) THEN "DRACE5" = 'Y' ELSE if Race NOT NULL THEN DRACE5" = "N" ELSE "DRACE5" = 'U'</p>



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
				<p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Filipino) THEN "DRACE6" = 'Y' ELSE if Race NOT NULL THEN DRACE6" = "N" ELSE "DRACE6" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Japanese) THEN "DRACE7" = 'Y' ELSE if Race NOT NULL THEN DRACE7" = "N" ELSE "DRACE7" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Korean) THEN "DRACE8" = 'Y' ELSE if Race NOT NULL THEN DRACE8" = "N" ELSE "DRACE8" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Vietnamese) THEN "DRACE9" = 'Y' ELSE if Race NOT NULL THEN DRACE9" = "N" ELSE "DRACE9" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "DRACE10" = 'Y' ELSE if Race NOT NULL THEN DRACE10" = "N" ELSE "DRACE10" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Native Hawaiian) THEN "DRACE11" = 'Y' ELSE if Race NOT NULL THEN DRACE11" = "N" ELSE "DRACE11" = 'U'</p>



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
				<p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Guamanian or Chamorro) THEN "DRACE12" = 'Y' ELSE if Race NOT NULL THEN DRACE12" = "N" ELSE "DRACE12" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Samoan) THEN "DRACE13" = 'Y' ELSE if Race NOT NULL THEN DRACE13" = "N" ELSE "DRACE13" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Pacific Islander) THEN "DRACE14" = 'Y' ELSE if Race NOT NULL THEN DRACE14" = "N" ELSE "DRACE14" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "DRACE15" = 'Y' ELSE if Race NOT NULL THEN DRACE15" = "N" ELSE "DRACE15" = 'U'</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "DRACE16" SHALL = 18.09- Family Member Race C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "DRACE17" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (American Indian or Alaska Native)</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "DRACE18" SHALL = 18.09- Family Member Race</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "DRACE19" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Asian)</p>



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
				<p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "DRACE22" SHALL = 18.09- Family Member Race</p> <p>C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "DRACE23" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Race)</p>
C170[CT-325]	Decedent's Residence: Apartment Number – UNUM*	1.03 - Person Address		C170-[DE-1.03-1] "UNUM" SHALL be populated as specified in HITSP/C83 Section 2.2.2.1 Personal Information using the Apartment Number part of 1.03 Person Address.
C170[CT-326]	Decedent's Residence: City or Town – CITY*	1.03 Person Address		<p>Need value set for city code</p> <p>C170-[DE-1.03-2] "CITY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.03 Person Address.</p>
C170[CT-327]	Decedent's Residence: County – COUNTY*	1.03 Person Address		C170-[DE-1.03-4] "COUNTY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.03 Person Address.
C170[CT-328]	Decedent's Residence: Inside City Limits – LIMITS*			
C170[CT-329]	Decedent's Residence: Street Number, Pre-directional, Street Name, Street Designator and Post-directional – STNUM*, PREDIR*, STNAME*, STDESIG*, POSTDIR*	1.03 - Person Address	R	<p>C170-[DE-1.03-X] "STNUM" shall be coded using the Number part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address</p> <p>C170-[DE-1.03-X] "PREDIR" shall be coded using the Pre-directional part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address</p> <p>C170-[DE-1.03-X] "STNAME" shall be coded using the Street part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address</p> <p>C170-[DE-1.03-X] "STDESIG" shall be coded using the Street designator part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address</p> <p>C170-[DE-1.03-X] "POSTDIR" shall be coded using the Post-directional part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address</p>



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-330]	Decedent's Residence: State – STATE*	1.03 Person Address		C170-[DE-1.03-4] "STATE" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the State part of 1.03 Person Address.
C170[CT-331]	Decedent's Sex – SEX	1.06 Gender	R	C170-[DE-1.03-X] "SEX" shall be coded using the state part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.06 Gender
C170[CT-332]	Decedent's Social Security Number – SSN*	1.02 Person ID	R	C170-[DE-1.02-2] "SSN" SHALL be populated using Section 2.2.2.1 Personal Information using 1.02 Person ID Where Person ID represents the Decedent's Social Security Number
C170[CT-333]	Decedent's Usual Occupation – OCCUP*	19.02 Social History Type 19.04 Social History Observed Value		Need Value Set Social History Occupation, Occupations C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Social History Occupation) THEN "OCCUP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value using ValueSet(Occupations) NOTE: Value Set Occupations excludes 'Retired' and indicates the Decedent's Usual Occupation (most of working life)
C170[CT-334]	Describe how the injury occurred – LINJURY*	Not available from EHR		Data Entry Required
C170[CT-335]	Did tobacco use contribute to death? – TOBAC*	Not available from EHR		Data Entry Required Options: Yes, No, Probably, Unknown
C170[CT-336]	Ever in U.S. Armed Forces? – ARMF*	Not available from EHR		Data Entry Required
C170[CT-337]	Facility Name (Geographic location where the death occurred) – DINSTI			
C170[CT-338]	Facility Address (Geographic location where the death occurred) : Facility City or Town – DNAME*, Facility State – DSTATE*, Facility Zip Code – DZIP9* (If not institution (facility), give street and number where the death occurred) Street Number – DSTNUM*, Street Name – DSTNAME*, Street Designator – DSTDESIG*			



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-339]	Father's Name (First, Middle, Last, Suffix) – FGNAME*, FMNAME*, FLNAME*, FSUFF*	18.04 Family Member Relationship 18.07 - Family Member Name	R	<p>Need Value Set Father</p> <p>C170-[DE-18-10] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FGNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the First Name part of 18.07 - Family Member Name</p> <p>C170-[DE-18-11] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FMNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Middle Name part of 18.07 - Family Member Name</p> <p>C170-[DE-18-13] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FLNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name part of 18.07 - Family Member Name</p> <p>C170-[DE-18-14] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FSUFF" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name Suffix part of 18.07 - Family Member Name</p>



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-340]	Female pregnancy status within last year of life – PREG*	9.01 Pregnancy		<p>ValueSets</p> <p>Not pregnant within the past year</p> <p>Pregnant at the time of death</p> <p>Not pregnant, but pregnant within 42 days of death</p> <p>Not pregnant, but pregnant 43 days to 1 year before death</p> <p>Not applicable</p> <p>Unknown</p> <p>C170-[DE-9.01-X] PENDING ALIGNMENT OF 9.01 Pregnancy with VR Classifications : IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 Pregnancy CONTAINS ValueSet (Not pregnant within the past year) THEN "PREG" SHALL = 1 ELSE IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 Pregnancy CONTAINS ValueSet (Pregnant at the time of death) THEN "PREG" SHALL = 2 ELSE IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 Pregnancy CONTAINS ValueSet (Not pregnant, but pregnant within 42 days of death) THEN "PREG" SHALL = 3 ELSE IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 Pregnancy CONTAINS ValueSet (Not pregnant, but pregnant 43 days to 1 year before death) THEN "PREG" SHALL = 4 ELSE IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 NOT NULL THEN "PREG" SHALL = 8 ELSE "PREG" SHALL = 9</p> <p>NOTE: Content of this attribute in 9.01 should be aligned with VR classifications. In the interim, this should remain Data Entry Requirement</p>
C170[CT-341]	For Registrar only - Date Filed – NO VARIABLE IN NCHS Edit Specs*	Not available from EHR		Data Entry Required
C170[CT-342]	Funeral Facility Name – FFNAME*	Not available from EHR		Data Entry Required
C170[CT-343]	Funeral Facility Address: Funeral Facility Complete number and street name – FFSTNAME*, Funeral Facility City or Town – FFCITY*, Funeral Facility State or U.S. Territory – FFSTATE*, Funeral Facility Zip Code – FFZIP*	Not available from EHR		Data Entry Required



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-344]	Informant's Mailing Address Street and Number – ISTNAME*, Apartment Number – IAPT*, City – ICITY*, State – ISTATE*, Zip Code – IZIP*, Country – COUNTRY*	Not available from EHR		Data Entry Required
C170[CT-345]	Informant's Name (First name and middle name, Last name) – INFOFFNAME*, INFOLNAME*	Not available from EHR		Data Entry Required
C170[CT-346]	Informant's Relationship to Decedent – NO VARIABLE IN NCHS Edit Specs*			
C170[CT-347]	Injury at Work – WORKINJ*	Not available from EHR		Data Entry Required
C170[CT-348]	Kind of Business/Industry – INDUST*	19.02 Social History Type 19.04 Social History Observed Value		Need Value Set Social History Industry, Industry C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Social History Industry THEN "INDUST" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value using ValueSet(Industry) NOTE: The value set 'Industry' must reflect most of the working life of the decedent as to the Industry.
C170[CT-349]	License Number (Funeral Service Licensee or Other Agent) – FLIC*, Type of Agent – AGENT*	Not available from EHR		Data Entry Required
C170[CT-350]	License Number (Person Certifying Cause of Death) – CLICNUM*	Not available from EHR		Data Entry Required
C170[CT-351]	License Number (Person Pronouncing Death) – PLIC*	Not available from EHR		Data Entry Required
C170[CT-352]	Location where the Injury occurred: ISTNUM* (Street Number), IPREDIR* (Pre-directional), ISTNAME* (Street name), ISTDESIG* (Street designator), IPOSTDIR* (Post-directional), IUNUM* (Unit or apartment number), IPNAME* (City or town name), IZIP9* (Zip code), ISTATE* (State/Province)	Not available from EHR		Data Entry Required



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-353]	Manner of Death – MANNER*	Not available from EHR		ValueSet N - Natural H - Homicide A - Accident P - Pending Investigation S - Suicide C - Could not be determined
C170[CT-354]	Marital Status at time of death – MARITAL*	1.08 Marital Status		Need Value Set for Married Married but separated Widowed Divorced Never married Not obtainable Unknown C170-[DE-1.08-X] IF 1.08 Marital Status CONTAINS ValueSet(Married) THEN "MARITAL" SHALL = 'M' ELSE IF Marital Status CONTAINS ValueSet(Married but separated) THEN "MARITAL" SHALL = 'A' ELSE IF Marital Status CONTAINS ValueSet(Widowed) THEN "MARITAL" SHALL = 'W' ELSE IF Marital Status CONTAINS ValueSet(Divorced) THEN "MARITAL" SHALL = 'D' ELSE IF Marital Status CONTAINS ValueSet(Never married) THEN "MARITAL" SHALL = 'S' ELSE IF Marital Status CONTAINS ValueSet(Not obtainable) THEN "MARITAL" SHALL = 'N' ELSE "MARITAL" SHALL = 'U'
C170[CT-355]	Method of Disposition – DISP*	Not available from EHR		Burial Cremation Donation Entombment Removal from State Other (Specify)
C170[CT-356]	Mother's Name prior to first marriage (First, Middle, Last, Suffix) – MFNAME*, MMNAME*, MLNAME*, MLNSUFF*	1.12 Mother's Maiden Name		C170-[DE-1.03-X] "MFNAME", "MMNAME", "MLNAME", "MLNSUFF" Component shall be coded using HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.12 Mother's Maiden Name



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-357]	Name and Address of person completing COD* CERTNAME* (First name and middle name), CERTLNAME* (Last name) CSTNAME* (Complete number and street name), CSUITE* (Suite or office number) CCITY* (City or Town name) CSTATE* (State or Territory) CZIP* (Zip Code)	Not available from EHR		Data Entry Required
C170[CT-358]	Place of Death – DPLACE*	Not available from EHR		<p>Need Value Set for Inpatient Emergency room/Outpatient Dead on arrival Decedent's home Hospice facility Nursing home/Long term care facility Other Unknown</p> <p>C170-[DE-X.XX-X] IF X.XX Place of Death CONTAINS ValueSet(Place of Death) THEN "DPLACE" SHALL = '1' ELSE IF Place of Death CONTAINS ValueSet(Emergency room/Outpatient) THEN "DPLACE" SHALL = '2' ELSE IF Place of Death CONTAINS ValueSet(Dead on arrival) THEN "DPLACE" SHALL = '3' ELSE IF Place of Death CONTAINS ValueSet(Decedent's home) THEN "DPLACE" SHALL = '4' ELSE IF Place of Death CONTAINS ValueSet(Hospice facility) THEN "DPLACE" SHALL = '5' ELSE IF Place of Death CONTAINS ValueSet(Nursing home/Long term care facility) THEN "DPLACE" SHALL = '6' ELSE IF Place of Death CONTAINS ValueSet(Other) THEN "DPLACE" SHALL = '7' ELSE IF "DPLACE" SHALL = '9'</p>
C170[CT-359]	Place of Disposition: Name Place of Disposition – FFNAME*, City or Town of Disposition – FFCITY*, State or U.S. Territory of Disposition – FFSTATE*	Not available from EHR		Data Entry Required
C170[CT-360]	Place of Injury – INJPLL*	Not available from EHR		Data Entry Required
C170[CT-361]	Signature of Funeral Service Licensee or other agent – NO VARIABLE IN NCHS Edit Specs*	Not available from EHR		Data Entry Required



Constraint ID	U.S. Standard Death Report Data Element ³	HITSP Data Element Identifier and Name	Optionality	Additional Specification for Component
C170[CT-362]	Signature of Person Pronouncing Death NO VARIABLE IN NCHS Edit Specs*	Not available from EHR		Data Entry Required
C170[CT-363]	Surviving Spouse Name – SSPFNAME* and SSPLNAME*	Not available from EHR		Data Entry Required
C170[CT-364]	Time of Death (Actual or Presumed) – TOD*	7.09 – Time of Death		
C170[CT-365]	Time of Injury – TOI_HR*	Not available from EHR		Data Entry Required
C170[CT-366]	Title of Certifier – NO VARIABLE IN NCHS Edit Specs*	Not available from EHR		Data Entry Required
C170[CT-367]	Transportation Injury? – TRANSP*	Not available from EHR		Data Entry Required ValueSet Driver/Operator Passenger Pedestrian Other (Specify)
C170[CT-368]	Was Medical Examiner or Coroner contacted? – REF*	Not available from EHR		Data Entry Required

Optionality Legend: “R” for Required, “O” for Optional, or “C” for Conditional

2.2.2 VALUE SETS

2.2.2.1 U.S. VITAL RECORDS FACILITY LOCATION NICU

Table 2-5 U.S. Vital Records Facility Location NICU Value Set

Value Set Identifier	Not Available at Publication
Value Set Name	U.S. Vital Records Facility Location NICU Value Set
Value Set Source	The Joint Commission
Value Set Purpose	Not Available at Publication
Value Set URL	This value set is to be used to identify that a patient is in NICU Treatment Locations
Value Set Definition	Extensional definition: The value set was constructed by enumerating the codes from HL7ServiceDeliveryLocation
Value Set Version	Version 1.0
Value Set Type	Extensional
Value Set Binding	Static
Value Set Status	Active
Value Set Effective Date	
Value Set Expiration Date	
Value Set Creation Date	
Value Set Revision Date	

Table 2-6 U.S. Vital Records Facility Location NICU Value Set Code System

Code System Identifier	
Code System Name	HL7ServiceDeliveryLocation
Code System Source	HL7
Code System URL	http://www.hl7.org
Code System HL7 Identifier	



Code System Version	
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Table 2-7 Joint U.S. Vital Records Facility Location NICU Value Set Definition

Value	Display Name	Definition
1039-7	Neonatal critical care unit [Level II/III]	Not Available
1040-5	Neonatal critical care unit [Level III]	Not Available
1037-1	Neonatal unit Neonatal unit	Not Available
1041-3	Step down neonatal ICU [Level II]	Not Available

2.2.3 GUIDELINES AND EXAMPLES

None available at this time.

2.3 STANDARDS

2.3.1 REGULATORY GUIDANCE

Table 2-8 Regulatory Guidance

Regulation	Description
Guidance from U.S. Department of Health and Human Services	Former U.S. Department of Health and Human Services Secretary Tommy Thompson's letter reflecting final approval of the 2003 Revised Standard Certificates and Reports. http://www.cdc.gov/nchs/data/dvs/SecThompsonForeword-acc.pdf
Public Health Service Act - Sections 304, 306 and 308 - National Center for Health Statistics (NCHS) has legislative authority for its programs including the Division of Vital Statistics	As the Nation's principal health statistics agency, NCHS provides statistical information to guide actions and policies to improve the health of the American people. The National Vital Statistics System is the oldest example of inter-governmental data sharing in Public Health and the shared relationships, standards, and procedures form the mechanism by which NCHS collects and disseminates the Nation's official vital statistics. These data are provided through contracts between NCHS and vital registration systems operated in the various jurisdictions legally responsible for the registration of vital events – births, deaths, marriages, divorces, and fetal deaths. http://www.cdc.gov/nchs/nvss.htm http://www.cdc.gov/nchs/data/misc/proact02.pdf

2.3.2 SELECTED STANDARDS

Table 2-9 Selected Standards

Standard	Description
Integrating the Healthcare Enterprise (IHE) Quality, Research and Public Health (QRPH) Technical Framework Supplement 2009 – 2010, Maternal Child Health (MCH) Supplement for Trial Implementation	This profile describes the contents to be used in the pre-population and automatic submission of the child and maternal health information to public health agencies via the mechanism provided by the Request Form for Data Capture (RFD) integration profile. The Mother and Child (MCH) profile uses transactions and content modules defined in other IHE profiles to provide interoperable data exchange. For more information visit www.ihe.net
Birth Edit Specifications for the 2003 Revision of the U.S. Standard Certificate of Birth; Death Edit Specifications for the 2003 Revision of the U.S. Standard Certificate of Death; Fetal Death Edit Specifications for the 2003 Revision of the U.S. Standard Report of Fetal Death	The U. S. Standard Certificates of Birth and Death, and Report of Fetal Death are the principal means of promoting uniformity in the data collected by the states/jurisdictions. The Specifications for collecting and editing the U.S. Standard Certificates of live birth and death and the Report of Fetal Death -- 2003 revisions provide a detailed standard for electronic vital records data collection. They are used in all states and independent reporting areas. http://www.cdc.gov/nchs/nvss/vital_certificate_revisions.htm .

The IHE MCH Profile is included in this Component as Intended for Use, and it is anticipated that the standard, will be updated with a change proposal intended to more accurately specify the U.S. Domain requirements for pre-population of U.S. Vital Records Data. This change proposal will be under the leadership of members of the U.S. Division of Vital Health Statistics. Once the change proposal is applied to the standard and deemed acceptable to U.S. Department of Vital Health Statistics, this Component will



be updated to align with the final IHE MCH version and the status of the standard is expected to be changed from 'Intended for Use' to 'Selected' within HITSP.

In addition to the snapshot of the evolving profile pre-population mapping included in this document, continued development of this mapping and the referenced IHE change proposal activities can be obtained from <http://wiki.ihe.net> under the Quality Public Health and Research (QRP) technical committee domain area.

2.3.3 INFORMATIVE REFERENCE STANDARDS

Table 2-10 Informative Reference Standards

Standard	Reason for Use
None	



3.0 APPENDIX

The following sections include relevant materials referenced throughout this document.

No additional information at this time

3.1 HITSP CONSTRAINTS DEFINED IN THIS DOCUMENT

This section lists all the constraints defined in this document.

C170[CT-001]	Abnormal conditions of the newborn: ANTI - Antibiotics [received by the newborn for suspected neonatal sepsis]
C170[CT-002]	Abnormal conditions of the newborn: AVEN1 -Assisted ventilation[required immediately following delivery]
C170[CT-003]	Abnormal conditions of the newborn: AVEN6 - Assisted ventilation for 6 or more hours
C170[CT-004]	Abnormal conditions of the newborn: BINJ - Significant birth injury [(skeletal fracture(s), peripheral nerve injury, and/or soft tissue/solid organ hemorrhage which requires intervention)]
C170[CT-005]	Abnormal conditions of the newborn: DNA54 – Unknown
C170[CT-006]	Abnormal conditions of the newborn: NICU – Admission to NICU
C170[CT-007]	Abnormal conditions of the newborn: NOA54 - None of the above
C170[CT-008]	Abnormal conditions of the newborn: SEIZ - Seizure or serious neurologic dysfunction
C170[CT-009]	Abnormal conditions of the newborn: SURF – [Newborn given] Surfactant replacement therapy
C170[CT-010]	Apgar Score:
C170[CT-011]	Apgar Score:
C170[CT-012]	Attendant's name: ATTENDN
C170[CT-013]	Attendant's title: ATTEND
C170[CT-014]	Attendant: Other specified: ATTENDS
C170[CT-015]	Attendant's NPI: NPI
C170[CT-016]	Birthplace - Child: County of Birth: CNAME
C170[CT-017]	Birthplace - Child: City, Town or Location of Birth: FLOC
C170[CT-018]	Birthplace – Mother's country of birth: BPLACE_CNT *
C170[CT-019]	Birthplace – Code for Mother's country of birth: BPLACEC_CNT*
C170[CT-020]	Birthplace – Mother's state of birth: BPLACE_ST *
C170[CT-021]	Birthplace – Mother's territory of birth: BPLACE_TER*
C170[CT-022]	Birthplace – Code for Mother's state or territory of birth: BPLACEC_ST_TER *
C170[CT-023]	Birth weight (Infant's)
C170[CT-024]	Birth weight (Infant's)
C170[CT-025]	Birth weight (Infant's)
C170[CT-026]	Certifier: Date Certified*
C170[CT027]	Certifier's First Name and Middle Name: CERTFNAME and Certifier's Last Name: CERTLNAME *
C170[CT-028]	Certifier's Title*
C170[CT-029]	Characteristics of labor and delivery: ANTB – Antibiotics[received by the mother during labor]
C170[CT-030]	Characteristics of labor and delivery: AUGL - Augmentation of labor
C170[CT-031]	Characteristics of labor and delivery: CHOR – [Clinical] Chorioamnionitis[diagnosed during labor or maternal temperature >=38 degrees (100.4F)]



C170[CT-032]	Characteristics of labor and delivery: DNA04- Unknown
C170[CT-033]	Characteristics of labor and delivery: ESAN – [Epidural or spinal]Anesthesia[during labor]
C170[CT-034]	Characteristics of labor and delivery: FINT – Fetal intolerance [of labor such that one or more of the following actions was taken: in-utero resuscitation measures, further fetal assessment, or operative delivery]
C170[CT-035]	Characteristics of labor and delivery: INDL - Induction of labor
C170[CT-036]	Characteristics of labor and delivery: MECS- Meconium staining
C170[CT-037]	Characteristics of labor and delivery: NOA54 - None of the above
C170[CT-038]	Characteristics of labor and delivery: NVPR - Non-vertex present[ation]
C170[CT-039]	Characteristics of labor and delivery: STER - Steroids [(glucocorticoids) for fetal lung maturation received by the mother prior to delivery]
C170[CT-040]	Child: Date of Birth
C170[CT-041]	Child's First Name: FNAME and Child's Middle Name: MNAME and Child's Last Name: LNAME and Child's Last Name Suffix:* SUFF*-all components of the child's name items
C170[CT-042]	Child: (Infant) name chosen?*
C170[CT-043]	Child: Infant being breastfed at discharge?
C170[CT-044]	Child: Infant living at time of report?
C170[CT-045]	Child: Newborn Medical Record Number
C170[CT-046]	Child: (infant) Sex -
C170[CT-047]	Child: Infant transferred within 24 hours of delivery/name the facility
C170[CT-048]	Child: Time of Birth
C170[CT-049]	Cigarette Smoking before and during pregnancy: Number of cigarettes smoked in 1st three months of pregnancy - *
C170[CT-050]	Cigarette Smoking before and during pregnancy: Number of packs of cigarettes smoked in the first three months of pregnancy - *
C170[CT-051]	Cigarette Smoking before and during pregnancy: Number cigarettes smoked in 3rd three months of pregnancy - *
C170[CT-052]	Cigarette Smoking before and during pregnancy: Number of packs of cigarettes smoked in the 3rd three months of pregnancy - *
C170[CT-053]	Cigarette Smoking before and during pregnancy: Number of cigarettes smoked prior to pregnancy - *
C170[CT-054]	Cigarette Smoking before and during pregnancy :Number of packs of cigarettes smoked prior to pregnancy - *
C170[CT-055]	Cigarette Smoking before and during pregnancy: Number of cigarettes smoked in the 2nd three months of pregnancy - *
C170[CT-056]	Cigarette Smoking before and during pregnancy: Number of packs of cigarettes smoked in the 2nd three months of pregnancy - *
C170[CT-057]	Congenital anomalies of the Newborn: ANEN - Anencephaly
C170[CT-058]	Congenital anomalies of the Newborn: CCHD -Cyanotic congenitalheart disease
C170[CT-059]	Congenital anomalies of the Newborn: CDH- Congenital diaphragmatic hernia
C170[CT-060]	Congenital anomalies of the Newborn: CDIC -Suspected chromosomaldisorder karyotype confirmed
C170[CT-061]	Congenital anomalies of the Newborn: CDIS- Suspected chromosomaldisorder
C170[CT-062]	Congenital anomalies of the Newborn: CDIP -Suspected chromosomal disorder karyotype pending
C170[CT-063]	Congenital anomalies of the Newborn: CL- Cleft Lip with or without Cleft Palate
C170[CT-064]	Congenital anomalies of the Newborn: CP- Cleft Palate alone
C170[CT-065]	Congenital anomalies of the Newborn: DNA55 -Unknown
C170[CT-066]	Congenital anomalies of the Newborn: DOWC- Down Karyotype confirmed
C170[CT-067]	Congenital anomalies of the Newborn: DOWN-Down Syndrome



C170[CT-068] Congenital anomalies of the Newborn: DOWP -Down Karyotype pending
 C170[CT-069] Congenital anomalies of the Newborn: GAST- Gastroschisis
 C170[CT-070] Congenital anomalies of the Newborn: HYPO -Hypospadias
 C170[CT-071] Congenital anomalies of the Newborn: LIMB -Limb reduction defect
 C170[CT-072] Congenital anomalies of the Newborn: MNSB - Meningomyelocele/
 C170[CT-073] Congenital anomalies of the Newborn: NOA55 -None of the anomalies listed above
 C170[CT-074] Congenital anomalies of the Newborn: OMPH -Omphalocele
 C170[CT-075] Date of last live birth:
 C170[CT-076] Date last Normal Menses began
 C170[CT-077] Date of Last Other Pregnancy Outcome
 C170[CT-078] Facility Address
 C170[CT-079] Facility ID
 C170[CT-080] Facility Name (if Not institution, give street and number)
 C170[CT-081] Facility National Provider Identifier
 C170[CT-082] Father of Hispanic Origin?
 C170[CT-083] Father's Birthplace
 C170[CT-084] Father's Current Legal Name*
 C170[CT-085] Father's Date of Birth*
 C170[CT-086] Father's Education*
 C170[CT-087] Father's Race
 C170[CT-088] Father's Social Security Number*
 C170[CT-089] Infections present and treated during this pregnancy: CHAM - Chlamydia
 C170[CT-090] Infections present and treated during this pregnancy: GON - Gonorrhea
 C170[CT-091] Infections present and treated during this pregnancy: HEPB - Hepatitis B
 C170[CT-092] Infections present and treated during this pregnancy: HEPC - Hepatitis C
 C170[CT-093] Infections present and treated during this pregnancy: NOA02 - None of the above
 C170[CT-094] Infections present and treated during this pregnancy: SYPH - Syphilis
 C170[CT-095] Maternal Morbidity: AINT - Admission to Intensive care [unit]
 C170[CT-096] Maternal Morbidity: MTR - Maternal Transfusion
 C170[CT-097] Maternal Morbidity: NOA05 –None of the above
 C170[CT-098] Maternal Morbidity: PLAC – [Third or fourth degree] perineal laceration
 C170[CT-099] Maternal Morbidity: RUT - Ruptured Uterus
 C170[CT-100] Maternal Morbidity: UHYS - Unplanned hysterectomy
 C170[CT-101] Maternal Morbidity: UOPR - Unplanned operat[ing]ion [room procedure following delivery]
 C170[CT-102] Method of Delivery: ATTF - Was delivery with [forceps attempted] but unsuccessful?
 C170[CT-103] Method of Delivery: ATTV - [Was delivery with] vacuum [extraction] attempted [but unsuccessful?]
 C170[CT-104] Method of Delivery: PRES - Fetal presentation [at birth]: Cephalic
 C170[CT-105] Method of Delivery: ROUT –[Final]Route and method of delivery
 C170[CT-106] Method of Delivery: TLAB -Trial of labor attempted
 C170[CT-107] Mother: Has the mother ever been married?
 C170[CT-108] Mother Married (At birth, conception, or any time between)*
 C170[CT-109] Mother of Hispanic Origin?
 C170[CT-110] Mother: Did the mother get WIC food for herself during this pregnancy*
 C170[CT-111] Mother's Current Legal Name
 C170[CT-112] Mother's Date of Birth*
 C170[CT-113] Mother's Education*



C170[CT-114]	Mother's Height
C170[CT-115]	Mother's Mailing Address*
C170[CT-116]	Mother's medical record number
C170[CT-117]	Mother's Name Prior to First Marriage*
C170[CT-118]	Mother's pre-pregnancy weight
C170[CT-119]	Mother's Race
C170[CT-120]	Mother's Residence: Apartment or Unit Number *
C170[CT-121]	Mother's Residence: City, Town or Location –*
C170[CT-122]	Mother's Residence: Code for City, Town or Location –*
C170[CT-123]	Mother's Residence: County –*
C170[CT-124]	Mother's Residence: Inside City Limits*
C170[CT-125]	Mother's Residence: State*
C170[CT-126]	Mother's Residence: Street and Number*
C170[CT-127]	Mother's Residence: Zip Code*
C170[CT-128]	Mother's Social Security Number*
C170[CT-129]	Mother: If Mother transferred for maternal medical or fetal indications for delivery, enter name of facility mother transferred from.
C170[CT-130]	Mother transferred for maternal medical or fetal indications for delivery?
C170[CT-131]	Mother: Date signed request for SSN (for infant)*
C170[CT-132]	Mother's weight at delivery
C170[CT-133]	Name of person providing information for the mother's worksheet.*
C170[CT-134]	Number of other pregnancy outcomes
C170[CT-135]	Number of previous live births now dead (do not include this child)
C170[CT-136]	Number of previous live births now living (do not include this child)
C170[CT-137]	Obstetric Estimate of Gestation- OWGEST
C170[CT-138]	Obstetric procedures: CERV- Cervical cerclage
C170[CT-139]	Obstetric procedures: ECVF - Failed External cephalic
C170[CT-140]	Obstetric procedures: ECVS - Successful External cephalic version
C170[CT-141]	Obstetric procedures: NOA03 - None of the above
C170[CT-142]	Obstetric procedures: TOC – Tocolysis
C170[CT-143]	Onset of labor
C170[CT-144]	Paternity Acknowledgement Signed*
C170[CT-145]	Place where birth occurred
C170[CT-146]	Plurality
C170[CT-147]	Prenatal care visits: Date of first prenatal care visit:
C170[CT-148]	Prenatal care visits: Date of last prenatal care visit
C170[CT-149]	Prenatal care visits: Total number of prenatal visits for this pregnancy - NPREV
C170[CT-150]	Principal source of payment for this delivery
C170[CT-151]	Relationship to mother for the person completing the mother's worksheet*
C170[CT-152]	Registrar: Date filed by Registrar*
C170[CT-153]	Risk factors in this pregnancy
C170[CT-154]	SET ID (matching ID number)
C170[CT-155]	Set Order
C170[CT-156]	Signature of person requesting SSN*
C170[CT-157]	Social Security Number requested for child*
C170[CT-158]	Attendant's name
C170[CT-159]	Attendant's title



C170[CT-160]	Attendant: Other specified
C170[CT-161]	Attendant's NPI
C170[CT-162]	Birthplace – Mother's state of birth *
C170[CT-163]	Birthplace – Mother's territory of birth *
C170[CT-164]	Birthplace – Mother's country of birth *
C170[CT-165]	Birthplace – Code for Mother's state or territory of birth*
C170[CT-166]	Birthplace – Code for Mother's country of birth *
C170[CT-167]	Cigarette smoking before and during pregnancy: Number of cigarettes smoked prior to pregnancy*
C170[CT-168]	Cigarette smoking before and during pregnancy: Number of packs of cigarettes smoked prior to pregnancy*
C170[CT-169]	Cigarette smoking before and during pregnancy: Number of cigarettes smoked in 1st three months of pregnancy*
C170[CT-170]	Cigarette smoking before and during pregnancy: Number of packs of cigarettes smoked in the first three months of pregnancy*
C170[CT-171]	Cigarette smoking before and during pregnancy: Number of cigarettes smoked in the 2nd three months of pregnancy*
C170[CT-172]	Cigarette smoking before and during pregnancy: Number of packs of cigarettes smoked in the 2nd three months of pregnancy: *
C170[CT-173]	Cigarette smoking before and during pregnancy: Number cigarettes smoked in 3rd three months of pregnancy: *
C170[CT-174]	Cigarette smoking before and during pregnancy: Number of packs of cigarettes smoked in the 3rd three months of pregnancy: *
C170[CT-176]	Congenital Anomalies of the Fetus
C170[CT-177]	Date of Delivery
C170[CT-178]	Date of last live birth:
C170[CT-179]	Date last Normal Menses began
C170[CT-180]	Date of Last Other Pregnancy Outcome
C170[CT-181]	Date Received by Registrar: MM____/DD____/YYYY____*
C170[CT-182]	Date Report Completed: MM____/DD____/YYYY____*
C170[CT-183]	Delivery: City, Town or Location
C170[CT-184]	Delivery: County
C170[CT-185]	Delivery: Zip Code
C170[CT-186]	Estimated Time of Fetal Death
C170[CT-187]	Facility Address
C170[CT-188]	Facility ID
C170[CT-189]	Facility Name (if Not institution, give street and number)
C170[CT-190]	Facility National Provider identifier
C170[CT - 191]	Father's Birthplace Father's Birthplace
C170[CT-192]	Father's Current Legal Name*
C170[CT-193]	Father's Date of Birth*
C170[CT-194]	If Not single birth - specify number of infants in this delivery born alive.
C170[CT-195]	Infections present and or treated during this pregnancy. Check all that apply.
C170[CT-196]	Initiating Cause/Condition: Maternal condition/Diseases* (Specify)
C170[CT-197]	Maternal Morbidity
C170[CT-198]	Method of Delivery
C170[CT-199]	Method of Delivery: Hysterotomy/Hysterectomy?
C170[CT-200]	Method of Disposition
C170[CT-201]	Mother: Has the mother ever been married?*



C170[CT-202]	Mother Married (At birth, conception, or any time between) *
C170[CT-203]	Mother of Hispanic Origin?*
C170[CT-204]	Mother: Did the mother get WIC food for herself during this pregnancy*
C170[CT-205]	Mother's current legal name (first, middle, last, suffix)
C170[CT-206]	Mother's Date of Birth*
C170[CT-207]	Mother's Education*
C170[CT-208]	Mother's Height
C170[CT-209]	Mother's Medical Record Number
C170[CT-210]	Mother's name prior to first marriage (first, middle, last suffix)*
C170[CT-211]	Mother's prepregnancy weight
C170[CT-212]	Mother's Race
C170[CT-213]	Mother's Residence: Apartment or Unit Number
C170[CT-214]	Mother's Residence: City, Town or Location
C170[CT-215]	Mother's Residence: Code for City, Town or Location
C170[CT-216]	Mother's Residence: County –COUNTY*
C170[CT-217]	Mother's Residence: Inside City Limits*
C170[CT-218]	Mother's Residence – State
C170[CT-219]	Mother's Residence: Street and Number*
C170[CT-220]	Mother's Residence: Zip Code; ZIP*
C170[CT-221]	Mother: If mother transferred for maternal or fetal indications for delivery, enter name of facility mother transferred from
C170[CT-222]	Mother transferred for maternal medical or fetal indications for delivery?
C170[CT-223]	Mother's weight at delivery
C170[CT-224]	Name and Title of Person Completing Report*
C170[CT-225]	Name of Fetus(optional at the discretion of the parents)*
C170[CT-226]	Number of other pregnancy outcomes
C170[CT-227]	Number of previous live births Now Dead (do not include this fetus)
C170[CT-228]	Number of previous live births Now Living (do not include this fetus)
C170[CT-229]	Obstetric Estimate of Gestation at Delivery
C170[CT-230]	Other Significant Causes or Condition: Maternal Condition/Diseases (Specify)*
C170[CT-231]	Patient's Mailing Address*
C170[CT-232]	Place where delivery occurred
C170[CT-233]	Plurality: single; twin; triplet, etc.
C170[CT-234]	Prenatal care visits: Date of first prenatal care visit:
C170[CT-235]	Prenatal care visits: Date of last prenatal care visit
C170[CT-236]	Prenatal care visits: Total number of prenatal visits for this pregnancy
C170[CT-237]	Risk factors in this pregnancy
C170[CT-238]	Risk factors in this pregnancy: How many C/S?
C170[CT-239]	SET ID (matching ID number)
C170[CT-240]	Set Order
C170[CT-241]	Sex (M,F,Unk)
C170[CT-242]	Time of delivery
C170[CT-243]	Total number of Prenatal visits for this pregnancy
C170[CT-244]	Was a Histological Placental Examination performed?
C170[CT-245]	Was an autopsy performed?
C170[CT-246]	Weight of Fetus (grams preferred, specify unit)



C170[CT-247]	Were autopsy or Histological placental examination results used in determining the cause of fetal death?
C170[CT-325]	Decedent's Residence: Apartment Number *
C170[CT-326]	Decedent's Residence: City or Town *
C170[CT-327]	Decedent's Residence: County *
C170[CT-328]	Decedent's Residence: Inside City Limits *
C170[CT-329]	Decedent's Residence: Street Number, Pre-directional, Street Name, Street Designator and Post-directional *
C170[CT-330]	Decedent's Residence: State *
C170[CT-331]	Decedent's Sex
C170[CT-332]	Decedent's Social Security Number *
C170[CT-333]	Decedent's Usual Occupation *
C170[CT-334]	Describe how the injury occurred *
C170[CT-335]	Did tobacco use contribute to death? *
C170[CT-336]	Ever in U.S. Armed Forces? *
C170[CT-337]	Facility Name (Geographic location where the death occurred)
C170[CT-338]	Facility Address (Geographic location where the death occurred) :
C170[CT-339]	Father's Name (First, Middle, Last, Suffix) *
C170[CT-340]	Female pregnancy status within last year of life *
C170[CT-341]	For Registrar only - Date Filed *
C170[CT-342]	Funeral Facility Name *
C170[CT-343]	Funeral Facility Address:
C170[CT-344]	Informant's Mailing Address
C170[CT-345]	Informant's Name (First name and middle name, Last name) *
C170[CT-346]	Informant's Relationship to Decedent *
C170[CT-347]	Injury at Work *
C170[CT-348]	Kind of Business/Industry *
C170[CT-349]	License Number (Funeral Service Licensee or Other Agent) *
C170[CT-350]	License Number (Person Certifying Cause of Death) *
C170[CT-351]	License Number (Person Pronouncing Death) *
C170[CT-352]	Location where the Injury occurred:
C170[CT-353]	Manner of Death *
C170[CT-354]	Marital Status at time of death *
C170[CT-355]	Method of Disposition *
C170[CT-356]	Mother's Name prior to first marriage (First, Middle, Last, Suffix) *
C170[CT-357]	Name and Address of person completing COD*
C170[CT-358]	Place of Death *
C170[CT-359]	Place of Disposition:
C170[CT-360]	Place of Injury *
C170[CT-361]	Signature of Funeral Service Licensee or other agent – NO VARIABLE IN NCHS Edit Specs*
C170[CT-362]	Signature of Person Pronouncing Death
C170[CT-363]	Surviving Spouse Name *
C170[CT-364]	Time of Death (Actual or Presumed) *
C170[CT-365]	Time of Injury
C170[CT-366]	Title of Certifier
C170[CT-367]	Transportation Injury?
C170[CT-368]	Was Medical Examiner or Coroner contacted?



C170-[DE-8-1] IF (8.21 Indication CONTAINS ValueSet (Neonatal Sepsis) AND (8.13 Coded Product Name CONTAINS ValueSet (Antibiotic)) AND (8.07 Route CONTAINS ValueSet (intramuscular) OR ValueSet (intravenous))), THEN "ANTI" SHALL = "Y" ELSE "N".

C170-[DE-17-1] IF (17.01 Procedure ID CONTAINS ValueSet (Assisted Ventilation immediately following delivery) THEN "AVEN1" SHALL = "Y" ELSE "N".

C170-[DE-17-2] IF (17.01 Procedure ID CONTAINS ValueSet (Assisted Ventilation for 6 or more hours) THEN "AVEN6" SHALL = "Y" ELSE "N".

C170-[DE-7.04-2] IF (7.04 Problem Code CONTAINS ValueSet (VR Significant birth injury)), THEN "BINJ" SHALL = "Y" ELSE "N".

C170-[DE-7.04-4] IF ((AVEN1 = "U") OR (AVEN6 = "U") OR (NICU = "U") OR (SURF = "U") OR (ANTI = "U") OR (SEIZ = "U") OR (BINJ = "U")), THEN "DNA54" SHALL = "1" ELSE "DNA54" SHALL = "0".

C170-[DE-16.11-1] IF (16.11 Facility Location CONTAINS (US VITAL RECORDS FACILITY LOCATION NICU)), THEN "NICU" SHALL = "Y" ELSE "N".

C170-[DE-7.04-3] IF ((AVEN1 = "N") AND (AVEN6 = "N") AND (NICU = "N") AND (SURF = "N") AND (ANTI = "N") AND (SEIZ = "N") AND (BINJ = "N")), THEN "NOA54" SHALL = "Y".

C170-[DE-7.04-1] If (7.04 Problem Code CONTAINS ValueSet (VR Seizure or serious neurologic dysfunction)) THEN "SEIZ" SHALL = "Y" ELSE "N".

C170-[DE-17.01-1] IF (17.01 Procedure ID CONTAINS ValueSet (Newborn Receiving Surfactant Replacement Therapy)), THEN "SURF" SHALL = "Y" ELSE "N".

C170-[DE-15-1] If (15.03 Result Type CONTAINS ValueSet (5 Min Apgar Score)), THEN "APGAR5" = (15.05 Result Value).

C170-[DE-15-2] If ("APGAR5" <6), AND (15.03 Result Type CONTAINS ValueSet (10 Min Apgar Score), THEN "APGAR10" = (15.05 Result Value).

C170-[DE-4.07-1] "ATTENDN" SHALL be populated using HITSP/C83 Section 2.2.1.45 Procedures and Interventions using 4.07 Provider Name WHERE 17.01 Procedure ID contains ValueSet (Delivery).

C170-[DE-4.04-1] IF 17.01 Procedure ID CONTAINS ValueSet (Delivery), THEN IF 4.04 Provider Type CONTAINS ValueSet (MD), THEN "ATTEND" SHALL = "1", ELSE IF 4.04 Provider Type CONTAINS ValueSet (DO), THEN "ATTEND" SHALL = "2", ELSE IF 4.04 Provider Type CONTAINS ValueSet (CNM_CM), THEN "ATTEND" SHALL = "3", ELSE IF 4.04 Provider Type CONTAINS ValueSet (Other midwife), THEN "ATTEND" SHALL = "4", ELSE IF 4.04 Provider Type NOT NULL THEN "ATTEND" SHALL = "5", ELSE "ATTEND" SHALL = "9".

C170-[DE-4.04-2] SHALL be populated using HITSP/C83 Section 2.2.2.8 List of Surgeries using 4.04 Provider Type WHERE 17.01 Procedure ID contains Valueset (Delivery).

C170-[DE-4.04-3] IF 17.01 Procedure ID CONTAINS ValueSet (Delivery) AND "ATTEND" = "5", THEN ATTENDS SHALL = 4.04 Provider Type.

C170-[DE-4.10-1] "NPI" SHALL be populated using HITSP/C83 Section 2.2.2.8 List of Surgeries using 4.10 National Provider ID WHERE 17.01 Procedure ID contains ValueSet (Delivery).

C170-[DE-1.16-7] "CNAME" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.16 Birth Place.

C170-[DE-1.16-6] "FLOC" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.16 Birth Place.

C170-[DE-1.16-3] IF NOT born in the United States, THEN "BPLACE_CNT" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the country part of 1.16 Birth Place.

C170-[DE-1.16-5] "BPLACE_CNT" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the country part of 1.16 Birth Place.

C170-[DE-1.16-1] IF born in the United States, THEN "BPLACE_ST" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the state part of 1.16 Birth Place.

C170-[DE-1.16-2] IF born in the United States Territories, THEN "BPLACE_TER" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the U.S. Territories part of 1.16 Birth Place.



- C170-[DE-1.16-4] IF born in the United States OR United States Territories, THEN "BPLACEC_ST_TER" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the state part of 1.16 Birth Place.
- C170 [DE15-3] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Infant Birth weight), THEN "BWG" SHALL = 15.05 Result Value WHERE 15.05 Result Value Units are expressed in grams
- C170 [DE15-3] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Birth weight), THEN "BWO" SHALL = 15.05 Result Value WHERE 15.05 Result Value Units are expressed in ounces
- C170 [DE15-3] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Birth weight), THEN "BWP" SHALL = 15.05 Result Value WHERE 15.05 Result Value Units are expressed in pounds
- C170-[DE-8-1] IF (8.13 Coded Product Name CONTAINS ValueSet (Antibiotic)) AND (8.07 Route CONTAINS ValueSet (intramuscular) OR ValueSet (intravenous)) AND (17.04 Procedure Date/Time where 17.01 Procedure ID CONTAINS ValueSet(onset of labor)) <(8.03 Administration Timing)< (17.04 Procedure Date/Time where 17.01 Procedure ID CONTAINS ValueSet(delivery)) WHERE (7.01 Problem Date/Time WHERE 7.01 Problem ID CONTAINS valueSet (Onset of labor)) THEN "ANTI" SHALL = "Y" ELSE "N".
- C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (Augmentation of labor - procedure) OR (8.13 Coded Product Name CONTAINS Augmentation of labor - Medication)), THEN "AUGL" SHALL = "Y" ELSE "N".
- C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Chorioamnionitis during labor) AND OR (14.05 Vital sign Result value >= 38 degrees (100.4F)), THEN "CHOR" SHALL = "Y" ELSE "N".
- C170-[DE-7.04-4] IF ((INDL = "U") OR (AUGL = "U") OR (NVPR = "U") OR (STER = "U") OR (ANTB = "U") OR (CHOR = "U") OR (MECS = "U") OR (FINT = "U") OR (ESAN = "U")), THEN "DNA04" SHALL = "1" ELSE "DNA04" SHALL = "0".
- C170-[DE-8.13-#] IF (8.13 Coded Product Name CONTAINS ValueSet (epidural anesthesia) OR ValueSet (spinal anesthesia) AND (17.04 Procedure Date/Time where 17.01 Procedure ID CONTAINS ValueSet(onset of labor)) <(8.03 Administration Timing)< (17.04 Procedure Date/Time where 17.01 Procedure ID CONTAINS ValueSet(delivery)) WHERE (7.01 Problem Date/Time WHERE 7.01 Problem ID CONTAINS valueSet (Onset of labor)) THEN "ESAN" SHALL be "Y" ELSE "N".
- C170-[DE-7.04-2] IF (7.04 Problem Code CONTAINS ValueSet (Fetal Intolerance of labor) AND (17.04 Procedure Code CONTAINS ValueSet (In-utero resuscitation measures) OR ValueSet (Further fetal assessment) OR ValueSet (Operative delivery)), THEN "FINT" SHALL = "Y" ELSE "N".
- C170-[DE-17.01-#] IF (17.01 Procedure ID CONTAINS ValueSet (Induction of labor), AND (17.04 Procedure Date/ Time is > (7.01 Problem Date/Time WHERE 7.04 Problem Code CONTAINS ValueSet (Spontaneous Onset of Labor)), THEN "INDL" SHALL = "Y" ELSE "N"
- C170-[DE-7.04-#2] IF (7.04 Problem Code CONTAINS ValueSet (Meconium staining) WHERE (17.04 Procedure Date/Time CONTAINS ValueSet (Labor) AND/OR (17.04 Procedure Date/Time CONTAINS ValueSet (Delivery)) THEN "MECS" SHALL = "Y" ELSE "N".
- C170-[DE-7.04-#] IF ((INDL = "N") AND (AUGL = "N") AND (NVPR = "N") AND (STER = "N") AND (ANTB = "N") AND (CHOR = "N") AND (MECS = "N") AND (FINT = "N") AND (ESAN = "N")), THEN "NOA54" SHALL = "Y".
- C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Non-vertex presentation in active phase of labor and delivery), THEN "NVPR" SHALL = "Y" ELSE "N".
- C170-[DE-8-#] IF (8.13 Coded Product Name CONTAINS ValueSet (VR Steroids)) AND (8.21 Indication CONTAINS ValueSet (Fetal lung maturation)) AND NOT (8.21 Indication CONTAINS ValueSet (Anti-inflammatory)) AND (8.03 Administration Timing < (17.04 Procedure Date/Time WHERE 17.01 Procedure ID CONTAINS ValueSet (delivery))) THEN "STER" SHALL = "Y" ELSE "N".
- C170-[DE-1.07-1] "IDOB_YR" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Year part of 1.07 Person Date of Birth WHERE the Year is represented using 4-digits



C170-[DE-1.07-2] "IDOB_MO" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Month part of 1.07 Person Date of Birth WHERE the Month is represented using 2-digits

C170-[DE-1.07-3] "IDOB_DY" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Day part of 1.07 Person Date of Birth WHERE the Day is represented using 2-digits

C170-[DE-1.05-X] "FNAME" AND "MNAME" AND "LNAME" AND "SUFF" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information, Data Element 1.05 Person Name.

C170-[DE-data element number -1] If 7.04 Problem Code is value set (Infant being breastfed at discharge) and 11.03 Tense CONTAINS ValueSet (Intent) THEN data element name SHALL be "Y".

C170-[DE-7.09-1 IF Section 2.2.2.7 Condition, 7.07 – Time of Death NOT NULL then "ILIV" SHALL = 'Y' ELSE 'N'

C170-[DE-18.66-1] IF (18.04 Family Member Relationship) CONTAINS ValueSet (Newborn) THEN "IRECNUM" SHALL =18.06 Family Member Identifier

C170-[DE-1.02-2] IF Infant Record Section 2.2.2.1 Personal Information 1.06 Gender CONTAINS ValueSet(Male) THEN "ISEX" SHALL = 'M' ELSE IF IF Infant Record Section 2.2.2.1 Personal Information 1.06 Gender CONTAINS ValueSet(Female) THEN "ISEX" SHALL = 'F' ELSE IF Infant Record Section 2.2.2.1 Personal Information 1.06 Gender CONTAINS ValueSet(Not Yet Determined) THEN "ISEX" SHALL = 'N' ELSE

C170-[DE-16 .09-1] If Infant Record 16.09 Discharge Disposition CONTAINS ValueSet (Discharge Transfer) and (16.04 Encounter Date/Time (High) – 1.07 Person Date of Birth) <= 24 hours THEN ITRAN SHALL = "Y" ELSE ITRAN SHALL = "N"

C170-[DE-16 .09-2] If Infant Record 16.09 Discharge Disposition CONTAINS ValueSet (Discharge Transfer) and (16.04 Encounter Date/Time (High) – 1.07 Person Date of Birth) <= 24 hours THEN FTRAN SHALL = 16.xx Referred to Facility

C170-[DE-1.02-2] "TB" SHALL = Time part of 2.2.2.1 Personal Information 1.07 Person Data of Birth

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use first trimester-cigarettes) THEN "CIGFN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value SHALL be populated with the number of cigarettes

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use first trimester-packs) THEN "CIGFP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value SHALL be populated with the number of packs

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Third Trimester) AND 9.01 Pregnancy, THEN "CIGLN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Third Trimester) AND 9.01 Pregnancy, THEN "CIGLP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Pre-Pregnancy-cigarettes), THEN "CIGPN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Pre-Pregnancy-packs) AND NOT 9.01 Pregnancy, THEN "CIGPP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use second trimester-cigarettes THEN "CIGSN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use second trimester-packs) THEN "CIGSP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs



C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Anencephaly of the Newborn) THEN "ANEN" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Cyanotic congenital heart disease) THEN "CCHD" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Congenital diaphragmatic hernia) THEN "CDH" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Suspected chromosomal disorder karyotype confirmed)) THEN "CDIC" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Suspected chromosomal disorder)) THEN "CDIS" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Suspected chromosomal disorder karyotype pending)) THEN "CDIP" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Cleft Lip with/without Cleft Palate)) "CL" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Cleft Palate alone)) THEN "CL" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF ((ANEN = "N") OR (MNSB = "N") OR (CCHD = "N") OR (CDH = "N") OR (OMPF = "N") OR (GAST = "N") OR (LIMB = "N") OR (CL = "N") OR (CP = "N") OR (DOWN = "N") OR (DOWC = "N") OR (DOWP = "N") OR (CDIS = "N") OR (CDIC = "N") OR (CDIP = "N") OR (HYPO = "N")), THEN "DNA55" SHALL = "1", ELSE "DNA55" SHALL = "0".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Down Karyotype confirmed)) THEN "DOWC" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Down Syndrome)) THEN "DOWN" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Down Karyotype pending)) THEN "DOWC" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Gastroschisis of the Newborn)) THEN "GAST" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Hypospadias)) THEN "HYPO" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Limb reduction defect) THEN "LIMB" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Meningomyelocele of the Newborn) THEN "ANEN" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF ((ANEN = "N") AND (MNSB = "N") AND (CCHD = "N") AND (CDH = "N") AND (OMPF = "N") AND (GAST = "N") AND (LIMB = "N") AND (CL = "N") AND (CP = "N") AND (DOWN = "N") AND (DOWC = "N") AND (DOWP = "N") AND (CDIS = "N") AND (CDIC = "N") AND (CDIP = "N") AND (HYPO = "N")), THEN "NOA55" SHALL = "Y".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Omphalocele of the Newborn) THEN "OMPH" SHALL = "Y" ELSE "N".

C170-[DE-15.8] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Live Birth), THEN (IF Result Value NOT NULL THEN "YLLB" SHALL = the Year part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Year is represented using 4-digits ELSE "YLLB" SHALL = '8888') ELSE "YLLB" SHALL = '9999'.

C170-[DE-15-9] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Live Birth), THEN (IF Result Value NOT NULL THEN "MLLB" SHALL = the Month part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Month is represented using 2-digits ELSE "MLLB" SHALL = '88') ELSE "YLLB" SHALL = '99'.

C170-[DE-15-10] IF NOT HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Live Birth), THEN "YLLB" SHALL = '9999' AND "MLLB" SHALL = '99'.



- C170-[DE-15-11] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Live Birth) AND 15.03 Result Type=ValueSet (Number of Live Births) AND Result Value = '0', THEN "YLLB" SHALL = '8888' AND "MLLB" SHALL = '88'
- C170 [DE15-4]IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Menses), THEN "CM_DLNM" SHALL = 15.05 Result Value WHERE 15.05 Result Value is expressed as Date
- C170-[DE-15.12] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "YOPO" SHALL = the Year part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Year is represented using 4-digits ELSE YOPO" SHALL = '8888') ELSE "YOPO" SHALL = '9999'
- C170-[DE-15-13] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "MOPO" SHALL = the Month part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Month is represented using 2-digits ELSE MOPO" SHALL = '88') ELSE "MOPO" SHALL = '99'
- C170-[DE-1.16.19-1] "Facility Address" SHALL be populated using HITSP/C83 Section 2.1.2.16 Encounter 16.19 Facility Address
- C170-[DE-1.16.17-1] "Facility ID" SHALL be populated using HITSP/C83 Section 2.1.2.16 Encounter 16.17 Facility ID
- C170-[DE-16.18-1] "FNAME" SHALL be populated using HITSP/C83 Section 2.1.2.16 Encounter 16.18 Facility Name
- C170-[DE-4.16.17-2] "FNPI" SHALL be populated using HITSP/C83 Section 2.1.2.16 Encounter 16.17 Facility ID WHERE the ID is the National Provider ID
- C170-[DE-18-1] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Ethnicity CONTAINS ValueSet (Hispanic Ethnicity - Mexican/ Mexican American/ Chicana) THEN "FETHNIC1" = 'H' ELSE if Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN FETHNIC1" = "N" ELSE "FETHNIC1" = 'U';
- C170-[DE-18-2] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Puerto Rican) THEN "FETHNIC2" = 'H' ELSE if Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN FETHNIC2" = "N" ELSE "FETHNIC2" = 'U';
- C170-[DE-18-3] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Cuban) THEN "FETHNIC3" = 'H' ELSE if Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN FETHNIC3" = "N" ELSE "FETHNIC3" = 'U';
- C170-[DE-18-4] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Other Spanish/Hispanic/Latina) THEN "FETHNIC4" = 'H' ELSE if Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN FETHNIC4" = "N" ELSE "FETHNIC4" = 'U';
- C170-[DE-18-5] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FETHNIC5" = 18.10 Family Member Ethnicity
- C170-[DE-18-6] IF] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN FBPLACE_ST_TER_L SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the State or Territory part of 18.03 - Family Member Demographics.
- C170-[DE-18-7] IF] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN FBPLACE_CNT_L SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Country part of 18.03 - Family Member Demographics
- C170-[DE-18-8] IF] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN FBPLACE_ST_TER_C SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Coded State or Territory part of 18.03 - Family Member Demographics.
- C170-[DE-18-9] IF] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN FBPLACE_CNT_C SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Coded Country part of 18.03 - Family Member Demographics



C170-[DE-18-10] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FFNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the First Name part of 18.07 - Family Member Name

C170-[DE-18-11] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FMNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Middle Name part of 18.07 - Family Member Name

C170-[DE-18-12] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FMNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name part of 18.07 - Family Member Name

C170-[DE-18-13] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FLNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name part of 18.07 - Family Member Name

C170-[DE-18-14] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FSUFF" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name Suffix part of 18.07 - Family Member Name

C170-[DE-18-15] IF (18.04 Family Member Relationship) = ValueSet (Father) AND 18.07 - Family Member Name <> NULL THEN "FNREF" SHALL = 'Y' ELSE "FNREF" SHALL = 'N'

C170-[DE-18-16] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FDOB_YR" SHALL = Year Part of 18.08 - Family Member Date of Birth WHERE the Year is represented using 4-digits

C170-[DE-18-17] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FDOB_MO" SHALL = Month Part of 18.08 - Family Member Date of Birth WHERE the Month is represented using 2-digits

C170-[DE-18-18] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FDOB_DY" SHALL = Day Part of 18.08 - Family Member Date of Birth WHERE the Day is represented using 2-digits

C170-[DE-18-19] IF] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FEDUC" SHALL = 18.xx Family Member Education

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "FRACE1" = 'Y' ELSE if Race NOT NULL THEN FRACE1" = "N" ELSE "FRACE1" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "FRACE2" = 'Y' ELSE if Race NOT NULL THEN FRACE2" = "N" ELSE "FRACE2" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "FRACE3" = 'Y' ELSE if Race NOT NULL THEN FRACE3" = "N" ELSE "FRACE3" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Asian Indian) THEN "FRACE4" = 'Y' ELSE if Race NOT NULL THEN FRACE4" = "N" ELSE "FRACE4" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Chinese) THEN "FRACE5" = 'Y' ELSE if Race NOT NULL THEN FRACE5" = "N" ELSE "FRACE5" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Filipino) THEN "FRACE6" = 'Y' ELSE if Race NOT NULL THEN FRACE6" = "N" ELSE "FRACE6" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Japanese) THEN "FRACE7" = 'Y' ELSE if Race NOT NULL THEN FRACE7" = "N" ELSE "FRACE7" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Korean) THEN "FRACE8" = 'Y' ELSE if Race NOT NULL THEN FRACE8" = "N" ELSE "FRACE8" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Vietnamese) THEN "FRACE9" = 'Y' ELSE if Race NOT NULL THEN FRACE9" = "N" ELSE "FRACE9" = 'U'



C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "FRACE10" = 'Y' ELSE if Race NOT NULL THEN FRACE10" = "N" ELSE "FRACE10" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Native Hawaiian) THEN "FRACE11" = 'Y' ELSE if Race NOT NULL THEN FRACE11" = "N" ELSE "FRACE11" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Guamanian or Chamorro) THEN "FRACE12" = 'Y' ELSE if Race NOT NULL THEN FRACE12" = "N" ELSE "FRACE12" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Samoan) THEN "FRACE13" = 'Y' ELSE if Race NOT NULL THEN FRACE13" = "N" ELSE "FRACE13" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Pacific Islander) THEN "FRACE14" = 'Y' ELSE if Race NOT NULL THEN FRACE14" = "N" ELSE "FRACE14" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "FRACE15" = 'Y' ELSE if Race NOT NULL THEN FRACE15" = "N" ELSE "FRACE15" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "FRACE16" SHALL = 18.09- Family Member Race

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "FRACE17" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (American Indian or Alaska Native)

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "FRACE18" SHALL = 18.09- Family Member Race

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "FRACE19" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Asian)

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "FRACE22" SHALL = 18.09- Family Member Race

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "FRACE23" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Race)

C170-[DE-18-21] "FSSN" SHALL be populated using HITSP/C83 Section 18.04 Family Member Relationship using 18.06 Family Member Identifier where the Identifier is the Father's Social Security Number

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Chlamydia)) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant) AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "CHAM" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#1] IF (7.04 Problem Code CONTAINS ValueSet (Gonorrhea) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant) AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "GON" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Hepatitis B)) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant) AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "HEPB" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Hepatitis C)) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant)



AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "HEPC" SHALL = "Y" ELSE "N".

C170-[DE-7.04-#] IF ((GON = "N") AND (SYPH = "N") AND (CHAM = "N") AND (HEPB = "N") AND (HEPCI = "N"), THEN "NOA02" SHALL = "Y".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Syphilis)) THEN IF 7.01 Problem Date/Time > (7.01 Problem Date/Time Where 7.04 Problem Code CONTAINS ValueSet (Pregnant) AND 7.12 Problem Status CONTAINS ValueSet (Problem Status Active)) THEN "SYPH" SHALL = "Y" ELSE "N".

C170-[DE-16.11-#] IF (16.11 Facility Code CONTAINS ValueSet (Facility Location ICU) AND (17.04 procedure date/time (low) <= In Facility Location Duration (low) <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) THEN "AINT" SHALL be "Y" ELSE "N".

C170-[DE-8-#] IF 8.21 Indication CONTAINS ValueSet (Maternal Transfusion) AND ((8.13 Coded Product Name CONTAINS ValueSets (whole blood) OR (packed red blood cells)) AND 8.07 Route CONTAINS ValueSet (intravenous) AND (17.04 procedure date/time (low) <= 8.03 - Administration Timing <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)), THEN "MTR" SHALL be "Y" ELSE "N".

C170-[DE-7.04-#] IF ((MTR = "N") AND (PLAC = "N") AND (RUT = "N") AND (UHYS = "N") AND (AINT= "N") AND (UOPR = "N")), THEN "NOA05" SHALL be "Y".

C170-[DE-7.04-2] IF (7.04 Problem Code CONTAINS ValueSet (third degree perineal laceration) OR (fourth degree perineal laceration) AND (17.04 procedure date/time (low) <= 7.01 Problem Date <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) THEN "PLAC" SHALL be "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (ruptured uterus) AND (17.04 procedure date/time (low) <= 7.01 Problem Date <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) THEN "RUT" SHALL be "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (unplanned hysterectomy)) AND (17.04 procedure date/time (low) <= 7.01 Problem Date <= 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) THEN "UHYS" SHALL be "Y" ELSE "N".

C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (unplanned operation) AND (16.11 Facility Code CONTAINS ValueSet (Facility Location OR) AND (In Facility Location Duration (low) > 17.04 procedure date/time (high) WHERE 17.01 Procedure CONTAINS (delivery)) "UOPR" SHALL be "Y" ELSE "N".

C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (attempted forceps)), THEN "ATTF" SHALL be "Y" ELSE "N".

C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (attempted vacuum)), THEN "ATTV" SHALL be "Y" ELSE "N".

C170-[DE-7.04-#] IF (7.04 Problem Code CONTAINS ValueSet (Fetal Presentation at birth- Cephalic) THEN "PRES" SHALL = "1" ELSE IF (7.04 Problem Code CONTAINS ValueSet (Fetal Presentation at birth- Breech) THEN "PRES" SHALL = "2" ELSE IF (7.04 Problem Code CONTAINS ValueSet (Fetal Presentation at birth- Other) THEN "PRES" SHALL = "3" ELSE "PRES" SHALL = "9"

C170-[DE-17.01-#] IF (17.01 Procedure Code CONTAINS ValueSet (Route and Method of Delivery - Spontaneous delivery) THEN "ROUT" SHALL = "1" ELSE IF 17.01 Procedure Code CONTAINS ValueSet (Route and Method of Delivery - Forceps delivery) THEN "ROUT" SHALL = "2" ELSE IF 17.01 Procedure Code CONTAINS ValueSet (Route and Method of Delivery - Vacuum delivery) THEN "ROUT" SHALL = "3" ELSE IF 17.01 Procedure Code CONTAINS ValueSet (Route and Method of Delivery - cesarean delivery) THEN "ROUT" SHALL = "4" ELSE "ROUT" SHALL = "9".

C170-[DE-17.01-#] IF 17.01 Procedure Code CONTAINS ValueSet (Cesarean) THEN (IF (17.01 Procedure Code CONTAINS ValueSet (trial of labor attempted) THEN "TLAB" SHALL be "Y" ELSE IF 17.01 Procedure Code CONTAINS ValueSet (Scheduled Cesarean) THEN "TLAB" SHALL = "X" ELSE IF 17.04 = NULL THEN "U") ELSE "N".

C170-[DE-1.08-1] IF (1.08 Marital Status CONTAINS ValueSet (Previously Married) OR ValueSet (Currently Married) THEN "MARE" SHALL = 'Y' ELSE IF 1.08 Marital Status CONTAINS ValueSet (Never Married) THEN "MARE" SHALL = 'N' ELSE "MARE" SHALL = 'U'



C170 [DE15-3] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (mother married at birth) OR ValueSet(mother married at conception) OR ValueSet(mother married any time between conception and birth), THEN "BWG" SHALL = 15.05 Result Value WHERE 15.05 Result Value Units are expressed in grams

C170-[DE-1.11-1] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity - Mexican/ Mexican American/ Chicana) THEN "METHNIC1" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN METHNIC1" = "N" ELSE "METHNIC1" = 'U';

C170-[DE-1.11-2] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Puerto Rican) THEN "METHNIC2" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN METHNIC2" = "N" ELSE "METHNIC2" = 'U';

C170-[DE-1.11-3] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Cuban) THEN "METHNIC3" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN METHNIC3" = "N" ELSE "METHNIC3" = 'U';

C170-[DE-1.11-4] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Other Spanish/Hispanic/Latina) THEN "METHNIC4" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN METHNIC4" = "N" ELSE "METHNIC4" = 'U';

C170-[DE-1.11-5] I "FETHNIC5" SHALL = 11.11 Ethnicity

C170-[DE-1.05-1] "MFNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the First Name part of 1.05 - Person Name

C170-[DE-1.05-2] "MMNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Middle Name part of part of 1.05 - Person Name

C170-[DE-1.05-4] "MLNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Last Name part of part of 1.05 - Person Name

C170-[DE-1.05-5] "MSUFF" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Last Name Suffix part of part of 1.05 - Person Name

C170-[DE-1.07-1] "MDOB_YR" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using Year Part of 1.07 Person Date of Birth WHERE the Year is represented using 4-digits

C170-[DE-1.07-1] "MDOB_MO" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using Month Part of 1.07 Person Date of Birth WHERE the Month is represented using 2-digits

C170-[DE-1.07-3] "MDOB_DY" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using Day Part of 1.07 Person Date of Birth WHERE the Day is represented using 2-digits

C170-[DE-19.04-1] IF Section 2.2.2.19 Social History 19.02 Social History Type CONTAINS (Social History Type-Education) THEN (IF 19.04 Social History Observed Value CONTAINS ValueSet(8th grade or less) THEN "MEDUC" SHALL = "1" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(9th through 12th grade; no diploma) THEN "MEDUC" SHALL = "2" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(High school graduate or GED completed) THEN "MEDUC" SHALL = "3" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Some college credit, but not a degree) THEN "MEDUC" SHALL = "4" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Associate degree (e.g., AA, AS)) THEN "MEDUC" SHALL = "5" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Bachelor's degree (e.g., BA, AB, BS)) THEN "MEDUC" SHALL = "6" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA)) THEN "MEDUC" SHALL = "7" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA)) THEN "MEDUC" SHALL = "8" ELSE "MEDUC" SHALL = "9"

C170 [DE15-5] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Height), THEN "HFT" SHALL = feet part of 15.05 Result Value WHERE 15.05 Result Value Units are expressed in Feet and Inches

C170 [DE15-6] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Height), THEN "HFT" SHALL = Inches part of 15.05 Result Value WHERE 15.05 Result Value Units are expressed in Feet and Inches



C170-[DE-1.03-1] "MSTNAME" SHALL be populated using Section 2.2.2.1 Personal Information using the Street part of an address 1.03 Person Address

C170-[DE-1.03-2] "MAPT" SHALL be populated using Section 2.2.2.1 Personal Information using the Apartment part of an address 1.03 Person Address

C170-[DE-1.03-3] "MCITY" SHALL be populated using Section 2.2.2.1 Personal Information using the City part of an address 1.03 Person Address

C170-[DE-1.03-4] "MZIP" SHALL be populated using Section 2.2.2.1 Personal Information using the Postal Code part of an address 1.03 Person Address

C170-[DE-1.03-5] "MSTATE" SHALL be populated using Section 2.2.2.1 Personal Information using the State part of an address 1.03 Person Address

C170-[DE-1.03-6] "MCOUNTRY" SHALL be populated using Section 2.2.2.1 Personal Information using the Country part of an address 1.03 Person Address

C170-[DE-1.02-1] "MRECNUM" SHALL be populated using Section 2.2.2.1 Personal Information using 1.02 Person ID Where Person ID represents the Mother's Medical Record Number

C170-[DE-1.05-6] "MFNAMEP" SHALL be populated using The First Name part of the Patient name using HITSP/C83 Section 2.2.2.1 Personal Information 1.05 Patient Name where Name is the Mother's Name Prior to First Marriage

C170-[DE-1.05-7] "MMNAMEP" SHALL be populated using The Middle Name part of the Patient name using HITSP/C83 Section 2.2.2.1 Personal Information 1.05 Patient Name where Name is the Mother's Name Prior to First Marriage

C170-[DE-1.05-8] "MLNAMEP" SHALL be populated using The Last Name part of the Patient name using HITSP/C83 Section 2.2.2.1 Personal Information 1.05 Patient Name where Name is the Mother's Name Prior to First Marriage

C170-[DE-1.05-9] "MFNAMEP" SHALL be populated using The Suffix part of the Patient name using HITSP/C83 Section 2.2.2.1 Personal Information 1.05 Patient Name where Name is the Mother's Name Prior to First Marriage

C170 [DE15-8] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Mother's Pre-pregnancy weight), THEN "PWGT" SHALL = 15.05 Result Value

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "MRACE1" = 'Y' ELSE if Race NOT NULL THEN MRACE1" = "N" ELSE "MRACE1" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "MRACE2" = 'Y' ELSE if Race NOT NULL THEN MRACE2" = "N" ELSE "MRACE2" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "MRACE3" = 'Y' ELSE if Race NOT NULL THEN MRACE3" = "N" ELSE "MRACE3" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Asian Indian) THEN "MRACE4" = 'Y' ELSE if Race NOT NULL THEN MRACE4" = "N" ELSE "MRACE4" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Chinese) THEN "MRACE5" = 'Y' ELSE if Race NOT NULL THEN MRACE5" = "N" ELSE "MRACE5" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Filipino) THEN "MRACE6" = 'Y' ELSE if Race NOT NULL THEN MRACE6" = "N" ELSE "MRACE6" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Japanese) THEN "MRACE7" = 'Y' ELSE if Race NOT NULL THEN MRACE7" = "N" ELSE "MRACE7" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Korean) THEN "MRACE8" = 'Y' ELSE if Race NOT NULL THEN MRACE8" = "N" ELSE "MRACE8" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Vietnamese) THEN "MRACE9" = 'Y' ELSE if Race NOT NULL THEN MRACE9" = "N" ELSE "MRACE9" = 'U'



C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "MRACE10" = 'Y' ELSE if Race NOT NULL THEN MRACE10" = "N" ELSE "MRACE10" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Native Hawaiian) THEN "MRACE11" = 'Y' ELSE if Race NOT NULL THEN MRACE11" = "N" ELSE "MRACE11" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Guamanian or Chamorro) THEN "MRACE12" = 'Y' ELSE if Race NOT NULL THEN MRACE12" = "N" ELSE "MRACE12" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Samoan) THEN "MRACE13" = 'Y' ELSE if Race NOT NULL THEN MRACE13" = "N" ELSE "MRACE13" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Pacific Islander) THEN "MRACE14" = 'Y' ELSE if Race NOT NULL THEN MRACE14" = "N" ELSE "MRACE14" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "MRACE15" = 'Y' ELSE if Race NOT NULL THEN MRACE15" = "N" ELSE "MRACE15" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "MRACE16" SHALL = 18.09- Family Member Race

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "MRACE17" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (American Indian or Alaska Native)

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "MRACE18" SHALL = 18.09- Family Member Race

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "MRACE19" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Asian)

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "MRACE22" SHALL = 18.09- Family Member Race

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "MRACE23" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Race)

C170-[DE-1.03-1] "UNUM" SHALL be populated using Section 2.2.2.1 Personal Information using the Apartment part of an address 1.03 Person Address

C170-[DE-1.03-2] "CITY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.03 Person Address.

C170-[DE-1.03-3] "CITYC" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City Code part of 1.03 Person Address.

C170-[DE-1.03-4] "COUNTY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.03 Person Address.

C170-[DE-1.03-6] "LIMITS" SHALL be populated using Section 2.2.2.1 Personal Information using the City Limits part of an address 1.03 Person Address

C170-[DE-1.02-2] "MSSN" SHALL be populated using Section 2.2.2.1 Personal Information using 1.02 Person ID Where Person ID represents the Mother's Social Security Number

C170-[DE-16 .06-2] IF 16.06 Admission Source is value set (Mother transferred) and 7.04 Problem Code is value set (for maternal medical or fetal indications for delivery), THEN NFACL SHALL = 16.xx Referring Facility Name ELSE NFACL SHALL = NULL



C170-[DE-16 .06-1] If 16.06 Admission Source is value set (Mother transferred) and 7.04 Problem Code is value set (for maternal medical or fetal indications for delivery), THEN TRAN SHALL = "Y" ELSE IF 16.06 NOT NULL, THEN TRAN SHALL = "N" ELSE TRAN SHALL = "U".

C170 [DE15-9]IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Mother's weight at delivery), THEN "DWGT" SHALL = 15.05 Result Value

C170 [DE15-12]IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Previous other pregnancy outcomes), THEN "POBO" SHALL = 15.05 Result Value

C170 [DE15-10]IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Previous Live Births now Dead), THEN "PLBD" SHALL = 15.05 Result Value

C170 [DE15-11]IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Previous Live Births now Living), THEN "PLBL" SHALL = 15.05 Result Value

C170 [DE15-13]IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Obstetric Estimate of Gestation), THEN "OWGEST" SHALL = 15.05 Result Value

C170 [DE-17.01-2]IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code CONTAINS ValueSet (Obstetric Procedures Cervical Cerclage), THEN "CERV" SHALL = 'Y' ELSE IF 17.01 Procedure Code = NULL THEN 'U' ELSE 'N'

C170 [DE-17.01-5]IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code CONTAINS ValueSet (Failed External cephalic version), THEN "ECVF" SHALL = 'Y' ELSE IF 17.01 Procedure Code = NULL THEN 'U' ELSE 'N'

C170 [DE-17.01-4]IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code CONTAINS ValueSet (Successful External cephalic version), THEN "ECVS" SHALL = 'Y' ELSE IF 17.01 Procedure Code = NULL THEN 'U' ELSE 'N'

C170-[DE-17.01-6] IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code NOT (CONTAINS ValueSet (Obstetric Procedures Cervical Cerclage) OR ValueSet(Obstetric Procedures Tocolysis) OR ValueSet(Successful External cephalic version) OR ValueSet(Failed External cephalic version)) THEN THEN "NOA03" SHALL = "Y" ELSE "N".

C170 [DE-17.01-3]IF HITSP/C83 Section 2.2.2.45 Procedures and Interventions Section 17.01 Procedure Code CONTAINS ValueSet (Obstetric Procedures Tocolysis), THEN "TOC" SHALL = 'Y' ELSE IF 17.01 Procedure Code = NULL THEN 'U' ELSE 'N'

C170 [DE-7.04-5]IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Premature rupture), THEN "PROM" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PROM" SHALL = 'U' ELSE "PROM" SHALL = 'N'

C170 [DE-7.04-6]IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Precipitous labor), THEN "PRIC" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PRIC" SHALL = 'U' ELSE "PRIC" SHALL = 'N'

C170 [DE-7.04-7]IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Prolonged labor), THEN "PROL" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PROL" SHALL = 'U' ELSE "PROL" SHALL = 'N'

C170-[DE-7.04-8] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code NOT (CONTAINS ValueSet (Premature rupture) OR ValueSet(Precipitous labor) OR ValueSet(Prolonged labor) THEN "NOA05" SHALL = "Y" ELSE IF 7.04 Problem Code = 'NULL' THEN "NOA05" SHALL = 'U' ELSE "N".

C170 [DE-1.16-1] "FNAME" SHALL = Facility Name part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place taken from the newborn's record

C170 [DE-1.16-2] "FNPI" SHALL = Facility ID part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place WHERE Facility ID is the NPI taken from the newborn's record

C170 [DE-1.16-3] "SFN" SHALL = Facility ID part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place WHERE Facility ID is the State Facility Number taken from the newborn's record



C170 [DE-1.16-4] "FLOC" SHALL = City/Town part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place taken from the newborn's record

C170 [DE-1.16-5] "CNAME" SHALL = County name part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place taken from the newborn's record

C170 [DE-1.16-6] "CNTYO" SHALL = County Code part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place taken from the newborn's record

C170 [DE-1.16-6] "BPLACE" SHALL = Birth Place part of HITSP/C83 Section 2.2.2.15 Personal Information 1.16 Birth Place using ValueSet(Vital Records Birth Place)

C170 [DE15-14] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Birth Plurality of Delivery), THEN "PLUR" SHALL = 15.05 Result Value

C170-[DE-15.5] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of First Prenatal Care Visit), THEN "DOFP_YR" SHALL = the Year part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Year is represented using 4-digits ELSE IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (No Prenatal Care) THEN "DOFP_YR" SHALL = '8888' ELSE "DOFP_YR" SHALL = '9999'

C170-[DE-15-6] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of First Prenatal Care Visit), THEN "DOFP_MO" SHALL = the Month part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Month is represented using 2-digits ELSE IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (No Prenatal Care) THEN "DOFP_MO" SHALL = '88' ELSE "DOFP_MO" SHALL = '99'

C170-[DE-15-7] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of First Prenatal Care Visit), THEN "DOFP_DY" SHALL = the Day part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Day is represented using 2-digits ELSE IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (No Prenatal Care) THEN "DOFP_DY" SHALL = '88' ELSE "DOFP_DY" SHALL = '99'

C170-[DE-15.16] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "DOLP_YR" SHALL = the Year part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Year is represented using 4-digits ELSE DOLP_YR" SHALL = '8888') ELSE "DOLP_YR" SHALL = '9999'

C170-[DE-15-17] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "DOLP_MO" SHALL = the Month part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Month is represented using 2-digits ELSE DOLP_MO" SHALL = '88') ELSE "DOLP_MO" SHALL = '99'

C170-[DE-15-18] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Other Pregnancy Outcome), THEN (IF Result Value NOT NULL THEN "DOLP_DY" SHALL = the Day part of 15.05 Result Value WHERE 15.05 Result Value is expressed as Date AND WHERE the Day is represented using 2-digits ELSE DOLP_DY" SHALL = '88') ELSE "DOLP_DY" SHALL = '99'

C170 [DE15-16] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Prenatal Visits for this Pregnancy), THEN "NPREV" SHALL = 15.05 Result Value

C170 [DE5.02-1] "PAY" SHALL = HITSP/C83 Section 2.2.1.1 Payers Section 5.02 Health Insurance Type

C170 [DE-7.04-9] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Prepregnancy diabetes), THEN "PDIAB" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PDIAB" SHALL = 'U' ELSE "PDIAB" SHALL = 'N'

C170 [DE-7.04-10] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Gestational diabetes), THEN "GDIAB" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "GDIAB" SHALL = 'U' ELSE "GDIAB" SHALL = 'N'

C170 [DE-7.04-11] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Prepregnancy hypertension), THEN "PHYPE" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PHYPE" SHALL = 'U' ELSE "PHYPE" SHALL = 'N'



- C170 [DE-7.04-12] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Gestational hypertension), THEN "GHYPE" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "GHYPE" SHALL = 'U' ELSE "GHYPE" SHALL = 'N'
- C170 [DE-7.04-13] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Eclampsia), THEN "EHYPE" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "EHYPE" SHALL = 'U' ELSE "EHYPE" SHALL = 'N'
- C170 [DE-7.04-14] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Previous preterm births) THEN "PPB" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PPB" SHALL = 'U' ELSE "PPB" SHALL = 'N'
- C170 [DE-7.04-15] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Poor pregnancy outcomes) THEN "PPO" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PPO" SHALL = 'U' ELSE "PPO" SHALL = 'N'
- C170 [DE-7.04-16] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Vaginal bleeding) THEN "VB" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "VB" SHALL = 'U' ELSE "VB" SHALL = 'N'
- C170 [DE-7.04-17] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Infertility treatment) THEN "INFT" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "INFT" SHALL = 'U' ELSE "INFT" SHALL = 'N'
- C170 [DE-7.04-17] IF HITSP/C83 Section 2.2.1.13 Admission Medications History Section 8.13 Coded Product Name CONTAINS ValueSet (Infertility: Fertility Enhancing Drugs) THEN "INFT_DRG" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "INFT_DRG" SHALL = 'U' ELSE "INFT_DRG" SHALL = 'N'
- C170 [DE-7.04-18] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Infertility: Asst. Rep. Technology) THEN "INFT_ART" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "INFT_ART" SHALL = 'U' ELSE "INFT_ART" SHALL = 'N'
- C170 [DE-7.04-19] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code CONTAINS ValueSet (Previous cesarean) THEN "PCES" SHALL = 'Y' ELSE IF 7.04 Problem Code = 'NULL' THEN "PCES" SHALL = 'U' ELSE "PCES" SHALL = 'N'
- C170 [DE-15-15] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of previous cesareans), THEN "NPCES" SHALL = 15.05 Result Value
- C170-[DE-7.04-9] IF HITSP/C83 Section 2.2.1.3 Problem List Section 7.04 Problem Code NOT (CONTAINS ValueSet (Prepregnancy diabetes) OR ValueSet (Gestational diabetes) OR ValueSet (Prepregnancy hypertension) OR ValueSet (Gestational hypertension) OR ValueSet (Eclampsia) OR ValueSet (Previous preterm births) OR ValueSet (Poor pregnancy outcomes) OR ValueSet (Vaginal bleeding) OR ValueSet (Infertility treatment) OR ValueSet (Infertility: Fertility Enhancing Drugs) OR ValueSet (Infertility: Asst. Rep. Technology) OR ValueSet (Previous cesarean) THEN "NOA05" SHALL = "Y" ELSE IF 7.04 Problem Code = 'NULL' THEN "NOA01" SHALL = 'U' ELSE "N".
- C170-[DE-1.14-1] IF HITSP/C83 Section 2.2.2.1 Personal Information using 1.13 Multiple Birth = 'Y' THEN "SORD" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using 1.14 Birth Order AND using '99' where not known ELSE IF Multiple Birth = 'N' "SORD" SHALL = '88'
- C170-[DE-4.07-1] "ATTENDN" SHALL be populated using HITSP/C83 Section 2.2.1.45 Procedures and Interventions using 4.07 Provider Name WHERE 17.01 Procedure ID contains ValueSet (Delivery).
- C170-[DE-4.04-1] IF 17.01 Procedure ID CONTAINS ValueSet (Delivery), THEN IF 4.04 Provider Type CONTAINS ValueSet (MD), THEN "ATTEND" SHALL = "1", ELSE IF 4.04 Provider Type CONTAINS ValueSet (DO), THEN "ATTEND" SHALL = "2", ELSE IF 4.04 Provider Type CONTAINS ValueSet (CNM_CM), THEN "ATTEND" SHALL = "3", ELSE IF 4.04 Provider Type CONTAINS ValueSet (Other midwife), THEN "ATTEND" SHALL = "4", ELSE IF 4.04 Provider Type NOT NULL THEN "ATTEND" SHALL = "5", ELSE "ATTEND" SHALL = "9".
- C170-[DE-4.04-2] SHALL be populated using HITSP/C83 Section 2.2.2.8 List of Surgeries using 4.04 Provider Type WHERE 17.01 Procedure ID contains ValueSet (Delivery).
- C170-[DE-4.04-3] IF 17.01 Procedure ID CONTAINS ValueSet (Delivery) AND "ATTEND" = "5", THEN ATTENDS SHALL = 4.04 Provider Type.



C170-[DE-4.10-1] "NPI" SHALL be populated using HITSP/C83 Section 2.2.2.8 List of Surgeries using 4.10 National Provider ID WHERE 17.01 Procedure ID contains ValueSet (Delivery).

C170-[DE-1.16-1] IF born in the United States, THEN "BPLACE_ST" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the state part of 1.16 Birth Place.

C170-[DE-1.16-2] IF born in the United States Territories, THEN "BPLACE_TER" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the U.S. Territories part of 1.16 Birth Place.

C170-[DE-1.16-3] IF NOT born in the United States, THEN "BPLACE_CNT" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the country part of 1.16 Birth Place.

C170-[DE-1.16-4] IF born in the United States OR United States Territories, THEN "BPLACEEC_ST_TER" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the state part of 1.16 Birth Place.

C170-[DE-1.16-5] "BPLACEEC_CNT" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the country part of 1.16 Birth Place.

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Pre-Pregnancy-cigarettes), THEN "CIGPN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes, and using '99' where quantity is unknown

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Pre-Pregnancy-packs) AND NOT 9.01 Pregnancy, THEN "CIGPP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs, and using '99' where quantity is unknown

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use first trimester-cigarettes) THEN "CIGFN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes, and using '99' where quantity is unknown

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use first trimester-packs) THEN "CIGFP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs, and using '99' where quantity is unknown

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use second trimester-cigarettes) THEN "CIGSN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes, and using '99' where quantity is unknown

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use second trimester-packs) THEN "CIGSP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs, and using '99' where quantity is unknown

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Third Trimester) AND 9.01 Pregnancy, THEN "CIGLN" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of cigarettes, and using '99' where quantity is unknown

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Tobacco Use Third Trimester) AND 9.01 Pregnancy, THEN "CIGLP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value populated with the number of packs, and using '99' where quantity is unknown

IF 17.01 Procedure ID CONTAINS ValueSet (Delivery) THEN "TD" SHALL = 17.04 Procedure Date/Time

C170 [DE15-4] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type = ValueSet (Date of Last Menses), THEN "CM_DLNM" SHALL = 15.05 Result Value WHERE 15.05 Result Value is expressed as Date

C170-[DE-1.16-6] "FLOC" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.16 Birth Place.

C170-[DE-1.16-7] "CNAME" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.16 Birth Place of fetal record.



C170 [DE15-5] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Fetal Death), THEN "ETIME" SHALL = 15.05 Result Value WHERE 15.05 Result Value is expressed as date/time

C170 [DE15-x] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Live Births this Delivery), THEN SHALL = 15.05 Result Value

C170 [DE15-x] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Hysterotomy/Hysterectomy), THEN "HYST" SHALL = 15.05 Result Value

C170-[DE-1.03-1] "UNUM" SHALL be populated using Section 2.2.2.1 Personal Information using the Apartment part of an address 1.03 Person Address

C170-[DE-1.03-2] "CITY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.03 Person Address.

C170-[DE-1.03-3] "CITYC" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City Code part of 1.03 Person Address.

C170-[DE-1.03-4] "COUNTY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.03 Person Address.

C170 [DE15-11] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Other Pregnancy Outcomes), THEN SHALL = 15.05 Result Value

C170 [DE15-x] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Number of Cesarean Sections), THEN SHALL = 15.05 Result Value

C170 [DE15-XX] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Time of Delivery), THEN "TD" SHALL = 15.05 Result Value

C170-[DE-17-x] IF (17.01 Procedure ID CONTAINS ValueSet (Histological Placental Examination) THEN "HISTOP" SHALL = "Y" ELSE "N".

C170-[DE-17-x] IF (17.01 Procedure ID CONTAINS ValueSet (Fetal Autopsy) THEN "AUTOP" SHALL = "Y" ELSE "N".

C170 [DE15-XX] IF HITSP/C83 Section 2.2.2.15 Results Section 15.03 Result Type CONTAINS ValueSet (Weight of Fetus THEN "FWG" SHALL = 15.05 Result Value WHERE units are specified in Grams

C170-[DE-17-x] IF (17.01 Procedure ID CONTAINS ValueSet (Autopsy) THEN "AUTOP" SHALL = "Y" ELSE "N".

C170-[DE-17-x] IF "AUTOP" = "Y" THEN "AUTOPF" SHALL = NOT NULL

C170-[DE-1.07-x] "DOB_YR" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Year part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_MO" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Month part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_DY" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Day part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_YR" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Year part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_MO" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Month part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_DY" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Day part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_YR" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Year part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_MO" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Month part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_DY" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Day part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_YR" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Year part of 1.07 Birth Date Time

C170-[DE-1.07-x] "DOB_MO" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Month part of 1.07 Birth Date Time



C170-[DE-1.07-x] "DOB_DY" SHALL be populated HITSP/C83 Section 2.1.2.1 Personal Information using the Day part of 1.07 Birth Date Time

C170-[DE-1.11-1] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity - Mexican/ Mexican American/ Chicana) THEN "DETHNIC1" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN DETHNIC1" = "N" ELSE "DETHNIC1" = 'U';

C170-[DE-1.11-2] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Puerto Rican) THEN "DETHNIC2" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN DETHNIC2" = "N" ELSE "DETHNIC2" = 'U';

C170-[DE-1.11-3] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Cuban) THEN "DETHNIC3" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN DETHNIC3" = "N" ELSE "DETHNIC3" = 'U';

C170-[DE-1.11-4] IF 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Other Spanish/Hispanic/Latina) THEN "DETHNIC4" = 'H' ELSE if 1.11 Ethnicity CONTAINS ValueSet (Hispanic Ethnicity – Not Spanish/Hispanic/Latina) THEN DETHNIC4" = "N" ELSE "DETHNIC4" = 'U';

C170-[DE-1.11-5] I "DETHNIC5" SHALL = 11.11 Ethnicity

C170-[DE-19.04-1] IF Section 2.2.2.19 Social History 19.02 Social History Type CONTAINS (Social History Type-Education) THEN

(IF 19.04 Social History Observed Value CONTAINS ValueSet(8th grade or less) THEN "DEDUC" SHALL = "1" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(9th through 12th grade; no diploma) THEN "DEDUC" SHALL = "2" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(High school graduate or GED completed) THEN "DEDUC" SHALL = "3" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Some college credit, but not a degree) THEN "DEDUC" SHALL = "4" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Associate degree (e.g., AA, AS)) THEN "DEDUC" SHALL = "5" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Bachelor's degree (e.g., BA, AB, BS)) THEN "DEDUC" SHALL = "6" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA)) THEN "DEDUC" SHALL = "7" ELSE IF 19.04 Social History Observed Value CONTAINS ValueSet(Master's degree (e.g., MA, MS, MEng, Med, MSW, MBA)) THEN "DEDUC" SHALL = "8" ELSE "DEDUC" SHALL = "9"

C170-[DE-1.05-x] "GNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the First Name part of 1.05 - Person Name

C170-[DE-1.05-x] "MNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Middle Name part of part of 1.05 - Person Name

C170-[DE-1.05-x] "LNAME" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Last Name part of part of 1.05 - Person Name

C170-[DE-1.05-x] "SUFF" SHALL be populated using HITSP/C83 Section 2.2.2.1 Personal Information using the Last Name Suffix part of part of 1.05 - Person Name

C170-[DE-1.05-X] "ALIAS" shall be coded using the Alias part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.05 Person Name

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "DRACE1" = 'Y' ELSE if Race NOT NULL THEN DRACE1" = "N" ELSE "DRACE1" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (White) THEN "DRACE2" = 'Y' ELSE if Race NOT NULL THEN DRACE2" = "N" ELSE "DRACE2" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "DRACE3" = 'Y' ELSE if Race NOT NULL THEN DRACE3" = "N" ELSE "DRACE3" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Asian Indian) THEN "DRACE4" = 'Y' ELSE if Race NOT NULL THEN DRACE4" = "N" ELSE "DRACE4" = 'U'



C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Chinese) THEN "DRACE5" = 'Y' ELSE if Race NOT NULL THEN DRACE5" = "N" ELSE "DRACE5" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Filipino) THEN "DRACE6" = 'Y' ELSE if Race NOT NULL THEN DRACE6" = "N" ELSE "DRACE6" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Japanese) THEN "DRACE7" = 'Y' ELSE if Race NOT NULL THEN DRACE7" = "N" ELSE "DRACE7" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Korean) THEN "DRACE8" = 'Y' ELSE if Race NOT NULL THEN DRACE8" = "N" ELSE "DRACE8" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Vietnamese) THEN "DRACE9" = 'Y' ELSE if Race NOT NULL THEN DRACE9" = "N" ELSE "DRACE9" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "DRACE10" = 'Y' ELSE if Race NOT NULL THEN DRACE10" = "N" ELSE "DRACE10" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Native Hawaiian) THEN "DRACE11" = 'Y' ELSE if Race NOT NULL THEN DRACE11" = "N" ELSE "DRACE11" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Guamanian or Chamorro) THEN "DRACE12" = 'Y' ELSE if Race NOT NULL THEN DRACE12" = "N" ELSE "DRACE12" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Samoan) THEN "DRACE13" = 'Y' ELSE if Race NOT NULL THEN DRACE13" = "N" ELSE "DRACE13" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Pacific Islander) THEN "DRACE14" = 'Y' ELSE if Race NOT NULL THEN DRACE14" = "N" ELSE "DRACE14" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "DRACE15" = 'Y' ELSE if Race NOT NULL THEN DRACE15" = "N" ELSE "DRACE15" = 'U'

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "DRACE16" SHALL = 18.09- Family Member Race

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (American Indian or Alaska Native) THEN "DRACE17" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (American Indian or Alaska Native)

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "DRACE18" SHALL = 18.09- Family Member Race

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Asian) THEN "DRACE19" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Asian)

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "DRACE22" SHALL = 18.09- Family Member Race

C170-[DE-18-x] IF (18.04 Family Member Relationship) = ValueSet (Father) AND Family Member Race CONTAINS ValueSet (Other Race) THEN "DRACE23" SHALL = Second instance of 18.09- Family Member Race WHERE Family Member Race CONTAINS ValueSet (Other Race)



C170-[DE-1.03-1] "UNUM" SHALL be populated as specified in HITSP/C83 Section 2.2.2.1 Personal Information using the Apartment Number part of 1.03 Person Address.

C170-[DE-1.03-2] "CITY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the City part of 1.03 Person Address.

C170-[DE-1.03-4] "COUNTY" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the County part of 1.03 Person Address.

C170-[DE-1.03-X] "STNUM" shall be coded using the Number part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address

C170-[DE-1.03-X] "PREDIR" shall be coded using the Pre-directional part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address

C170-[DE-1.03-X] "STNAME" shall be coded using the Street part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address

C170-[DE-1.03-X] "STDESIG" shall be coded using the Street designator part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address

C170-[DE-1.03-X] "POSTDIR" shall be coded using the Post-directional part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.03 Person Address

C170-[DE-1.03-4] "STATE" SHALL be populated using HITSP/C83 Section 2.1.2.1 Personal Information using the State part of 1.03 Person Address.

C170-[DE-1.03-X] "SEX" shall be coded using the state part of HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.06 Gender

C170-[DE-1.02-2] "SSN" SHALL be populated using Section 2.2.2.1 Personal Information using 1.02 Person ID Where Person ID represents the Decedent's Social Security Number

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Social History Occupation) THEN "OCCUP" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value using ValueSet(Occupations)

C170-[DE-18-10] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FGNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the First Name part of 18.07 - Family Member Name

C170-[DE-18-11] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FMNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Middle Name part of 18.07 - Family Member Name

C170-[DE-18-13] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FLNAME" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name part of 18.07 - Family Member Name

C170-[DE-18-14] IF (18.04 Family Member Relationship) = ValueSet (Father) THEN "FSUFF" SHALL be populated using HITSP/C83 Section 2.2.2.18 Family History using the Last Name Suffix part of 18.07 - Family Member Name

C170-[DE-9.01-X] PENDING ALIGNMENT OF 9.01 Pregnancy with VR Classifications : IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 Pregnancy CONTAINS ValueSet (Not pregnant within the past year) THEN "PREG" SHALL = 1 ELSE IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 Pregnancy CONTAINS ValueSet (Pregnant at the time of death) THEN "PREG" SHALL = 2 ELSE IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 Pregnancy CONTAINS ValueSet (Not pregnant, but pregnant within 42 days of death) THEN "PREG" SHALL = 3 ELSE IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 Pregnancy CONTAINS ValueSet (Not pregnant, but pregnant 43 days to 1 year before death) THEN "PREG" SHALL = 4 ELSE IF HITSP/C83 Section 2.2.2.9 Pregnancy 9.01 NOT NULL THEN "PREG" SHALL = 8 ELSE "PREG" SHALL = 9

C170-[DE-19.02-X] IF (19.02 Social History Type = ValueSet (Social History Industry) THEN "INDUST" SHALL be populated using HITSP/C83 Section 2.1.2.18 Social History, Data Element 19.04 Social History Observed Value using ValueSet(Industry)

C170-[DE-1.08-X] IF 1.08 Marital Status CONTAINS ValueSet(Married) THEN "MARITAL" SHALL = 'M' ELSE IF Marital Status CONTAINS ValueSet(Married but separated) THEN "MARITAL" SHALL = 'A' ELSE IF Marital Status CONTAINS ValueSet(Widowed) THEN "MARITAL" SHALL = 'W' ELSE IF Marital Status CONTAINS ValueSet(Divorced) THEN "MARITAL" SHALL = 'D' ELSE IF Marital Status CONTAINS ValueSet(Never married) THEN "MARITAL"



SHALL = 'S' ELSE IF Marital Status CONTAINS ValueSet(Not obtainable) THEN
"MARITAL" SHALL = 'N' ELSE MARITAL" SHALL = 'U'

C170-[DE-1.03-X] "MFNAME", "MMNAME", "MLNAME", "MLNSUFF" Component shall be coded using
HITSP/C83 Section 2.1.2.1 Personal Information, Data Element 1.12 Mother's Maiden
Name

C170-[DE-X.XX-X] IF X.XX Place of Death CONTAINS ValueSet(Place of Death) THEN "DPLACE" SHALL = '1'
ELSE IF Place of Death CONTAINS ValueSet(Emergency room/Outpatient) THEN
"DPLACE" SHALL = '2' ELSE IF Place of Death CONTAINS ValueSet(Dead on arrival)
THEN "DPLACE" SHALL = '3' ELSE IF Place of Death CONTAINS ValueSet(Decedent's
home) THEN "DPLACE" SHALL = '4' ELSE IF Place of Death CONTAINS
ValueSet(Hospice facility) THEN "DPLACE" SHALL = '5' ELSE IF Place of Death
CONTAINS ValueSet(Nursing home/Long term care facility) THEN "DPLACE" SHALL = '6'
ELSE IF Place of Death CONTAINS ValueSet(Other) THEN "DPLACE" SHALL = '7'
ELSE IF "DPLACE" SHALL = '9'



4.0 DOCUMENT UPDATES

4.1 JANUARY 31, 2010

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

