

# HITSP Clinical Document and Message Terminology Component

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HITSP/C80



Healthcare Information Technology Standards Panel

*Submitted to:*

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*Submitted by:*

**Care Management and Health Records Domain Technical Committee**



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**Note to Reviewers:** This document serves as a catalog of data element-related information; as such it is subject to frequent and regular updates. To facilitate the review of this document, **the changes specific to each published version will be highlighted within the document.** A reviewer may review the entire document, but note that special emphasis is placed on the review of proposed changes and new items. All submitted comments must reference the specific version of the document being reviewed for proper resolution.



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## 1.0 INTRODUCTION

### 1.1 OVERVIEW

The purpose of the Health Information Technology Standards Panel (HITSP) Clinical Document and Message Terminology Component is to define the vocabulary for either document-based or message-based HITSP constructs such as Clinical Document Architecture (CDA) documents, HL7 V2 messages, etc. For more in-depth information about how this Component relates to other HITSP constructs, see HITSP/TN901 Clinical Documents.

### 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
<a href="#">HITSP Acronyms List</a>	Lists and defines the acronyms used in this document
<a href="#">HITSP Glossary</a>	Provides definitions for relevant terms used by HITSP documents
<a href="#">TN901 – Clinical Documents</a>	TN901 is a reference document that provides the overall context for use of the HITSP Care Management and Health Records constructs
<a href="#">TN903 – Data Architecture</a>	TN903 is a reference document that provides the overall context for use of the HITSP Data Architecture constructs

### 1.4 CONFORMANCE

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

#### 1.4.1 CONFORMANCE CRITERIA

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





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

#### 1.4.2 CONFORMANCE SCOPING, SUBSETTING AND OPTIONS

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



## 2.0 COMPONENT DEFINITION

### 2.1 CONTEXT OVERVIEW

This Component defines the vocabularies and terminologies utilized by HITSP specifications for Clinical Documents and Messages used to support the interoperable transmission of information. It defines vocabularies that have been constrained by other HITSP constructs and does not define all the vocabulary choices made by the various SDO Implementation Guides, profiles, etc. HITSP may, however, state further constraints to limit optionality; these constraints may be stated in other HITSP Constructs. For this reason, HITSP/C80 Clinical Document and Message Terminology do not stand on its own and its use is always enabled by other HITSP constructs, most notably HITSP/C83 CDA Content Modules.

Each of the subsections below group collections of related value sets, and subsections beneath those groups define the value sets in detail. A value set will first include a definition of the "Concept Domain" to which it belongs. These definitions are drawn from authoritative sources, typically the source of the terminology or vocabulary.

Some value sets defined below will be drawn from different terminologies depending upon the context in which they are used (e.g., an HL7 Version 2 message vs. a CDA Document).

#### 2.1.1 VALUE SET METADATA

The value sets in this document are defined in a table as shown below.

**Table 2-1 Value Set Metadata**

Element	Description
Identifier	This is the unique identifier of the value set
Name	This is the name of the Value Set
Source	This is the source of the value set, identifying the originator or publisher of the information
URL	A URL referencing the value set members or its definition at the time of publication
Purpose	Brief description about the general purpose of value set
Definition	A text definition formally describing how concepts in the value set are (intensional) or were (extensional) selected
Version	This row contains a string identifying, where necessary, the specific version of the value set
Type	Extensional (Enumerated) or Intensional (Criteria-based)
Binding	Static or Dynamic
Status	Active (Current) or Inactive (Retired)
Effective Date	The date when the value set is expected to be effective
Expiration Date	The date when the value set is no longer expected to be used
Creation Date	The date of creation of the value set
Revision Date	The date of revision of the value set
Code System Source	This row identifies the source for the code system
Code System Name	This row provides the name of the code system associated with the value set

Additional metadata describing the value set may be present in metadata registries, showing for example, the relationships between different value sets. Below are more detailed descriptions of the Value Set Metadata.

##### 2.1.1.1 VALUE SET IDENTIFIER

This is an OID that uniquely identifies the value set. All OIDs for value sets used within HITSP specifications will be registered with the HL7 OID Registry at <http://www.hl7.org/oid/index.cfm>.



#### 2.1.1.2 VALUE SET NAME

The value set name is a short descriptive name for the value set. The name given is the name used by the originator of the value set.

#### 2.1.1.3 VALUE SET SOURCE

An informative reference to the source of the value set is always included. The originator of a value set and the publisher of it may be different organizations. The source reported in this metadata is an authoritative source, and may contain either of these organizations.

HITSP often creates value sets based upon external vocabularies. When this occurs the Value Set Source is identified as "HITSP". The details of the HITSP value set is described in Value Set Definition.

#### 2.1.1.4 VALUE SET URL

Each value set will include a link to an online resource where the content of the value set is available. Implementers should carefully verify on-line content against original specifications.

#### 2.1.1.5 VALUE SET PURPOSE

The purpose of the value set will be included. This should explain the reason for use of the collection of concepts in the value set.

The purpose of the value set should be clinically descriptive, to allow for value sets to be reused in different contexts. For example: This value set may be used to help identify patients that have recently been under anesthesia. If the purpose above had simply indicated that the value set is intended for use with the Measure Name quality measure, the value set could not readily be reused. One would first need to understand how and why that value set was used in the measure.

#### 2.1.1.6 VALUE SET DEFINITION

The value set definition gives the algorithm by which an Intensional Value Set is or can be constructed, or the mechanism by which an Extensional Value Set was created. Presently there is no identified standard for the expression of the contents of a value set. Until one can be identified these definitions will be text descriptions. The definition of an intensional value set should be specific enough to compute the members of the value set.

An example intensional definition follows: All direct children of "394658006 clinical specialty", plus direct children of "394814009 general practice" and "394733009 medical specialty", excluding those concepts whose children are included, and excluding "394802001 general medicine" (which is redundant with "general medical practice").

An example extensional definition follows: The value set for laboratory results listed below was constructed by enumerating all LOINC® codes used in the HEDIS measures for laboratory results and those LOINC® codes published by the Council of State and Territorial Epidemiologists (CSTE) to identify laboratory results used for reportable and notifiable conditions.

Some value sets may be defined as being a subset or superset of other value sets. These relationships will be specified in the value set definition. For example, if the HEDIS and CSTE lists of LOINC® codes are available as separate values sets, the example given for laboratory results above could have been stated intensionally as: The value set of for laboratory result codes is the union of the value sets for HEDIS Laboratory Results (OID: 2.16...) and the CSTE Value Set for reportable and notifiable conditions (OID: 2.16...).



#### 2.1.1.7 VALUE SET VERSION

This attribute will record the version number of the value set using the format specified by the originator of the value set. If no version number is identified by the originator, HITSP assigns a version number using the publication date associated with the value set, in the form YYYYMMDD.

#### 2.1.1.8 VALUE SET TYPE

This attribute will record whether the value set is intensional or enumerated.

#### 2.1.1.9 VALUE SET BINDING

This attribute will record whether the value set is bound to data elements statically or dynamically. A statically bound value set has its values fixed until a new version of the value set is released. Extensional Value Sets are typically statically bound. A dynamically bound value set has its definitions fixed, but the values in the set may vary as new versions of the code system upon which they are based are released. Intensional values sets are often dynamically bound. When statically bound, an intensional value set must specify the version of the code system being used before the members of the value set can be computed.

#### 2.1.1.10 VALUE SET STATUS

This attribute records the current status of the value set. An active value set is one that can be used within an exchange. An inactive value set should not be used in an exchange, as it has been retired from use. It may no longer be actively maintained, be replaced by another value set, or simply be no longer needed in the exchange.

#### 2.1.1.11 VALUE SET EFFECTIVE DATE AND VALUE SET EXPIRATION DATE

Some value sets are updated on a routine cycle. These value sets will have an effective and expiration date describing when the value set should be used. For example, value sets based on ICD-9 CM could be updated between July and September to make the implementers ready for the next fiscal year starting on October 1<sup>st</sup>.

#### 2.1.1.12 VALUE SET CREATION DATE AND VALUE SET REVISION DATE

HITSP managed value sets record the date of their creation and revision. For HITSP managed value sets, the Creation Date is the date of first publication of the value set in a panel-approved specification. This information need not be recorded in HITSP publications for value sets managed by external organizations, as the information may not be available.

### 2.1.2 CODE SYSTEM METADATA

A value set may contain codes from one or more code systems. Each code system used by the value set is described in the dependencies table found within this specification. That table contains the metadata identified below.

**Table 2-2 Code System Metadata**

Element	Description
Source	This row identifies the source for the code system
Name	This row provides the name of the code system associated with the value set
URL	This row identifies the URL for the code system
Identifier	This is the identifier for a code system from which the value set is drawn
Version	This row contains a string identifying, where necessary, the specific version of the code system used
HL7 Identifier	The identifier used to identify this code system in HL7 Version 2.X messages



Additional metadata describing the value set may be present in metadata registries, providing for example, links to places where the code system may be downloaded. Below are more detailed descriptions of the Code System Metadata.

#### 2.1.2.1 CODE SYSTEM SOURCE

An informative reference to the source of the code system is always included. The originator of a code system and the publisher of it may be different organizations (e.g., for SNOMED CT®, the originator is the IHTSDO, but in the U.S., it is also published by the National Library of Medicine). The source reported in this metadata is an authoritative source, and may contain either of these organizations.

#### 2.1.2.2 CODE SYSTEM NAME

This is the official name of the code system as determined by its source.

#### 2.1.2.3 CODE SYSTEM URL

When the code system is available online, we will include a link to that online resource. When it is not available online, we will include a link to information about where the code system may be obtained.

#### 2.1.2.4 CODE SYSTEM IDENTIFIER

The Code System Identifier is an OID that uniquely identifies the code system. All OIDs used in HITSP specifications are registered in the HL7 OID Registry at <http://www.hl7.org/oid/index.cfm>.

#### 2.1.2.5 CODE SYSTEM VERSION

This attribute will record the version number of the code system using the format specified by the originator of the code system. If no version number is identified by the originator, HITSP assigns a version number using the publication date associated with the code system, in the form YYYYMMDD.

#### 2.1.2.6 CODE SYSTEM HL7 IDENTIFIER

HL7 Version 2 does not use object identifiers to uniquely identify a code system. It uses the name of the coding system instead. The names of coding systems for HL7 messages have been specified in Table 0396 of the HL7 Version 2 standard. To facilitate use of the various code systems, HITSP identifies the appropriate code system name established in this table.

### 2.1.3 VALUE SET MEMBER METADATA

As a point of convenience for implementers and where space and policies permit, value sets are included within this specification. Even when values sets appear, developers should consult an authoritative source for the current version of the value set.

Value sets are published in this specification under the following conditions:

- The value set is small and stable, or cannot be readily obtained from a source other than HITSP
- Permission can be obtained to publish the values in the value set, or HITSP is the originator of it

Value sets that are published within this specification are reproduced in a table following their definition. The attributes of the value set members are illustrated below.



**Table 2-3 Value Set Member Metadata**

Concept Code	Concept Name	Code System Identifier	Code System Name	Definition	Usage Note
The code from the code system	The name of the concept from the code system	The OID identifying the code system	The name of the code system	A narrative definition of the concept	Usage notes for the concept

Additional metadata may be associated with values sets in metadata registries, including information such as keywords associated with the value set, or a description of the changes made to it in a given version. Below are more detailed descriptions of the Value Set Member Metadata.

#### 2.1.3.1 CONCEPT CODE

This is the code used to uniquely identify the concept.

#### 2.1.3.2 CONCEPT NAME

The concept name is the preferred name of the concept as published by the originator of the value set. Some code systems provide more than one name for a concept. In these cases, HITSP identifies the best name to use when the standard has not identified a preferred name. HITSP uses the LOINC® Short Name as the concept name for codes coming from the LOINC® code system, and the fully specified preferred name as the concept name for codes coming from the SNOMED CT® code system.

#### 2.1.3.3 CODE SYSTEM IDENTIFIER AND CODE SYSTEM NAME

There may be times when a selected value set will contain concepts from more than one code system. When this occurs, the code system identifier and name will also be listed for each concept, to ensure that users know the source of each concept in the value set. These columns may be omitted when the value set definition clearly identifies that the value set comes from only one code system. The Code System Identifier and Code System Name are the same values using the Code System Metadata table published by within this specification.

#### 2.1.3.4 DEFINITION

As an aid to implementers, HITSP provides the definition of the concept from the code system when it is available, or clearly indicate that the definition is not available. This will facilitate correct use of the concepts within the value set.

#### 2.1.3.5 USAGE NOTE

Occasionally HITSP may need to describe how each concept is to be used. These appear in the Usage Note column. This column may be omitted if it is not necessary.

#### 2.1.4 VALUE SET VERSIONING

The process for managing HITSP value sets draws from that adopted by HL7.

*[Begin HL7 Version Set Versioning Process [adapted from HL7 Version 3 Core Principals]*

The definition of a value set can change over time. New identifiers may be added to or removed from a value set definition, and the rules used to construct the set may change. When a value set definition changes, it should be done in a way that ensures both the old and new versions are available for comparison.

There are multiple strategies for tracking value set versions. Two of the most common are:

1. To increment the version number each time a change is made to the value set



2. To track modification dates for each change to the value set

*[End HL7 Version Set Versioning Process [adapted from HL7 Version 3 Core Principals]*

HITSP managed value set versions are determined by the approval date. This is date the panel-approved publication in which it is released, and not by available date (the date the value set version was made available within an HITSP) or by a version number. This policy has the following implications:

1. For enumerated value sets maintained by HITSP, the activation date and deactivation date for individual codes in the value set must be maintained as part of the value set metadata
2. For intensionally defined value sets in HITSP managed value sets, the activation date and superseded date must be recorded (tracked) each time the logic of the definition is changed
3. For externally maintained terminologies that have named or numbered releases, a table must be maintained that shows the modification dates for the named or numbered releases

For externally maintained terminologies that maintain modification dates for each individual code change, no additional information is needed.

#### 2.1.5 COMPONENT CONSTRAINTS

This Component must be used in the context of an Interoperability Specification or another HITSP construct and should never be referred to alone.

#### 2.1.6 COMPONENT DEPENDENCIES

This specification depends upon the code systems described in the tables below for the codes used in the value sets defined in Section 2.2 Rules For Implementing Value Sets. The tables below supply information about the source of the code system (the publisher or distributor of it), its name, a brief description, a URL if available, and other metadata used by IT systems to manage and deploy the code systems and value sets identified within this specification.

**Table 2-4 Code System(s) from American Medical Association**

Element	Description
Code System Source	American Medical Association (AMA)
Code System Name	Current Procedural Terminology (CPT®) Fourth Edition (CPT-4)
Code System Description	A uniform coding system used primarily to identify medical services and procedures furnished by physicians and other healthcare professionals. For more information visit <a href="http://www.ama-assn.org">www.ama-assn.org</a>
Code System Identifier	2.16.840.1.113883.6.12
Code System URL	<a href="https://catalog.ama-assn.org/Catalog/cpt/cpt_home.jsp">https://catalog.ama-assn.org/Catalog/cpt/cpt_home.jsp</a>
Code System HL7 Identifier	C4
Code System Version	2009





**Table 2-5 Code System(s) from Accredited Standards Committee X12**

Element	Description
Code System Source	Accredited Standards Committee (ASC) X12
Code System Name	Accredited Standards Committee (ASC) X12 Standards Release 004010
Code System Description	Release (version) 004010 of the Accredited Standards Committee (ASC) X12 standards including the X12.5 Interchange Control, X12.6 Application Control Structure, 270 Eligibility, Coverage or Benefit Inquiry, 271 Eligibility, Coverage or Benefit Information and other control standards for the uniform electronic interchange of business transactions. Published by the Data Interchange Standards Association (DISA). For more information visit <a href="http://www.x12.org">www.x12.org</a>
Code System Identifier	2.16.840.1.113883.6.255.1336
Code System URL	<a href="http://www.x12.org/">http://www.x12.org/</a>
Code System HL7 Identifier	X12DE1336
Code System Version	004010

**Table 2-6 Code System(s) from Centers for Disease Control and Prevention**

Element	Description
Code System Source	Centers for Disease Control and Prevention
Code System Name	Race and Ethnicity Code Sets
Code System Description	The U.S. Centers for Disease Control and Prevention (CDC) has prepared a code set for use in coding race and ethnicity data. This code set is based on current federal standards for classifying data on race and ethnicity, specifically the minimum race and ethnicity categories defined by the U.S. Office of Management and Budget (OMB) and a more detailed set of race and ethnicity categories maintained by the U.S. Bureau of the Census (BC). The main purpose of the code set is to facilitate use of federal standards for classifying data on race and ethnicity when these data are exchanged, stored, retrieved, or analyzed in electronic form. At the same time, the code set can be applied to paper-based record systems to the extent that these systems are used to collect, maintain, and report data on race and ethnicity in accordance with current federal standards. For more information visit <a href="http://www.cdc.gov">www.cdc.gov</a>
Code System Identifier	2.16.840.1.113883.6.238
Code System URL	<a href="http://phinivads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883.6.238&amp;code=2133-7">http://phinivads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883.6.238&amp;code=2133-7</a>
Code System HL7 Identifier	CDCREC
Code System Version	20070424

**Table 2-7 Code System(s) from Centers for Disease Control and Prevention**

Element	Description
Code System Source	Centers for Disease Control and Prevention (CDC)
Code System Name	Codes for Vaccine Administered (CVX code)
Code System Description	The CDC's National Center of Immunization and Respiratory Diseases (NCIRD) maintains the HL7 external code set CVX. The implementation of the HL7 standard for immunization data exchange is described in Chapter 4 of the HL7 standard. The codes in HL7 Version 2.3 table 0292, represented the initial content of the external CVX code set. Since vaccines have to be added to this table more quickly than new versions of HL7 are released, this document represents the most up-to-date version of the CVX code set. Items have been added. Others have been added for planning purposes, pending FDA approval. For more information visit <a href="http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm">http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm</a>
Code System Identifier	2.16.840.1.113883.6.59
Code System URL	<a href="http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm">http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm</a>
Code System HL7 Identifier	CVX
Code System Version	20080725



**Table 2-8 Code System(s) from Centers for Disease Control and Prevention**

Element	Description
Code System Name	Centers for Disease Control and Prevention (CDC)
Code System Source	Manufacturers of Vaccines (MVX)
Code System Description	The CDC's National Center for Immunization and Respiratory Diseases (NCIRD) maintains the HL7 external code set MVX. The implementation of the HL7 standard for immunization data exchange is described in Chapter 4 of the HL7 standard. The codes in HL7 Version 2.3 table 0227 represent the initial content of the external MVX code set. This document represents the most up-to-date version of the MVX code set. For more information visit <a href="http://www.cdc.gov/vaccines/programs/iis/stds/mvx.htm">http://www.cdc.gov/vaccines/programs/iis/stds/mvx.htm</a>
Code System Identifier	2.16.840.1.113883.6.60
Code System URL	<a href="http://www.cdc.gov/vaccines/programs/iis/stds/mvx.htm">http://www.cdc.gov/vaccines/programs/iis/stds/mvx.htm</a>
Code System HL7 Identifier	MVX
Code System Version	20090501

**Table 2-9 Code System(s) from Centers for Disease Control and Prevention**

Element	Description
Code System Source	Centers for Disease Control and Prevention
Code System Name	Implementation Guide for Immunizations Data Transaction using Version 2.3.1 of the Health Level Seven (HL7) Standard Protocol. Implementation Guide Version 2.2 June 2006
Code System Description	This Guide is intended for use by immunization registries that want to participate in a strictly-defined record exchange agreement that limits the amount of optionality normally expected when using the HL7 standard. The Guide describes the most frequently used segments in their entirety, while giving a minimum description of segments containing only a few useful fields for registries. The Guide fully describes the fields within the segments used frequently by immunization registries, while the others are omitted in this document. With this limited scope, this Guide can in no way serve as a substitute for a thorough study of the entire set of HL7 specifications for electronic data interchange in healthcare environments. For more information visit <a href="http://www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf">www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf</a>
Code System Version	2.2
Code System URL	<a href="http://www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf">http://www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf</a>

**Table 2-10 Metadata for Code System(s) from Centers for Disease Control and Prevention**

Code System Name	Code System Description	Code System Identifier	Code System HL7 Identifier
Immunization Information Source	A code indicating the source of information for this immunization record.	2.16.840.1.114222.4.5.293	NIP001
Financial Class	A code used to indicate eligibility for the Vaccines For Children (VFC) program; for state or local reimbursement or describing the type of insurance plan (e.g., Medicaid, HMO, self pay, etc.)	2.16.840.1.114222.4.5.301	NIP0064



**Table 2-11 Code System(s) from Federal Information Processing Standards Publication 5-2**

Element	Description
Code System Source	Federal Information Processing Standards Publication 5-2
Code System Name	Codes for the Identification of the States, the District of Columbia and the Outlying Areas of the United States, and Associated Areas Publication # 5-2, May, 1987
Code System Description	A set of two-digit numeric codes and a set of two-letter alphabetic codes for representing the 50 states, the District of Columbia and the outlying areas of the United States, and associated areas. The standard covers all land areas under the sovereignty of the United States, the freely associated states of Federated States of Micronesia and Marshall Islands, and the trust territory of Palau. For more information visit <a href="http://www.itl.nist.gov">www.itl.nist.gov</a>
Code System Identifier	2.16.840.1.113883.6.92
Code System URL	<a href="http://www.itl.nist.gov/fipspubs/fip5-2.htm">http://www.itl.nist.gov/fipspubs/fip5-2.htm</a>
Code System HL7 Identifier	FIPS5_2
Code System Version	19870918

**Table 2-12 Code System(s) from Food and Drug Administration**

Element	Description
Code System Source	Food and Drug Administration (FDA)
Code System Name	National Drug Code (NDC)
Code System Description	Provides drug codes for prescription medicine and insulin products. NDC is managed by the FDA and is part of the Federal Medication Terminologies. For more information visit <a href="http://www.fda.gov/cder/ndc/database/default.htm">www.fda.gov/cder/ndc/database/default.htm</a>
Code System Identifier	2.16.840.1.113883.6.69
Code System URL	<a href="http://www.fda.gov/Drugs/InformationOnDrugs/ucm142454.htm">http://www.fda.gov/Drugs/InformationOnDrugs/ucm142454.htm</a>
Code System HL7 Identifier	NDC
Code System Version	20090528

**Table 2-13 Code System(s) from Food and Drug Administration**

Element	Description
Code System Source	Food and Drug Administration (FDA)
Code System Name	Unique Ingredient Identifier (UNII)
Code System Description	Provides codes developed by FDA to uniquely identify all ingredients used in marketed medications in the United States. Each UNII is assigned based on molecular structure, manufacturing process, or other characteristics. UNII is part of the Federal Medication Terminologies. For more information visit <a href="http://www.fda.gov/oc/datacouncil/SRS.htm">www.fda.gov/oc/datacouncil/SRS.htm</a>
Code System Identifier	2.16.840.1.113883.4.9
Code System URL	<a href="http://www.fda.gov/ForIndustry/DataStandards/SubstanceRegistrationSystem-UniqueIngredientIdentifierUNII/default.htm">http://www.fda.gov/ForIndustry/DataStandards/SubstanceRegistrationSystem-UniqueIngredientIdentifierUNII/default.htm</a>
Code System HL7 Identifier	FDAUNII
Code System Version	20090615



**Table 2-14 Code System(s) from Health Level Seven V2**

Element	Description
Code System Source	Health Level Seven (HL7)
Code System Name	HL7 Messaging Standard Version 2.5.1
Code System Description	The HL7 Messaging Standard Version 2.5.1 is an application protocol for electronic data exchange in healthcare. It and prior versions have widespread use in the U.S. and internationally. Both message formats and value sets/code tables (e.g., diagnosis type, gender, patient class, result status, specimen collection method, abnormal flags, observation result status codes interpretation, timestamp format) are contained in the standard. Of particular focus for HITSP Interoperability Specifications are message formats described in Chapters 2, 3, 4, 5, and 7 including patient demographic (ADT), and lab result reporting. These are also used within composite standards from IHE for Patient Identity Cross-Referencing and Feed (PIX), Patient Demographics Query (PDQ) and Acknowledgements. They are also used in HL7 order messages. For more information visit <a href="http://www.hl7.org">www.hl7.org</a>
Code System URL	<a href="http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip">http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip</a>
Code System Version	2.5.1

**Table 2-15 Metadata for Code System(s) for Health Level Seven V2**

Code System Name	Code System Description	Code System Identifier	Code System HL7 Identifier
Abnormal Flags	The normalcy status of the result	2.16.840.1.113883.12.78	HL70078
Diagnosis Type	The type of diagnosis	2.16.840.1.113883.12.52	HL70052
Diagnosis Priority	The number that identifies the significance or priority of the diagnosis code	2.16.840.1.113883.12.359	HL70359
Result Status	The status of results for an order	2.16.840.1.113883.12.123	HL70123
Route of Administration	A code for the route of administration.	2.16.840.1.113883.12.162	HL70162
Patient Class	A code to categorize patients by site	2.16.840.1.113883.12.4	HL70004
Provider Role	The functional involvement of the provider with the activity	2.16.840.1.113883.12.443	HL70443
Order Control	Identifies the codes that are permitted to be used to change the status of a laboratory order	2.16.840.1.113883.3.88.12.80.69	HL70119
Order Status	Describes the current status of an order	2.16.840.1.113883.3.88.12.80.70	HL7038
Order Priority	Describes the <b>priority</b> of an order	2.16.840.1.113883.3.88.12.80.71	HL70485
Specimen Risk	Identifies any known or suspected specimen hazards, e.g., exceptionally infectious agent or blood from a hepatitis patient	2.16.840.1.113883.3.88.12.489	HL70489
Specimen Collection Method	Describes the procedure or process by which the specimen was collected	2.16.840.1.113883.3.88.12.488	HL70488



Code System Name	Code System Description	Code System Identifier	Code System HL7 Identifier
Order Setting Type Code	Describes the care setting type associated with an order.	2.16.840.1.113883.12.482	HL70482
Specimen Action Code	Identifies the action to be taken with respect to the specimens that accompany or precede an order.	2.16.840.1.113883.12.65	HL0065

**Table 2-16 Code System(s) from Health Level Seven V3**

Element	Description
Code System Source	Health Level Seven (HL7)
Code System Name	Health Level Seven (HL7) Version 3.0 Vocabulary
Code System Description	The HL7 Version 3.0 Messaging Standard is an application protocol for electronic data exchange in healthcare. Version 3.0 is based on a Reference Information Model (RIM); which is used to instantiate various message formats. Value sets/code tables are contained in the standard. For more information visit <a href="http://www.hl7.org">www.hl7.org</a>
Code System URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Code System Version	V3NE08

**Table 2-17 Metadata for Code System(s) from Health Level Seven V3**

Code System Name	Code System Description	Code System Identifier	Code System HL7 Identifier <sup>1</sup>
ActCode	A code specifying the particular kind of Act that the Act-instance represents within its class.	2.16.840.1.113883.5.4	HITSP-CS-4
AdministrativeGenderCode	The gender of a person used for administrative purposes (as opposed to clinical gender)	2.16.840.1.113883.5.1	HITSP-CS-1
ActReason	A set of codes specifying the motivation, cause, or rationale of an Act, when such rationale is not reasonably represented as an ActRelationship of type "has reason" linking to another Act.	2.16.840.1.113883.5.8	HITSP-CS-8
ActStatus	Contains the names (codes) for each of the states in the state-machine of the RIM Act class.	2.16.840.1.113883.5.14	HITSP-CS-14
LanguageAbilityMode	A value representing the method of expression of the language.	2.16.840.1.113883.5.60	HITSP-CS-60
MaritalStatus	The domestic partnership status of a person.	2.16.840.1.113883.5.2	HITSP-CS-2
ObservationInterpretation	A rough qualitative interpretation of the observation, such as "normal", "abnormal", "below normal", "change up", "resistant", "susceptible", etc.	2.16.840.1.113883.5.83	HITSP-CS-83
ReligiousAffiliation	Assignment of spiritual faith affiliation	2.16.840.1.113883.5.1076	HITSP-CS-1076
RoleCode	Specific classification codes for further qualifying RoleClass codes.	2.16.840.1.113883.5.111	HITSP-CS-111
RoleClass	A Role which is an association or relationship between two entities	2.16.840.1.113883.5.110	HITSP-CS-110

<sup>1</sup> HL7 has not established identifiers for these tables and was unable to resolve this issue prior to publication. HITSP recommends the use of the following values in HL7 Version 2 messages until this issue is resolved.



**Table 2-18 Code System(s) from Human Genome Organization**

Element	Description
Code System Source	Human Genome Organization (HUGO) Gene Nomenclature Committee at the European Bioinformatics Institute
Code System Name	Gene Names
Code System Description	For each known human gene, HUGO approves a gene name and symbol (short-form abbreviation). All approved symbols are stored in the HGNC database. Each symbol is unique and HUGO ensures that each gene is only given one approved gene symbol. In preference each symbol maintains parallel construction in different members of a gene family and can also be used in other species, especially the mouse. For more information visit <a href="http://www.genenames.org">www.genenames.org</a>
Code System Identifier	2.16.840.1.113883.6.133
Code System URL	<a href="http://www.genenames.org/">http://www.genenames.org/</a>
Code System HL7 Identifier	HGNC
Code System Version	Unknown

**Table 2-19 Code System(s) from Human Genome Variation Society**

Element	Description
Code System Source	Human Genome Variation Society (HGVS)
Code System Name	Description of Sequence Variants – February, 20, 2008
Code System Description	Discussions regarding the uniform and unequivocal description of sequence variants in DNA and protein sequences (mutations, polymorphisms) were initiated by two papers published in 1993; Beaudet AL & Tsui LC and Beutler E. Current rules (den Dunnen, JT and Antonarakis, SE [2000]) however do not extensively cover all types of variants and the more complex changes. These pages list, based on the last publication, the existing nomenclature recommendations as well as the most recent suggestions. The article den Dunnen JT and Antonarakis SE (2000). Hum.Mutat. 15:7-12 provide more detail explanation. For more information visit <a href="http://www.hgvs.org/mutnomen/recs.html#intro">www.hgvs.org/mutnomen/recs.html#intro</a>
Code System Identifier	Not available at time of production
Code System URL	<a href="http://www.hgvs.org/mutnomen/recs.html#general">http://www.hgvs.org/mutnomen/recs.html#general</a>
Code System HL7 Identifier	HGVS
Code System Version	Unknown

**Table 2-20 Code System(s) from World Health Organization**

Element	Description
Code System Source	World Health Organization
Code System Name	International Classification of Functioning, Disability and Health (ICF)
Code System Description	The International Classification of Functioning, Disability and Health, known more commonly as ICF, are a classification of health and health-related domains. These domains are classified from body, individual and societal perspectives by means of two lists: a list of body functions and structure, and a list of domains of activity and participation. Since an individual's functioning and disability occurs in a context, the ICF also includes a list of environmental factors. See <a href="http://www.who.int/classifications/icf/en/">www.who.int/classifications/icf/en/</a>
Code System Identifier	2.16.840.1.113883.6.254
Code System URL	<a href="http://www.who.int/classifications/icf/en/">http://www.who.int/classifications/icf/en/</a>
Code System HL7 Identifier	Unknown
Code System Version	Unknown



**Table 2-21 Code System(s) from International Health Terminology Standards Development Organization**

Element	Description
Code System Name	International Health Terminology Standards Development Organisation (IHTSDO) Systematized Nomenclature of Medicine Clinical Terms (SNOMED CT®)
Code System Description	SNOMED CT® consists of a technical design, core content architecture, and Core content. SNOMED CT® Core content includes the technical specification of SNOMED CT® and fully integrated multi-specialty clinical content. The Core content also includes a concepts table, description table, relationships table, history table, ICD-9-CM mapping, and Technical Reference Guide. Additionally, SNOMED CT® provides a framework to manage language dialects, clinically relevant subsets, qualifiers and extensions, as well as concepts and terms unique to particular organizations or localities. For more information visit <a href="http://www.ihtsdo.com">www.ihtsdo.com</a>
Code System Identifier	2.16.840.1.113883.6.96
Code System Source	National Library of Medicine – UMLS
Code System URL	<a href="http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html">http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html</a>
Code System HL7 Identifier	SCT
Code System Version	20080731

**Table 2-22 Code System(s) from International Organization for Standardization**

Element	Description
Code System Source	International Organization for Standardization (ISO)
Code System Name	ISO 3166-1 Codes for the representation of names of countries and their subdivisions: Part 1 Countries
Code System Description	The International Standard for country codes. The purpose of ISO 3166 is to establish codes for the representation of names of countries, territories or areas of geographical interest, and their subdivisions. For more information visit <a href="http://www.iso.org">www.iso.org</a>
Code System Identifier	1.0.3166.1
Code System URL	<a href="http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm">http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm</a>
Code System HL7 Identifier	ISO3166_1
Code System Version	Current

**Table 2-23 Code System(s) from Internet Engineering Task Force**

Element	Description
Code System Source	Internet Engineering Task Force (IETF)
Code System Name	Tags for Identifying Languages, "Request for Comment" (RFC) # 4646, September, 2006
Code System Description	This document describes the structure, content, construction, and semantics of language tags for use in cases where it is desirable to indicate the language used in an information object. It also describes how to register values for use in language tags and the creation of user-defined extensions for private interchange. This document, in combination with RFC 4647, replaces RFC 3066, which replaced RFC 1766. For more information visit <a href="http://www.ietf.org/rfc/rfc4646.txt">www.ietf.org/rfc/rfc4646.txt</a>
Code System Identifier	2.16.840.1.113883.6.121
Code System URL	<a href="http://www.ietf.org/rfc/rfc4646.txt">http://www.ietf.org/rfc/rfc4646.txt</a>
Code System HL7 Identifier	Unknown
Code System Version	200609





**Table 2-24 Code System(s) from Regenstrief Institute, Inc**

Element	Description
Code System Source	Regenstrief Institute, Inc
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Description	A database of universal identifiers for laboratory and other clinical observations. The laboratory portion of the LOINC® database contains the usual categories of chemistry, hematology, serology, microbiology (including parasitology and virology), and toxicology; as well as categories for drugs and the cell counts typically reported on a complete blood count or a cerebrospinal fluid cell count. Antibiotic susceptibilities are a separate category. The clinical portion of the LOINC® database includes entries for vital signs, hemodynamics, intake/output, EKG, obstetric ultrasound, cardiac echo, urologic imaging, gastroendoscopic procedures, pulmonary ventilator management, selected survey instruments, and other clinical observations. For more information visit <a href="http://www.loinc.org">www.loinc.org</a>
Code System Identifier	2.16.840.1.113883.6.1
Code System URL	<a href="http://loinc.org">http://loinc.org</a>
Code System HL7 Identifier	LN
Code System Version	2.26

**Table 2-25 Code System(s) from National Center for Biotechnology Information**

Element	Description
Code System Source	National Center for Biotechnology Information (NCBI)
Code System Name	Genetic Reference Sequences
Code System Description	Established in 1988 as a national resource for molecular biology information, NCBI creates public databases, conducts research in computational biology, develops software tools for analyzing genome data, and disseminates biomedical information - all for the better understanding of molecular processes affecting human health and disease. The Entrez Nucleotide database is a collection of sequences from several sources, including GenBank, RefSeq, and PDB. The number of bases in these databases continues to grow at an exponential rate. For more information visit <a href="http://www.ncbi.nlm.nih.gov">www.ncbi.nlm.nih.gov</a>
Code System Identifier	Not available at time of production
Code System URL	<a href="http://www.ncbi.nlm.nih.gov/sites/entrez?db=nuccore">http://www.ncbi.nlm.nih.gov/sites/entrez?db=nuccore</a>
Code System HL7 Identifier	NCBI-NUCLEOTIDE
Code System Version	Build 3.62 or later

**Table 2-26 Code System(s) from National Cancer Institute**

Element	Description
Code System Source	National Cancer Institute
Code System Name	National Cancer Institute (NCI) Thesaurus
Code System Description	The NCI Thesaurus is a reference terminology and biomedical ontology used in a growing number of NCI and other systems. It covers vocabulary for clinical care, translational and basic research, and public information and administrative activities. The NCI Thesaurus provides definitions, synonyms, and other information on nearly 10,000 cancers and related diseases, 8,000 single agents and combination therapies, and a wide range of other topics related to cancer and biomedical research. It is part of the Federal Medication Terminologies. For more information visit <a href="http://www.cancer.gov">www.cancer.gov</a>
Code System Identifier	2.16.840.1.113883.3.26.1.1
Code System URL	<a href="http://ncit.nci.nih.gov/">http://ncit.nci.nih.gov/</a>
Code System HL7 Identifier	Unknown
Code System Version	9.0 or later



**Table 2-27 Code System(s) from National Library of Medicine**

Element	Description
Code System Source	National Library of Medicine (NLM) Unified Medical Language System (UMLS)
Code System Name	RxNorm
Code System Description	Provides standard names for (1) clinical drugs and (2) drug dose forms as administered to a patient. Also provides links from clinical drugs, both branded and generic, to their active ingredients, drug components (active ingredient + strength), and related brand names. Food and Drug Administration (FDA) National Drug Codes (NDCs) for specific drug products and many of the drug vocabularies commonly used in pharmacy management and drug interaction software are additionally linked to RxNorm. RxNorm is a part of the Federal Medication Terminologies. For more information visit <a href="http://www.nlm.nih.gov">www.nlm.nih.gov</a>
Code System Identifier	2.16.840.1.113883.6.88
Code System URL	<a href="http://www.nlm.nih.gov/research/umls/rxnorm/">http://www.nlm.nih.gov/research/umls/rxnorm/</a>
Code System HL7 Identifier	RXNORM
Code System Version	20090601 (RxNorm Full Release Version or later)

**Table 2-28 Code System(s) from National Uniform Billing Committee**

Element	Description
Code System Source	National Uniform Billing Committee (NUBC)
Code System Name	Uniform Bill (UB-04) Current UB Data Specification Manual
Code System URL	<a href="http://www.nubc.org">http://www.nubc.org</a>
Code System Version	2004

**Table 2-29 Metadata for Code System(s) from National Uniform Billing Committee**

Code System Name	Code System Description	Code System Identifier	Code System HL7 Identifier <sup>2</sup>
Patient Discharge Status	A code indicating the discharge status of the patient (discharged to home, short-term care, left against advice, et cetera)		HITSP-FL-17
Source of Admission	A code indicating the source of the admission (e.g., Referral, Transfer, et cetera)		HITSP-FL-15
Type of Admission/Visit	A code indicating the priority of the admission (e.g., Emergency, Urgent, Elective, et cetera)		HITSP-FL-14

<sup>2</sup> HL7 has not established identifiers for these tables and was unable to resolve this issue prior to publication. HITSP recommends the use of the following values in HL7 Version 2 messages until this issue is resolved



**Table 2-30 Code System(s) from National Uniform Claim Committee**

Element	Description
Code System Source	National Uniform Claim Committee (NUCC)
Code System Name	Healthcare Provider Taxonomy
Code System Description	<p>The Health Care Provider Taxonomy code set is an external, nonmedical data code set designed for use in an electronic environment, specifically within the ASC X12N Health Care Transactions. This includes the transactions mandated under HIPAA</p> <p>The Health Care Provider Taxonomy code is a unique alphanumeric code, ten characters in length. The code set is structured into three distinct "Levels" including Provider Type, Classification, and Area of Specialization</p> <p>The National Uniform Claim Committee (NUCC) is presently maintaining the code set. It is used in transactions specified in HIPAA and the National Provider Identifier (NPI) application for enumeration. Effective 2001, the NUCC took over the administration of the code set. Ongoing duties, including processing taxonomy code requests and maintenance of the code set, fall under the NUCC Code Subcommittee</p> <p>For more information visit <a href="http://www.nucc.org/index.php?option=com_content&amp;task=view&amp;id=14&amp;Itemid=40">http://www.nucc.org/index.php?option=com_content&amp;task=view&amp;id=14&amp;Itemid=40</a></p>
Code System Identifier	2.16.840.1.113883.6.101
Code System URL	<a href="http://www.wpc-edi.com/taxonomy">http://www.wpc-edi.com/taxonomy</a>
Code System HL7 Identifier	HCPT
Code System Version	9.0

**Table 2-31 Code System(s) from Regenstrief Institute, Inc.**

Element	Description
Code System Source	Regenstrief Institute, Inc.
Code System Name	Unified Code for Units of Measure (UCUM)
Code System Description	<p>A code system intended to include all units of measures being contemporarily used in international science, engineering, and business. The purpose is to facilitate unambiguous electronic communication of quantities together with their units. The focus is on electronic communication, as opposed to communication between humans. For more information visit <a href="http://www.aurora.regenstrief.org">www.aurora.regenstrief.org</a></p>
Code System Identifier	2.16.840.113883.6.8.
Code System Name	Unified Code for Units of Measure (UCUM)
Code System URL	<a href="http://www.regenstrief.org/medinformatics/ucum">http://www.regenstrief.org/medinformatics/ucum</a>
Code System HL7 Identifier	Unknown
Code System Version	1.7

**Table 2-32 Code System(s) from United States Postal Service**

Element	Description
Code System Source	United States Postal Service (USPS)
Code System Name	Postal Codes
Code System Description	<p>List of United States postal codes (known in various countries as a post code, postcode, or ZIP code) appended to a postal address for the purpose of sorting mail. For more information visit <a href="http://www.usps.com">www.usps.com</a></p>
Code System Identifier	2.16.840.1.113883.6.231
Code System URL	<a href="http://www.usps.com/ncsc/addressinfo/addressinfomenu.htm">http://www.usps.com/ncsc/addressinfo/addressinfomenu.htm</a>
Code System HL7 Identifier	USPS
Code System Version	Current – (Monthly and quarterly updates)



**Table 2-33 Code System(s) from U.S. Veterans Health Administration**

Element	Description
Code System Source	U.S. Veterans Health Administration (VHA)
Code System Name	National Drug File Reference Terminology (NDF-RT) Formulary
Code System Description	Provides standard names for (1) mechanism of action, (2) Physiologic Effect and (3) Structural Class. NDF-RT is part of the Federal Medication Terminologies. For more information visit <a href="http://www.cancer.gov/cancertopics/terminologyresources/page5">www.cancer.gov/cancertopics/terminologyresources/page5</a>
Code System Identifier	2.16.840.1.113883.3.26.1.5
Code System Source	Veterans Health Administration
Code System URL	<a href="http://evs.nci.nih.gov/ftp1/NDF-RT">http://evs.nci.nih.gov/ftp1/NDF-RT</a>
Code System HL7 Identifier	NDFRT
Code System Version	20090310

## 2.2 RULES FOR IMPLEMENTING VALUE SETS

The use of this construct is defined by the Component, Transaction, Transaction Package, Capability or Interoperability Specification that may refer to it.

### 2.2.1 GENERAL INFORMATION VALUE SETS

#### 2.2.1.1 ADDRESS INFORMATION

##### 2.2.1.1.1 State

**Table 2-34 State Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.1
Name	State Value Set
Source	HITSP
Purpose	Address Information
URL	<a href="http://www.itl.nist.gov/fipspubs/fip5-2.htm">http://www.itl.nist.gov/fipspubs/fip5-2.htm</a>
Definition	Identifies addresses within the United States are recorded using the FIPS 5-2 two-letter alphabetic codes for the State, District of Columbia, or an outlying area of the United States or associated area
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Source	Federal Information Processing Standards (FIPS) <sup>3</sup>
Code System Name	Codes for the Identification of the States, the District of Columbia and the Outlying Areas of the United States, and Associated Areas Publication # 5-2, May, 1987

<sup>3</sup> FIPS 5-2 will be superseded by INCITS 38:200X when that specification becomes available. The content of the two are the same, but the maintainer of the code set has been changed.



### 2.2.1.1.2 Postal Code

**Table 2-35 Postal Code Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.2
Name	Postal Code Value Set
Source	HITSP
Purpose	Address Information
URL	<a href="http://zip4.usps.com/zip4/welcome.jsp">http://zip4.usps.com/zip4/welcome.jsp</a>
Definition	This identifies the postal (ZIP) Code of an address in the United States
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Source	United States Postal Service (USPS)
Code System Name	Postal Codes

### 2.2.1.1.3 Country

**Table 2-36 Country Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.63
Name	Country Value Set
Source	HITSP
Purpose	This identifies the codes for the representation of names of countries, territories and areas of geographical interest. <b>Note:</b> This table provides the ISO 3166-1 code elements available in the alpha-2 code of ISO's country code standard.
URL	<a href="http://www.iso.org/iso/iso-3166-1_decoding_table">http://www.iso.org/iso/iso-3166-1_decoding_table</a>
Definition	The complete set of 3166-1 codes
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Source	International Organization for Standardization (ISO)
Code System Name	ISO 3166-1 Codes for the representation of names of countries and their subdivisions: Part 1 Countries



## 2.2.1.2 DEMOGRAPHIC INFORMATION

### 2.2.1.2.1 Administrative Gender

Administrative Gender is the gender of a person used for administrative purposes. Within the HITSP specifications, this data element is used to identify the sex structure of a person, and excludes a detailed clinical description of the person's sex.

The World Health Organization (WHO) provides a differentiation between "sex" and "gender": (see <http://www.who.int/gender/whatisgender/en/index.html>). In their explanation, "sex" refers to the biological and physiological characteristics that define men and women, and "gender" refers to the socially constructed roles, behaviors, activities, and attributes that a given society considers appropriate for men and women.

The terminologies below shall be used when recording the administrative gender of a patient for the purposes of making room assignment decisions, identifying persons, determining applicable benefits, determining appropriateness of a gender-specific procedure or treatment.<sup>4</sup>

**Table 2-37 Administrative Gender Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.1
Name	Administrative Gender Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	Demographic Information
Definition	Administrative Gender See below in Table 2-38 Administrative Gender Value Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary
Code System Name	AdministrativeGender

**Table 2-38 Administrative Gender Value Set Definition**

Concept Code	Concept Name	Definition
F	Female	Female
M	Male	Male
UN	Undifferentiated	The gender of a person could not be uniquely defined as male or female, such as hermaphrodite

### 2.2.1.2.2 Ethnicity

**Cultural** characteristics that connect a particular group or groups of people to each other.

<sup>4</sup> The HITSP Foundations Committee has developed and published a harmonized value set. HITSP member Standards Development Organizations (SDOs) have agreed to support the harmonized value set in future releases of their standards



**Table 2-39 Ethnicity Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.15836
Name	Ethnicity Value Set
Source	Centers for Disease Control and Prevention (CDC)
URL	<a href="http://phinivads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883.6.238&amp;code=2133-7">http://phinivads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883.6.238&amp;code=2133-7</a>
Purpose	Demographic Information
Definition	Ethnicity is always reported at the discretion of the person for whom this attribute is reported, and reporting must be completed according to Federal guidelines for ethnicity reporting. Any code descending from the Ethnicity concept (2133-7) in that code may be used in the exchange
Version	Unknown
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Source	Centers for Disease Control and Prevention
Code System Name	Race and Ethnicity Code Sets

**2.2.1.2.3 Marital Status**

Marital Status is the domestic partnership status of a person<sup>5</sup>.

**Table 2-40 Marital Status Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.12212
Name	Marital Status Value Set
Source	Health Level Seven (HL7) Version 3.0
URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Purpose	Demographic Information
Definition	Marital Status is the domestic partnership status of a person. The Marital Status Vocabulary is reproduced below in Table 2-41 Marital Status Value Set Definition
Version	V3NE08
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	MaritalStatus
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

<sup>5</sup> The HITSP Foundations Committee has developed and published a harmonized value set. HITSP member SDOs have agreed to support the harmonized value set in future releases of their standards





**Table 2-41 Marital Status Value Set Definition**

Concept Code	Concept Name	Definition
A	Annulled	Marriage contract has been declared null and to not have existed
D	Divorced	Marriage contract has been declared dissolved and inactive
I	Interlocutory	Subject to an Interlocutory Decree
L	Legally Separated	Legally separated
M	Married	A current marriage contract is active
P	Polygamous	More than 1 current spouse
S	Never Married	No marriage contract has ever been entered
T	Domestic partner	Person declares that a domestic partner relationship exists
W	Widowed	The spouse has died

**2.2.1.2.4 Personal Relationship****Table 2-42 Personal Relationship Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.19563
Name	Personal Relationship Role Type Value Set
Source	Health Level Seven (HL7) Version 3.0
URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Purpose	Demographic Information
Definition	A Personal Relationship records the role of a person in relation to another person. This value set is to be used when recording the relationships between different people who are not necessarily related by family ties, but also includes family relationships
Version	V3NE08
Type	Intensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Role Code
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

**2.2.1.2.5 Family Relation Type****Table 2-43 Family Relation Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.19579
Name	Family Member Value Set
Source	Health Level Seven (HL7) Version 3.0
URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Purpose	Demographic Information
Definition	Family Relationships record the familial relationship of a person to another person. This value set is to be used when it is necessary to record family relationships (e.g., next of kin, or blood relations). This is a subset of the value set used for personal relationships
Version	V3NE08



Element	Description
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Role Code
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

#### 2.2.1.2.6 Contact Type

**Table 2-44 Contact Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.3.2
Name	Contact Type Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	Demographic Information
Definition	The HL7 Version 3 Role Class Vocabulary has been limited by HITSP to the value set reproduced below in Table 2-45 Contact Type Value Set Definition This represents the type of individual support provided, such as immediate emergency contacts, next of kin, family relations, guardians, agents, et cetera
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	RoleClass
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

**Table 2-45 Contact Type Value Set Definition**

Concept Code	Concept Name	Definition
AGNT	Agent	An entity that acts or is authorized to act on behalf of another entity (scoper)
CAREGIVER	Caregiver	A person responsible for the primary care of a patient at home
ECON	Emergency Contact	An entity to be contacted in the event of an emergency
GUARD	Guardian	Guardian of a ward
NOK	Next of kin	An individual designated for notification as the next of kin for a given entity
PRS	Personal	Links two people in a personal relationship

#### 2.2.1.2.7 Race

A group of persons related by common descent or heredity.



**Table 2-46 Race Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.14914
Name	Race Value Set
Source	Centers for Disease Control and Prevention (CDC)
URL	<a href="http://phinivads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883.6.238&amp;code=1000-9">http://phinivads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883.6.238&amp;code=1000-9</a>
Purpose	Classifying data based upon race
Definition	Race is always reported at the discretion of the person for whom this attribute is reported, and reporting must be completed according to Federal guidelines for race reporting. Any code descending from the Race concept (1000-9) in that terminology may be used in the exchange
Version	Unknown
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	CDC Race and Ethnicity Code Set
Code System Source	Centers for Disease Control & Prevention (CDC)

**2.2.1.2.8 Religious Affiliation****Table 2-47 Religious Affiliation Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.19185
Name	Religious Affiliation Value Set
Source	Health Level Seven (HL7) Version 3.0
URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Purpose	Demographic Information
Definition	This reflects the spiritual faith affiliation
Version	Unknown
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	ReligiousAffiliation
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary



### 2.2.1.2.9 Language

**Table 2-48 Language Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.11526
Name	Language Value Set
Source	The Internet Society
URL	<a href="http://www.ietf.org/rfc/rfc4646.txt">http://www.ietf.org/rfc/rfc4646.txt</a>
Purpose	This identifies the name of a human language.
Definition	The value set is defined by Internet RFC 4646 (replacing RFC 3066). Please see ISO 639 language code set maintained by Library of Congress for enumeration of language codes and Frequently Asked Questions
Version	200609
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Tags for Identifying Languages
Code System Source	The Internet Society

### 2.2.1.2.10 Language Ability Mode

**Table 2-49 Language Ability Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.12249
Name	LanguageAbilityMode Value Set
Source	Health Level Seven (HL7) Version 3.0
URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Definition	This identifies the language ability of the individual. A value representing the method of expression of the language. See Table 2-50 Language Ability Mode Set Definition
Version	V3NE08
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Language Ability Mode
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary



**Table 2-50 Language Ability Mode Set Definition**

Concept Code	Concept Name	Definition
ESGN	Expressed signed	Not Available
ESP	Expressed spoken	Not Available
EWR	Expressed written	Not Available
RSGN	Received signed	Not Available
RSP	Received spoken	Not Available
RWR	Received written	Not Available

## 2.2.2 ADMINISTRATION AND FINANCIAL VALUE SETS

### 2.2.2.1 HEALTH INSURANCE TYPE

The Health Insurance Type Value set is used within CDA-based specifications to identify the types of insurance plans or programs covering a patient's care. This value set is not intended for use in X12N or NCPDP based administrative transactions. The X12N and NCPDP Implementation Guides and current Federal regulations limit the values that may be transmitted in administrative transactions, and these values will not be further limited by HITSP.

**Table 2-51 Health Insurance Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.5.2
Name	Health Insurance Type Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	Identify the types of insurance plans or programs covering a patient's care
Definition	This value set uses the ACS X12 vocabulary for Insurance Type Code (ASC X12 Data Element 1336) and has been limited by HITSP to the value set reproduced below in Table 2-52 Health Insurance Type Value Set Definition The type of health plan covering the individual, e.g., an HMO, PPO, POS, etc.
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Source	Accredited Standards Committee (ASC)
Code System Name	Accredited Standards Committee (ASC) X12 Standards Release 004010

**Table 2-52 Health Insurance Type Value Set Definition**

Concept Code	Concept Name & Definition
12	Medicare Secondary Working Aged Beneficiary or Spouse with Employer Group Health Plan
13	Medicare Secondary End-Stage Renal Disease Beneficiary in the 12 month coordination period with an employer's group health plan
14	Medicare Secondary, No-fault Insurance including Auto is Primary
15	Medicare Secondary Worker's Compensation
16	Medicare Secondary Public Health Service (PHS) or Other Federal Agency
41	Medicare Secondary Black Lung
42	Medicare Secondary Veteran's Administration



Concept Code	Concept Name & Definition
43	Medicare Secondary Disabled Beneficiary Under Age 65 with Large Group Health Plan (LGHP)
47	Medicare Secondary, Other Liability Insurance is Primary
AP	Auto Insurance Policy
C1	Commercial
CO	Consolidated Omnibus Budget Reconciliation Act (COBRA)
CP	Medicare Conditionally Primary
D	Disability
DB	Disability Benefits
EP	Exclusive Provider Organization
FF	Family or Friends
GP	Group Policy
HM	Health Maintenance Organization (HMO)
HN	Health Maintenance Organization (HMO) - Medicare Risk
HS	Special Low Income Medicare Beneficiary
IN	Indemnity
IP	Individual Policy
LC	Long Term Care
LD	Long Term Policy
LI	Life Insurance
LT	Litigation
MA	Medicare Part A
MB	Medicare Part B
MC	Medicaid
MH	Medigap Part A
MI	Medigap Part B
MP	Medicare Primary
OT	Other
PE	Property Insurance - Personal
PL	Personal
PP	Personal Payment (Cash - No Insurance)
PR	Preferred Provider Organization (PPO)
PS	Point of Service (POS)
QM	Qualified Medicare Beneficiary
RP	Property Insurance - Real
SP	Supplemental Policy
TF	Tax Equity Fiscal Responsibility Act (TEFRA)
WC	Workers Compensation
WU	Wrap Up Policy

### 2.2.2.2 SUBSCRIBER RELATIONSHIP

**Table 2-53 Subscriber Relationship Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.18877
Name	Coverage Role Type Value Set
Source	Health Level Seven (HL7) Version 3.0
URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Purpose	Describes the role recognized through the issuance of insurance coverage to an identified covered party who has this relationship with the policy holder such as the policy holder themselves (self), spouse, child, etc.



Element	Description
Definition	The Subscriber Relationship vocabulary is reproduced below in Table 2-54 Subscriber Relationship Value Set Definition This specifies if the patient is the subscriber or dependent within the context of the specified health plan
Version	V3NE08
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	RoleCode
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

**Table 2-54 Subscriber Relationship Value Set Definition**

Concept Code	Concept Name	Definition
FAMDEP	Family dependent	The player of the role is dependent of the scoping entity
HANDIC	Handicapped dependent	Covered party is a dependent of the policy holder with a physical or mental disability causing a disadvantage that makes independent achievement unusually difficult
INJ	Injured plaintiff	Covered party is an injured party with a legal claim for compensation against a policy holder under an insurance policy
SELF	Self	Not Available
SPON	Sponsored dependent	Covered party is an individual that the policy holder has assumed responsibility for, such as foster child or legal ward
STUD	Student	Covered party to an insurance policy has coverage through full-time or part-time attendance at a recognized educational institution as defined by a particular insurance policy
FSTUD	Full-time student	Covered party to an insurance policy has coverage through full-time attendance at a recognized educational institution as defined by a particular insurance policy
PSTUD	Part-time student	Covered party to an insurance policy has coverage through part-time attendance at a recognized educational institution as defined by a particular insurance policy

### 2.2.2.3 FINANCIALLY RESPONSIBLE PARTY TYPE

**Table 2-55 Financially Responsible Party Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.10416
Name	Financially Responsible Party Type Value Set
Source	Health Level Seven (HL7) Version 3.0
URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Purpose	This identifies the party that has responsibility for all or a portion of the patient's healthcare; includes health insurance, the patient directly, a guardian or other guarantor, or other third party that is not a health insurance plan
Definition	See the definition of the RoleClassRelationshipFormal Value Set in the HL7 Version 3.0 Vocabulary for the definition
Version	V3NE08
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A





Element	Description
Creation Date	Unknown
Revision Date	N/A
Code System Name	RoleClass
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

#### 2.2.2.4 SOCIAL HISTORY TYPE

**Table 2-56 Social History Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.60
Name	Social History Type Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This indicates the type of social history observation
Definition	The SNOMED CT® has been limited by HITSP to the value set reproduced below in Table 2-57 Social History Type Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine – UMLS

**Table 2-57 Social History Type Set Definition**

Concept Code	Concept Name (SNOMED Fully Specified Name)	Definition	Usage Note
229819007	Tobacco use and exposure (observable entity)	Not available	Smoking
256235009	Exercise (observable entity)	Not available	Exercise
160573003	Alcohol intake (observable entity)	Not available	ETOH (Alcohol) Use
364393001	Nutritional observable (observable entity)	Not available	Diet
364703007	Employment detail (observable entity)	Not available	Employment
425400000	Toxic exposure status (observable entity)	Not available	Toxic Exposure
363908000	Details of drug misuse behavior (observable entity)	Not available	Drug Use
228272008	Health-related behavior (observable entity)	Not available	Other Social History



## 2.2.3 CARE MANAGEMENT AND HEALTH RECORD VALUE SETS

### 2.2.3.1 PROBLEMS AND DIAGNOSES

#### 2.2.3.1.1 Problem

**Table 2-58 Problem Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.7.4
Name	Problem Value Set
Source	National Library of Medicine – UMLS
URL	Not Available at Publication
Purpose	Problems and Diagnosis
Definition	Describes the problem. The SNOMED CT® has been limited by HITSP to terms descending from the Clinical Findings (404684003) or Situation with Explicit Context (243796009) hierarchies.
Version	20100125
Type	Extensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	20100125
Code System Name	SNOMED CT®
Code System Source	National Library of Medicine – UMLS

#### 2.2.3.1.2 Problem Type

**Table 2-59 Problem Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.7.2
Name	Problem Type Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	Problems and Diagnosis
Definition	The SNOMED CT® has been limited by HITSP to the value set reproduced below in Table 2-60 Problem Type Value Set Definition. This indicates the level of medical judgment used to determine the existence of a problem
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	SNOMED CT®



Element	Description
Code System Source	National Library of Medicine – UMLS

**Table 2-60 Problem Type Value Set Definition**

Concept Code	Concept Name (SNOMED Fully Specified Name)	Definition	Usage Note
404684003	Clinical finding (finding)	Not Available	Finding
418799008	Finding reported by subject or history provider (finding)	Not Available	Symptom
55607006	Problem (finding)	Not Available	Problem
409586006	Complaint (finding)	Not Available	Complaint
64572001	Disease (disorder)	Not Available	Condition
282291009	Diagnosis interpretation (observable entity)	Not Available	Diagnosis
248536006	Finding of functional performance and activity (finding)	Not Available	Functional limitation

### 2.2.3.1.3 Diagnosis Type

**Table 2-61 Diagnosis Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.3
Name	Diagnosis Type Value Set
Source	Health Level Seven (HL7) Version 2.5.1 – HL7 Table 0052 in Appendix A
URL	<a href="http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip">http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip</a>
Purpose	This identifies the type of diagnosis being used
Definition	See HL7 Table 0052 in Appendix A of HL7 2.5.1 as reproduced below in Table 2-62 Diagnosis Type Value Set Definition
Version	2.5.1
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Diagnosis Type
Code System Source	Health Level Seven (HL7) Version 2.5.1

**Table 2-62 Diagnosis Type Value Set Definition**

Concept Code	Concept Name	Definition
A	Admitting	Not Available
F	Final	Not Available
W	Working	Not Available



### 2.2.3.1.4 Diagnosis Priority

**Table 2-63 Diagnosis Priority Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.4
Name	Diagnosis Priority Value Set
Source	Health Level Seven (HL7) Version 2.5.1 – Table 0359 in Appendix A
URL	<a href="http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip">http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip</a>
Purpose	Problems and Diagnosis
Definition	See HL7 v2.5.1 Table 0359 as reproduced below in Table 2-64 Diagnosis Priority Value Set Definition. This indicates the significance or priority of the diagnosis code
Version	2.5.1
Type	Intensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Diagnosis Priority
Code System Source	Health Level Seven (HL7) Version 2.5

**Table 2-64 Diagnosis Priority Value Set Definition**

Concept Code	Concept Name	Definition
0	Not included in diagnosis ranking	Not Available
1	The primary diagnosis	Not Available
2 or more	For ranked secondary diagnoses	Ranks the secondarily diagnoses and could be multiple numbers, 2, 3, 4, etc

### 2.2.3.1.5 Nursing Diagnosis

**Table 2-65 Nursing Diagnosis Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.5
Name	Nursing Diagnosis Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies the nursing diagnosis
Definition	The value set is being drawn from SMOMED CT using the vocabularies created by the Omaha System and Clinical Care Classification. The value set is defined as being those SNOMED CT® codes that appear in mappings from the Omaha System or Clinical Care Classification system published by the College of American Pathologists
Version	Unknown
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration	N/A
Creation Date	Unknown



Element	Description
Revision Date	N/A
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine – UMLS

#### 2.2.3.1.6 Problem Severity

**Table 2-66 Problem Severity Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.6.8
Name	Problem Severity Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This is a description of the level of the severity of the problem.
Definition	The SNOMED CT® has been limited by HITSP to the value set reproduced below in Table 2-67 Problem Severity Value Set Definition. These terms descend from the severities (272141005) concept
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine – UMLS

**Table 2-67 Problem Severity Value Set Definition**

Concept Code	Concept Name (SNOMED Fully Specified Name)	Definition	Usage Note
255604002	Mild (qualifier value)	Not Available	mild
371923003	Mild to moderate (qualifier value)	Not Available	mild to moderate
6736007	Moderate (severity modifier) (qualifier value)	Not Available	moderate
371924009	Moderate to severe (qualifier value)	Not Available	moderate to severe
24484000	Severe (severity modifier) (qualifier value)	Not Available	severe
399166001	Fatal (qualifier value)	Not Available	fatal

#### 2.2.3.1.7 Functional Assessment

**Table 2-68 Functional Assessment Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.61
Name	Functional Assessment Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	Problems and Diagnosis



Element	Description
Definition	The value sets include those concepts in SNOMED CT® used to describe functional status of a patient. When gaps in SNOMED terminologies exist, the International Classification of Functioning, Disability and Health (ICF) may be used <sup>6</sup>
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine – UMLS

### 2.2.3.1.8 Problem Status

The problem status code value set is used to identify the current status of the problem for the patient

**Table 2-69 Problem Status Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.68
Name	Problem Status Code
Source	HITSP
URL	Not Available at Publication
Purpose	Indicate the status of the problem
Definition	Shall contain a SNOMED Code from Table 2-70 Problem Status Value Set Definition below
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine – UMLS

<sup>6</sup> The HL7 Implementation Guide for CDA Release 2: CDA Framework for Questionnaire Assessments, Release 1 contains a list of usefully related SNOMED CT® codes in an informative spreadsheet included with the publication. That publication can be found on the HL7 Draft Standards page here: <http://www.hl7.org/dstucomments/index.cfm>.



**Table 2-70 Problem Status Value Set Definition<sup>7</sup>**

Concept Code	Concept Name	Definition
55561003	Active	The problem is currently active (as of the time reported) – the problem exists and is a current cause for concern
73425007	Inactive	The problem is currently inactive (as of the time reported) – the problem no longer exists as a problem for the patient as of the time of recording (it may reoccur, but that would be a new instance)
413322009	Resolved	The problem has been resolved (as of the time reported) - the problem is one that still exists for the patient but is not currently a cause for concern (e.g., diabetes that is under control)

**2.2.3.2 BODY SITE****2.2.3.2.1 Body Site<sup>8</sup>****Table 2-71 Body Site Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.8.9
Name	Body Site Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	Identify the body site for injury, specimen, injection and finding
Definition	Shall contain a value descending from the SNOMED CT® Anatomical Structure (91723000) hierarchy or Acquired body structure (body structure) (280115004) or Anatomical site notations for tumor staging (body structure) (258331007) or Body structure, altered from its original anatomical structure (morphologic abnormality) (118956008) or Physical anatomical entity (body structure) (91722005) This indicates the anatomical site
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	20100125
Code System Name	SNOMED CT®
Code System Source	National Library of Medicine – UMLS

<sup>7</sup> This value set is limited to support the concepts “Active”, “Inactive” and “Resolved” to fully cover the space of potential problem statuses. A resolved problem no longer exists as a problem for the patient as of the time of recording (it may reoccur, but that would be a new instance). An inactive problem is one that still exists for the patient but is not currently a cause for concern (e.g., diabetes that is under control). An active problem exists and is a current cause for concern

<sup>8</sup> The HITSP Foundations Committee has developed and published a harmonized value set. HITSP member SDOs have agreed to support the harmonized value set in future releases of their standards



### 2.2.3.3 MEDICATIONS

#### 2.2.3.3.1 Medication Fill Status

**Table 2-72 Medication Fill Status Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.64
Name	Medication Fill Status Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	Medication
Definition	The HL7 ActStatus has been limited by HITSP to the value set reproduced below in Table 2-73 Medication Fill Status Value Set Definition This identifies whether the medication has been fulfilled, such as completed and aborted
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Act Status
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

**Table 2-73 Medication Fill Status Value Set Definition**

Concept Code	Concept Name	Definition
completed	Completed	An Act that has terminated normally after all of its constituents have been performed
aborted	Aborted	The Act has been terminated prior to the originally intended completion

#### 2.2.3.3.2 Medication Indication

This is the medical condition or problem intended to be addressed by the ordered medication. For example: for chest pain, for pain, for high blood pressure.

- See 2.2.3.1.1 Problem

#### 2.2.3.3.3 Medication Product Form

**Table 2-74 Medication Product Form Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.8.11
Name	Medication Product Form Value Set
Source	U.S. Food and Drug Administration (FDA)
URL	<a href="http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/ucm162038.htm">http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/ucm162038.htm</a>
Purpose	Medication – Dosage Forms
Definition	This is the physical form of the product as presented to the individual. For example: tablet, capsule, liquid or ointment. NCI concept code for pharmaceutical dosage form: C42636
Version	Unknown
Type	Intensional





Element	Description
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	National Cancer Institute (NCI) Thesaurus
Code System Source	National Cancer Institute (NCI)

#### 2.2.3.3.4 Medication Route

This indicates the method for the medication received by the individual (e.g., by mouth, intravenously, topically, etc).

##### 2.2.3.3.4.1 FDA – Medication Route

**Table 2-75 Medication Route FDA Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.8.7
Name	Medication Route FDA Value Set
Source	U.S. Food and Drug Administration (FDA)
URI	<a href="http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/ucm162034.htm">http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/ucm162034.htm</a>
Purpose	Medication Administration Route
Definition	This indicates the method for the medication received by the individual (e.g., by mouth, intravenously, topically, etc). NCI concept code for route of administration: C38114
Version	Unknown
Type	Extensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	National Cancer Institute (NCI) Thesaurus
Code System Source	National Cancer Institute (NCI)

##### 2.2.3.3.4.2 HL7 V2 – Medication Route

**Table 2-76 V2 Medication Route Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.38
Name	V2 Medication Route Value Set
Source	Health Level Seven (HL7) Version 2.5.1 - See HL7 Table 0162 in Appendix A
URL	<a href="http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip">http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip</a>
Purpose	Medication Administration Route
Definition	This indicates the method for the medication received by the individual (e.g., by mouth, intravenously, topically, etc)
Version	2.5.1



Element	Description
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Route of Administration
Code System Source	Health Level Seven (HL7) Version 2.5.1

#### 2.2.3.3.5 Medication Type

**Table 2-77 Medication Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.8.19
Name	Medication Type Value Set
Source	HITSP
URL	Not Available for Publication
Purpose	This is a classification based on how the medication is marketed (e.g., prescription, over the counter drug)
Definition	The SNOMED CT® has been limited by HITSP to the value set reproduced below in Table 2-78 Medication Type Value Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	SNOMED CT®
Code System Source	National Library of Medicine – UMLS

**Table 2-78 Medication Type Value Set Definition**

Concept Code	Concept Name (SNOMED Fully Specified Name)	Definition	Usage Note
329505003	Over the counter products (product)	Not Available	Over the counter products
73639000	Prescription drug (product)	Not Available	Prescription Drug

#### 2.2.3.3.6 Medication Site

This is the anatomic site where the medication is administered.

- See 2.2.3.1.8 Body Site

#### 2.2.3.3.7 Medication Brand Name

This identifies the product brand name of drugs, such as Tylenol, Claritin, etc.



**Table 2-79 Medication Brand Name Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.16
Name	Medication Brand Name Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies the product brand name of drugs, such as Tylenol, Claritin, etc.
Definition	Shall contain RxNorm normal forms for concepts type of "Brand Name" or Brand Name Packs. The Brand name concepts can be found in the RxNORM file RXCONSO.RRF selecting all terms where SAB=RXNORM (selecting the normal forms), and TTY=BN (selecting the brand names) or TTY=BPCK (selecting the brand name packs) Note: The definition will be changed to be consistent with vocabularies selected by Federal regulation on Meaningful Use. This change will be completed when that regulation has been published
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20100125
Expiration Date	N/A
Creation Date	20081218
Revision Date	20100125
Code System Name	RxNorm
Code System Source	National Library of Medicine - RxNorm

**2.2.3.3.8 Medication Clinical Drug Name****Table 2-80 Medication Clinical Drug Name Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.17
Name	Medication Clinical Drug Name Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	Medication Clinical Drug Name
Definition	Shall contain RxNorm normal forms for concepts type of "Ingredient Name" or Generic Packs. The ingredient name concepts can be found in the RxNORM file RXCONSO.RRF selecting all terms where SAB=RXNORM (selecting the normal forms), and TTY=SCD (selecting the ingredient names) or TTY=GPCK (selecting the generic packs) Note: The definition will be changed to be consistent with vocabularies selected by Federal regulation on Meaningful use. This change will be completed when that regulation has been published
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20100125
Expiration Date	N/A
Creation Date	20081218
Revision Date	20100125
Code System Name	RxNorm
Code System Source	National Library of Medicine - RxNorm



### 2.2.3.3.9 Medication Drug Class

**Table 2-81 Medication Drug Class Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.17
Name	Medication Drug Class Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies the pharmacological drug class, such as Cephalosporins
Definition	Shall contain a value descending from the NDF-RT concept types of "Mechanism of Action - N0000000223", "Physiologic Effect - N0000009802" or "Chemical Structure - N0000000002". NUI will be used as the concept code. For more information, please see the Web Site <a href="http://www.cancer.gov/cancertopics/terminologyresources/page5">http://www.cancer.gov/cancertopics/terminologyresources/page5</a>
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	National Drug File – Reference Terminology (NDF-RT)
Code System Source	U.S. Veterans Health Administration (VHA)

### 2.2.3.3.10 Medication Packaged Product

**Table 2-82 Medication Packaged Product Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.19
Name	Medication Packaged Product Value Set
Source	U.S. Food and Drug Administration (FDA)
URL	<a href="http://www.fda.gov/cder/ndc/database/default.htm">http://www.fda.gov/cder/ndc/database/default.htm</a>
Purpose	This identifies the labeler, product, and trade package size, such as Tylenol 325 mg tablet bottle of 100
Definition	Shall contain a value from NDC. Each listed drug product listed is assigned a unique 10-digit, 3-segment number NDC code is created from the "listings.txt" file by combining LISTING_SEQ_NO, LBLCODE and PRODCODE
Version	Unknown
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	National Drug Code
Code System Source	U.S. Food and Drug Administration (FDA)



### 2.2.3.3.11 Ingredient Name

**Table 2-83 Ingredient Name Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.20
Name	Ingredient Name Value Set
Source	Food and Drug Administration (FDA)
URL	<a href="http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/ucm162523.htm">http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/ucm162523.htm</a>
Purpose	This identifies drug ingredients, such as Gentian violet
Definition	Unique identifiers for active drug ingredient
Version	Unknown
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Unique Ingredient Identifier (UNII)
Code System Source	Food and Drug Administration (FDA)

### 2.2.3.3.12 Medication Vehicle

**Table 2-84 Medication Vehicle Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.21
Name	Medication Vehicle Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This indicates non-active ingredient(s), or substances not of therapeutic interest, in which the active ingredients are dispersed. Most often applied to liquid products where the major fluid Component is considered the vehicle
Definition	Shall contain a concept descending from code 412307009 from the SNOMED CT® For example: Normal Saline is the vehicle in "Ampicillin 150mg in 50ml NS"; Aquaphor is the vehicle in "10% LCD in Aquaphor"
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	SNOMED CT®
Code System Source	National Library of Medicine - UMLS



## 2.2.3.4 ALLERGIES

### 2.2.3.4.1 Allergy/Adverse Event (Reaction)

This indicates the reaction that may be caused by the product or agent.

- See 2.2.3.1.1 Problem

### 2.2.3.4.2 Allergy/Adverse Event Type

**Table 2-85 Allergy/Adverse Event Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.6.2
Name	Allergy/Adverse Event Type Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This describes the type of product and intolerance suffered by the patient
Definition	The SNOMED CT® has been limited by HITSP to the value set reproduced below in Table 2-86 Allergy/Adverse Event Type Value Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine - UMLS

**Table 2-86 Allergy/Adverse Event Type Value Set Definition**

Concept Code	Concept Name (SNOMED Fully Specified Name)	Definition	Usage Note
420134006	Propensity to adverse reactions (disorder)	Not Available	Propensity to adverse reactions
418038007	Propensity to adverse reactions to substance (disorder)	Not Available	Propensity to adverse reactions to substance
419511003	Propensity to adverse reactions to drug (disorder)	Not Available	Propensity to adverse reactions to drug
418471000	Propensity to adverse reactions to food (disorder)	Not Available	Propensity to adverse reactions to food
419199007	Allergy to substance (disorder)	Not Available	Allergy to substance
416098002	Drug allergy (disorder)	Not Available	Drug allergy
414285001	Food allergy (disorder)	Not Available	Food allergy
59037007	Drug intolerance (disorder)	Not Available	Drug intolerance
235719002	Food intolerance (disorder)	Not Available	Food intolerance

### 2.2.3.4.3 Allergy/Adverse Event Severity

This is a description of the level of the severity of the allergy or intolerance.

- See 2.2.3.1.6 Problem Severity



#### 2.2.3.4.4 Allergy/Adverse Event Product

This identifies the product or agent that causes the intolerance.

- See 2.2.3.3.11 Ingredient Name
- See 2.2.3.3.9 Medication Drug Class
- See 2.2.3.3.8 Medication Clinical Drug Name

#### 2.2.3.5 IMMUNIZATIONS

##### 2.2.3.5.1 Vaccine Administered

**Table 2-87 Vaccine Administered Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.22
Name	Vaccine Administered Value Set
Source	Centers for Disease Control & Prevention (CDC)
URL	<a href="http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm">http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm</a>
Purpose	This identifies the vaccine substance administered
Definition	See HL7 Table 0292 in Appendix A of HL7 2.5.1 and CDC Website for updates. Mapping between CPT and CVX is also available in CDC CVX Web Site
Version	Unknown
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Codes for Vaccine Administered (CVX code)
Code System Source	Centers for Disease Control and Prevention (CDC)

##### 2.2.3.5.2 Vaccine Manufacturer

**Table 2-88 Vaccine Manufacturer Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.13
Name	Vaccine Manufacturer Value Set
Source	Centers for Disease Control and Prevention (CDC)
URL	<a href="http://www.cdc.gov/vaccines/programs/iis/stds/mvx.htm">http://www.cdc.gov/vaccines/programs/iis/stds/mvx.htm</a>
Purpose	This identifies the vaccine manufacturer
Definition	See HL7 Table 0227 in Appendix A of HL7 2.5.1 and CDC Website for updates
Version	Unknown
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown



Element	Description
Revision Date	N/A
Code System Name	Manufacturers of Vaccines (MVX)
Code System Source	Centers for Disease Control and Prevention (CDC)

### 2.2.3.5.3 No Immunization Reason

**Table 2-89 No Immunization Reason Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.19717
Name	No Immunization Reason Value Set
Source	Health Level Seven (HL7) Version 3.0
URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Purpose	This identifies the reason why the immunization did not occur
Definition	The HL7 ActNoImmunizationReason value set is reproduced below in Table 2-90 No Immunization Reason Value Set Definition
Version	V3NE08
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Act Reason
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

**Table 2-90 No Immunization Reason Value Set Definition**

Concept Code	Concept Name	Definition
IMMUNE	Immunity	Testing has shown that the patient already has immunity to the agent targeted by the immunization
MEDPREC	Medical precaution	The patient currently has a medical condition for which the vaccine is contraindicated or for which precaution is warranted
OSTOCK	Out of stock	There was no supply of the product on hand to perform the service
PATOBJ	Patient objection	The patient or their guardian objects to receiving the vaccine
PHILISOP	Philosophical objection	The patient or their guardian objects to receiving the vaccine because of philosophical beliefs
RELIG	Religious objection	The patient or their guardian objects to receiving the vaccine on religious grounds
VACEFF	Vaccine efficacy concerns	The intended vaccine has expired or is otherwise believed to no longer be effective Example: Due to temperature exposure
VACSAF	Vaccine safety concerns	The patient or their guardian objects to receiving the vaccine because of concerns over its safety





#### 2.2.3.5.4 Immunization Information Source

**Table 2-91 Immunization Information Source Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.39
Name	Immunization Information Source
Source	Implementation Guide for Immunizations Data Transaction using Versions 2.3.1 of the Health Level Seven (HL7) Standard Protocol
URL	<a href="http://www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf">www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf</a>
Purpose	This identifies the source of information for this immunization record or, more generically, whether the immunization being reported has just been administered (new) or came from other records (historical)
Definition	See NIP Table 001 in Appendix 1 in CDC Implementation Guide for Immunization Data Transactions and the table is reproduced in Table 2-92 Immunization Information Source Value Set Definition
Version	2.2
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Immunization Information Source
Code System Source	Implementation Guide for Immunizations Data Transaction using Versions 2.3.1 of the Health Level Seven (HL7) Standard Protocol

**Table 2-92 Immunization Information Source Value Set Definition**

Concept Code	Concept Name	Definition
00	New immunization record	Not Available
01	Historical information - source unspecified	Not Available
02	Historical information - from other provider	Not Available
03	Historical information - from parent's written record	Not Available
04	Historical information - from parent's recall	Not Available
05	Historical information - from other registry	Not Available
06	Historical information - from birth certificate	Not Available
07	Historical information - from school record	Not Available
08	Historical information - from public agency	Not Available

#### 2.2.3.5.5 Immunization Services Funding Eligibility

**Table 2-93 Immunization Service Funding Eligibility Value Set**

Element	Description
Identifier	2.16.840.1.114222.4.5.301
Name	Immunization Service Funding Eligibility Value Set
Source	Centers for Disease Control & Prevention (CDC) - Implementation Guide for Immunizations Data Transaction using Versions 2.3.1 of the Health Level Seven (HL7) Standard Protocol
URL	<a href="http://www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf">www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf</a>
Purpose	Identifies the Immunization Service Funding Eligibility assigned to the patient for the purpose of identifying sources of reimbursement



Element	Description
Definition	See User Defined Table 0064 Financial Class in Appendix 1 in CDC Implementation Guide for Immunization Data Transactions
Version	20060625
Type	Extensional
Binding	Static
Status	Active
Effective Date	20060625
Creation Date	20060625
Revision Date	N/A
Revision Date	20060625
Code System Name	Immunization Service Funding Eligibility
Code System Source	Implementation Guide for Immunizations Data Transaction using Versions 2.3.1 of the Health Level Seven (HL7) Standard Protocol

## 2.2.3.6 MEASUREMENTS AND LABORATORY RESULTS

### 2.2.3.6.1 Laboratory Observation

This identifies laboratory results.

#### 2.2.3.6.1.1 Laboratory Observation Identifier (formally know as Laboratory Tests Results)

**Table 2-94 Laboratory Observation Identifier Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.40
Name	Laboratory Observation Identifier Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies the particular laboratory result being reported upon in a lab test
Definition	The value set is defined as being the set of LOINC® values which represent laboratory results. These are defined as LOINC® codes with CLASSTYPE=1 and (ORDER_OBS=Both or ORDER_OBS=Observation)
Version	20081218
Type	Extensional
Binding	Dynamic
Status	Active
Effective Date	20100125
Expiration Date	N/A
Creation Date	20081218
Revision Date	20100125
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc

#### 2.2.3.6.1.2 Laboratory Finding Identifier (formally known a Laboratory Observation)



**Table 2-95 Laboratory Finding Identifier Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.24
Name	Laboratory Finding Identifier Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	These values are used in laboratory results to report the specific findings
Definition	Shall contain a value descending from the SNOMED CT® Laboratory Test Finding (118246004) hierarchy Note: this value set is does not attempt to include all possible SNOMED codes and should be considered a minimum "starter " set
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20100125
Expiration Date	N/A
Creation Date	20081218
Revision Date	20100125
Code System Name	SNOMED CT®
Code System Source	National Library of Medicine- UMLS

#### 2.2.3.6.2 Laboratory Order

**Table 2-96 Laboratory Order Value Set**

Element	Description
Identifier	1.3.6.1.4.1.12009.10.2.2
Name	Laboratory Order Value Set
Source	Regenstrief Institute, Inc.
URL	<a href="http://loinc.org/usage">http://loinc.org/usage</a>
Purpose	This identifies the laboratory order
Definition	From the LOINC® database, Laboratory order concepts for the Laboratory Order Value Set.. Developed in-conjunction with NLM Note: this value set does not attempt to include all possible LOINC order codes and should be considered a minimum "starter " set
Version	201001109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20100125
Expiration Date	N/A
Creation Date	20091109
Revision Date	20100125
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc.



### 2.2.3.6.3 Result Normalcy Status

This identifies the normalcy status of the result.

**Table 2-97 V3 Result Normalcy Status Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.78
Name	Result Normalcy Status Value Set
Source	Health Level Seven (HL7) Version 3.0
URL	<a href="http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008">http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008</a>
Purpose	A rough qualitative interpretation of the observation, such as "normal", "abnormal", "below normal", "change up", "resistant", "susceptible", etc.
Definition	The HL7 Observation Interpretation has been reproduced below in Table 2-98 V3 Result Normalcy Value Set Definition
Version	V3NE08
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Observation Interpretation
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

**Table 2-98 V3 Result Normalcy Value Set Definition**

Concept Code	Concept Name	Definition
B	Better	Better (of severity or nominal observations)
D	Decreased	Significant change down (quantitative observations, does not imply B or W)
U	Increased	Significant change up (quantitative observations, does not imply B or W)
W	Worse	Worse (of severity or nominal observations)
<	Low off scale	Below absolute low-off instrument scale. This is statement depending on the instrument, logically does not imply LL or L (e.g., if the instrument is inadequate). If an off-scale value is also low or critically low one must also report L and LL respectively
>	High off scale	Above absolute high-off instrument scale. This is statement depending on the instrument, logically does not imply LL or L (e.g., if the instrument is inadequate). If an off-scale value is also high or critically high one must also report H and HH respectively
A	Abnormal	Abnormal (for nominal observations, all service types)
AA	Abnormal alert	Abnormal alert (for nominal observations and all service types)
HH	High alert	Above upper alert threshold (for quantitative observations)
LL	Low alert	Below lower alert threshold (for quantitative observations)
H	High	Above high normal (for quantitative observations)
L	Low	Below low normal (for quantitative observations)
N	Normal	Normal (for all service types)
I	Intermediate	Intermediate
MS	Moderately susceptible	Moderately susceptible
R	Resistant	Resistant
S	Susceptible	Susceptible



Concept Code	Concept Name	Definition
VS	Very susceptible	Very susceptible
HX	Above high threshold	The numeric observation/test result is interpreted as being above the high threshold value for a particular protocol within which the result is being reported Example: An ALT (SGOT) result above a protocol-defined threshold value of 2.5 times the upper limit of normal based on the subject's sex and age
LX	Below low threshold	The numeric observation/test result is interpreted as being below the low threshold value for a particular protocol within which the result is being reported Example: A Total White Blood Cell Count falling below a protocol-defined threshold value of 3000/mm <sup>3</sup>

#### 2.2.3.6.4 Result Status

This identifies the status for the results (observation).

##### 2.2.3.6.4.1 HL7 V2.5

**Table 2-99 V2 Result Status Code System**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.41
Name	V2 Result Status Value Set
Source	Health Level Seven (HL7) Version 2.5.1
URL	<a href="http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip">http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip</a>
Purpose	This identifies the status for the results (observation)
Definition	See HL7 Table 0123 (Result Status) in Appendix A of HL7 2.5.1 specifications The Results Status value set is reproduced below in Table 2-100 V2 Result Status Value Set Definition
Version	2.5.1
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Result Status
Code System Source	Health Level Seven (HL7) Version 2.5.1



**Table 2-100 V2 Result Status Value Set Definition**

Concept Code	Concept Name	Definition
A	Some, but not all, results available	Not Available
C	Correction to results	Not Available
F	Final results; results stored and verified. Can only be changed with a corrected result	Not Available
I	No results available; specimen received, procedure incomplete	Not Available
O	Order received; specimen not yet received	Not Available
P	Preliminary: A verified early result is available, final results not yet obtained	Not Available
R	Results stored; not yet verified	Not Available
S	No results available; procedure scheduled, but not done	Not Available
X	No results available; Order canceled	Not Available
Y	No order on record for this test. (Used only on queries)	Not Available
Z	No record of this patient. (Used only on queries)	Not Available

**2.2.3.6.4.2 HL7 V3****Table 2-101 V3 Result Status Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.65
Name	V3 Result Status Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies the status for the results (observation)
Definition	The HL7 ActStatus has been limited by HITSP to the value set reproduced below in Table 2-102 V3 Result Status Value Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Act Status
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

**Table 2-102 V3 Result Status Value Set Definition**

Concept Code	Concept Name	Definition
completed	Completed	An Act that has terminated normally after all of its constituents have been performed
aborted	Aborted	The Act has been terminated prior to the originally intended completion
active	Active	The Act can be performed or is being performed
cancelled	Cancelled	The Act has been abandoned before activation
held	Held	An Act that is still in the preparatory stages has been put aside. No action can occur until the Act is released
new	New	An Act that is in the preparatory stages and may not yet be acted upon
suspended	Suspended	An Act that has been activated (actions could or have been performed against it), but has been temporarily disabled. No further action should be taken against it until it is released



### 2.2.3.6.5 Vital Sign Result Type

**Table 2-103 Vital Sign Result Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.62
Name	Vital Sign Result Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies the vital sign result type
Definition	The Vital Sign Results has been limited by HITSP to the value set reproduced below in Table 2-104 Vital Sign Result Value Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc.

**Table 2-104 Vital Sign Result Value Set Definition**

Concept Code	Concept Name	Definition	Usage Note	Code System Name
9279-1	Respiratory Rate	Breaths:NRat:Pt:Respiratory system:Qn:		LOINC®
8867-4	Heart Rate	Heart beat:NRat:Pt:XXX:Qn:		LOINC®
2710-2	O2 % BldC Oximetry	Oxygen saturation:SFR:Pt:BldC:Qn:Oximetry		LOINC®
8480-6	BP Systolic	Intravascular systolic:Pres:Pt:Arterial system:Qn:		LOINC®
8462-4	BP Diastolic	Intravascular diastolic:Pres:Pt:Arterial system:Qn:		LOINC®
8310-5	Body Temperature	Body temperature:Temp:Pt:Patient:Qn:		LOINC®
8302-2	Height	Body height:Len:Pt:Patient:Qn:		LOINC®
8306-3	Height (Lying)	Body height^lying:Len:Pt:Patient:Qn:		LOINC®
8287-5	Head Circumference	Circumference:occipital-frontal:Len:Pt:Head:Qn:Tape measure		LOINC®
3141-9	Weight Measured	Body weight:Mass:Pt:Patient:Qn:Measured	Body Weight (Measured)	LOINC®

### 2.2.3.6.6 Units of Measure

**Table 2-105 Unit of Measure Code System**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.29
Name	Unit of Measure
Source	Regenstrief Institute, Inc.
URL	<a href="http://www.regenstrief.org/medinformatics/ucum">http://www.regenstrief.org/medinformatics/ucum</a>
Purpose	This identifies the measured units



Element	Description
Definition	Units of measure concepts that includes atomic UCUM units as well as UCUM expression. Commonly used UCUM units of measure concepts can be obtained from UCUM Web Site <a href="http://aurora.regenstrief.org/~ucum/ucum.html#datyp2apdxatblxmp">http://aurora.regenstrief.org/~ucum/ucum.html#datyp2apdxatblxmp</a>
Version	Unknown
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Unified Code for Units of Measure (UCUM)
Code System Source	Regenstrief Institute, Inc.

#### 2.2.3.6.7 Order Control

**Table 2-106 Order Control Code SystemTable**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.69
Name	Order Control
Source	HITSP
URL	Not Available at Publication
Purpose	This value set identifies the codes that are permitted to be used to change the status of a laboratory order
Definition	The HL7 Order Control Codes has been limited by HITSP to the value set reproduced below in Table 2-107 Order Control Value Set Definition
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	Order Control
Code System Source	Health Level Seven (HL7) Version 2.5.1

**Table 2-107 Order Control Value Set Definition**

Concept Code	Concept Name	Definition
NW	New Order/Service	Not Available
OK	Order/Service accepted and OK	Not Available
UA	Unable to accept order/service	Not Available
CA	Cancel Order/Service Request	Not Available
OC	Order/Service Cancelled	Not Available
CR	Cancelled as Requested	Not Available
UC	Unable to Cancel	Not Available
DC	Discontinue Order/Service Request	Not Available





Concept Code	Concept Name	Definition
OD	Order/Service Discontinued	Not Available
DR	Discontinued as Requested	Not Available
UD	Unable to Discontinue	Not Available
PA	Parent order/service	Not Available
CH	Child order/service	Not Available
XO	Change Order/Service Request	Not Available
XX	Order/Service Changed	Not Available
XR	Changed as Requested	Not Available
UX	Unable to Change	Not Available

#### 2.2.3.6.8 Order Status

**Table 2-108 Order Status Code SystemTable**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.70
Name	Order Status
Source	HITSP
URL	Not Available at Publication
Purpose	This value set describes the current status of an order.
Definition	The HL7 Order Status has been limited by HITSP to the value set reproduced below in Table 2-109 Order Status Codes Value Set Definition
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	Order Status
Code System Source	Health Level Seven (HL7) Version 2.5.1

**Table 2-109 Order Status Codes Value Set Definition**

Concept Code	Concept Name	Definition
A	Some, but not all, results available	Not Available
CA	Order was canceled	Not Available
CM	Order is completed	Not Available
DC	Order was discontinued	Not Available
ER	Error, order not found	Not Available
IP	In process, unspecified	Not Available
SC	In process, scheduled	Not Available



### 2.2.3.6.9 Order Setting Type

**Table 2-110 Order Setting Type Code SystemTable**

Element	Description
Identifier	2.16.840.1.113883.12.482
Name	Order Setting Type
Source	Health Level Seven (HL7) Version 2.5.1 – HL7 Table 0482 in Chapter 4, Section 4.5.1.29
URL	<a href="http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip">http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip</a>
Purpose	This value set describes the care setting type associated with an order.
Definition	See HL7 Table 0482 (Order Type) in Chapter 4, Section 4.5.1.29 of HL7 2.5.1 specifications
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	Order Type
Code System Source	Health Level Seven (HL7) Version 2.5.1

**Table 2-111 Order Setting Code Value Set Definition**

Concept Code	Concept Name	Definition
I	Inpatient Order	Not Available
O	Outpatient Order	Not Available

### 2.2.3.6.10 Order Priority

**Table 2-112 Order Priority Code SystemTable**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.71
Name	Order Priority
Source	HITSP
URL	Not Available at Publication
Purpose	This value set describes the current status of an order.
Definition	The HL7 Order Priority has been limited by HITSP to the value set reproduced below in Table 2-113 Order Priority Codes Value Set Definition
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	Order Priority
Code System Source	Health Level Seven (HL7) Version 2.5.1



**Table 2-113 Order Priority Codes Value Set Definition**

Concept Code	Concept Name	Definition
S	Stat	With highest priority
A	ASAP	Fill after S orders
R	Routine	Default
P	Preop	Not Available
C	Callback	Not Available
T	Timing critical	A request implying that it is critical to come as close as possible to the requested time, e.g., for a trough anti-microbial level

**2.2.3.6.11 Specimen Action Code****Table 2-114 Specimen Action Code Value Set**

Element	Description
Identifier	2.16.840.1.113883.12.65
Name	Specimen Action Code
Source	Health Level Seven (HL7) Version 2.5.1 – HL7 Table 0065 in Chapter 4, Section 4.5.3.11
URL	<a href="http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip">http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip</a>
Purpose	This value set identifies the action to be taken with respect to the specimens that accompany or precede an order
Definition	See HL7 Table 0065 in Chapter 4, Section 4.5.3.11 of HL7 2.5.1 as reproduced below in Table 2-120 Specimen Collection Method Value Set Definition
Version	2.5.1
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Specimen Action Code
Code System Source	Health Level Seven (HL7) Version 2.5.1

**Table 2-115 Specimen Action Code Value Set Definition**

Concept Code	Concept Name	Definition
A	Add ordered tests to the existing specimen	Not Available
G	Generated order; reflex order	Not Available
L	Lab to obtain specimen from patient	Not Available
O	Specimen obtained by service other than Lab	Not Available
P	Pending specimen; Order sent prior to delivery	Not Available
R	Revised order	Not Available
S	Schedule the tests specified below	Not Available



### 2.2.3.6.12 Specimen Risk

**Table 2-116 Specimen Risk Code SystemTable**

Element	Description
Identifier	2.16.840.1.113883.12.489
Name	Specimen Risk
Source	Health Level Seven (HL7) Version 2.5.1 – HL7 Table 0489 in Appendix A
URL	<a href="http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip">http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip</a>
Purpose	This value set encodes any known or suspected specimen hazards, e.g., exceptionally infectious agent or blood from a hepatitis patient
Definition	See HL7 Table 0489 in Appendix A of HL7 2.5.1 as reproduced below in Table 2-117 Specimen Risk Value Set Definition
Version	2.5.1
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Specimen Risk
Code System Source	Health Level Seven (HL7) Version 2.5.1

**Table 2-117 Specimen Risk Value Set Definition**

Concept Code	Concept Name	Definition
AGG	Aggressive	Not Available
BHZ	Biohazard	Not Available
BIO	Biological	Not Available
COR	Corrosive	Not Available
ESC	Escape Risk	Not Available
EXP	Explosive	Not Available
IFL	MaterialDangerInflammable	Not Available
INF	MaterialDangerInfectious	Not Available
INJ	Injury Hazard	Not Available
POI	Poison	Not Available
RAD	Radioactive	Not Available

### 2.2.3.6.13 Specimen Type

Please note that the HL7 2.5.1 standard recommends table 0487 or a nationally recognized coding scheme.. We invite comment on whether this value set should be further constrained.



**Table 2-118 Specimen Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.73
Name	Specimen Type
Source	HITSP
URL	Not Available at Publication
Purpose	This value set describes the nature of the specimen.
Definition	The value set includes all SNOMED CT terms descending from the Specimen (123038009) concept hierarchy
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine- UMLS

**2.2.3.6.14 Specimen Collection Method**

Please note that the HL7 2.5.1 standard suggests table 0488 or a nationally recognized coding scheme. Table 0488 is not empty, thus we have recommended it. We invite comment on whether this value set should use SNOMED CT terms instead, and if so, should those terms map to table 0488.

**Table 2-119 Specimen Collection Method Value Set**

Element	Description
Identifier	2.16.840.1.113883.12.488
Name	Specimen Collection Method
Source	Health Level Seven (HL7) Version 2.5.1 – HL7 Table 0488 in Appendix A
URL	<a href="http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip">http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip</a>
Purpose	This value set describes the procedure or process by which the specimen was collected
Definition	See HL7 Table 0488 in Appendix A of HL7 2.5.1 as reproduced below in Table 2-120 Specimen Collection Method Value Set Definition
Version	2.5.1
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Specimen Collection Method
Code System Source	Health Level Seven (HL7) Version 2.5.1



**Table 2-120 Specimen Collection Method Value Set Definition**

Concept Code	Concept Name	Definition
FNA	Aspiration, Fine Needle	Not Available
PNA	Arterial puncture	Not Available
BIO	Biopsy	Not Available
BCAE	Blood Culture, Aerobic Bottle	Not Available
BCAN	Blood Culture, Anaerobic Bottle	Not Available
BCPD	Blood Culture, Pediatric Bottle	Not Available
CAP	Capillary Specimen	Not Available
CATH	Catheterized	Not Available
EPLA	Environmental, Plate	Not Available
ESWA	ESWA Environmental, Swab	Not Available
LNA	Line, Arterial	Not Available
CVP	Line, CVP	Not Available
LNV	Line, Venous	Not Available
MARTL	Martin-Lewis Agar	Not Available
ML11	Mod. Martin-Lewis Agar	Not Available
PACE	Pace, Gen-Probe	Not Available
PIN	Pinworm Prep	Not Available
KOFFP	Plate, Cough	Not Available
MLP	Plate, Martin-Lewis	Not Available
NYP	Plate, New York City	Not Available
TMP	Plate, Thayer-Martin	Not Available
ANP	Plates, Anaerobic	Not Available
BAP	Plates, Blood Agar	Not Available
PRIME	Pump Prime	Not Available
PUMP	Pump Specimen	Not Available
QC5	Quality Control For Micro	Not Available
SCLP	Scalp, Fetal Vein	Not Available
SCRAPS	Scrapings	Not Available
SHA	Shaving	Not Available
SWA	Swab	Not Available
SWD	Swab, Dacron tipped	Not Available
WOOD	Swab, Wooden Shaft	Not Available
TMOT	Transport Media,	Not Available
TMAN	Transport Media, Anaerobic	Not Available
TMCH	Transport Media, Chlamydia	Not Available
TMM4	Transport Media, M4	Not Available
TMMY	Transport Media, Mycoplasma	Not Available
TMPV	Transport Media, PVA	Not Available
TMSC	Transport Media, Stool Culture	Not Available
TMUP	Transport Media, Ureaplasma	Not Available
TMVI	Transport Media, Viral	Not Available



Concept Code	Concept Name	Definition
VENIP	Venipuncture	Not Available

#### 2.2.3.6.15 Newborn Screening Order

**Table 2-121 Newborn Screening Order Value Set**

Element	Description
Identifier	1.3.6.1.4.1.12009.10.2.1
Name	Newborn Screening Order Value Set
Source	Regenstrief Institute, Inc.
URL	<a href="http://newbornscreeningcodes.nlm.nih.gov/nb/sc/constructingNBSHL7messages">http://newbornscreeningcodes.nlm.nih.gov/nb/sc/constructingNBSHL7messages</a>
Purpose	This identifies the newborn screening order
Definition	From the LOINC® database, Newborn Screening order concepts. Developed in-conjunction with NLM
Version	201001109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20100110
Expiration Date	N/A
Creation Date	20100110
Revision Date	N/A
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc.

#### 2.2.3.6.16 Newborn Screening Results – Observation and Findings

**Table 2-122 Newborn Screening Results – Observation and Findings Value Set**

Element	Description
Identifier	1.3.6.1.4.1.12009.10.2.1
Name	Newborn Screening Results – Observation and Findings Value Set
Source	Regenstrief Institute, Inc.
URL	<a href="http://newbornscreeningcodes.nlm.nih.gov/nb/sc/constructingNBSHL7messages">http://newbornscreeningcodes.nlm.nih.gov/nb/sc/constructingNBSHL7messages</a>
Purpose	This identifies the newborn screening results – observation and findings
Definition	From the LOINC® database, Newborn Screening Results – Observation and Findings concepts. Developed in-conjunction with NLM
Version	201001109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20100110
Expiration Date	N/A
Creation Date	20100110
Revision Date	N/A
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc.



## 2.2.3.7 PROCEDURES

### 2.2.3.7.1 Procedure

**Table 2-123 Procedure Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.28
Name	Procedure Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies medical procedures
Definition	Shall contain a value descending from the SNOMED Procedures (71388002) hierarchy
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine

## 2.2.3.8 PROVIDERS

### 2.2.3.8.1 Provider Role

**Table 2-124 Provider Role Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.4.2
Name	Provider Role Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This classifies providers according to the role they play in the healthcare of the individual
Definition	See HL7 Table 0443 in Appendix A of HL7 2.5.1 Specification. The HL7 Version 2 Provider Role Vocabulary has been limited by HITSP to the value set reproduced below in Table 2-125 Provider Role Value Set Definition
Version	20090630
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	20090630
Code System Name	Provider Role
Code System Source	Health Level Seven (HL7) Version 2.5.1





**Table 2-125 Provider Role Value Set Definition**

Concept Code	Concept Name	Definition
CP	Consulting Provider	Not Available
PP	Primary Care Provider	Not Available
RP	Referring Provider	Not Available

#### 2.2.3.8.2 Provider Type

**Table 2-126 Provider Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.4
Name	Provider Type Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	The Provider type vocabulary classifies providers according to the type of license or accreditation they hold or the service they provide
Definition	<p>The Health Care Provider Taxonomy Vocabulary has been limited by HITSP to the value set reproduced below in Table 2-127 Provider Type Value Set Definition</p> <p>Note on Missing Codes: Provider Type is expected to be a short list of 20-30 codes that identify types of healthcare providers, and would work with terminologies used to classify providers in other transactions. The Health Care Provider Taxonomy provides the appropriate high-level concepts but does not provide codes for them. A request for these codes has been made to NUCC</p> <p>See <a href="http://www.nucc.org/index.php?option=com_content&amp;task=view&amp;id=14&amp;Itemid=40">http://www.nucc.org/index.php?option=com_content&amp;task=view&amp;id=14&amp;Itemid=40</a></p>
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Health Care Provider Taxonomy
Code System Source	National Uniform Claim Committee (NUCC)

**Table 2-127 Provider Type Value Set Definition**

Concept Code	Concept Name	Definition
	Behavioral Health & Social Service Providers	Broad classification aggregating providers who are trained and educated to perform services related to behavioral health, mental health, and counseling and may be licensed or practice within the scope or licensure or training
	Chiropractic Providers	A provider qualified by a Doctor of Chiropractic (D.C.), licensed by the State and who practices chiropractic medicine -that discipline within the healing arts which deals with the nervous system and its relationship to the spinal column and its interrelationship with other body systems



Concept Code	Concept Name	Definition
	Dental Providers	Broad category to identify practitioners who render services related the practice of dentistry. Dentistry is defined as the evaluation, diagnosis, prevention and/or treatment (nonsurgical, surgical or related procedures) of diseases, disorders and/or conditions of the oral cavity, maxillofacial area and/or the adjacent and associated structures and their impact on the human body; provided by a dentist, within the scope of his/her education, training and experience, in accordance with the ethics of the profession and applicable law
	Dietary and Nutritional Service Providers	Broad category defining practitioners who help prevent and treat illness by promoting healthy eating habits, scientifically evaluating diets and suggesting modifications. They may also assess the nutritional needs of patients, develop and implement nutritional care plans
	Emergency Medical Service Providers	Broad category for individuals who complete additional training and education in the area of pre-hospital emergency services and are licensed and/or practice within the scope of that training
	Eye and Vision Service Providers	Broad category grouping individuals who renders services related to the human eye and visual systems, but are not an allopathic or osteopathic physicians
	Nursing Service Providers	Providers who are trained and educated to perform and administer services related to health promotion, disease prevention, acute and chronic care, spiritual guidance and comfort for healing and health, restoration of health and health maintenance across the life span
	Pharmacy Service Providers (Individuals)	A broad category grouping providers who render services relating to the preparation and dispensing of drugs
	Allopathic & Osteopathic Physicians	A broad category grouping state licensed providers in allopathic or osteopathic medicine whose scope of practice is determined by education
	Podiatric Medicine and Surgery Providers	Broad category grouping licensed providers who renders services related to the human foot
	Respiratory, Developmental, Rehabilitative and Restorative Service Providers	A provider who is trained and educated to perform services related to respiratory care, physical therapy, occupational therapy, developmental therapy, rehabilitation and restorative services and may be licensed, certified or practice within the scope of training
	Speech, Language and Hearing Providers	A provider who renders services to improve communicative skills of people with language, speech and hearing impairments
	Agencies	A non-facility provider that renders outpatient outreach services that are not provided at a specific location. The licensure or registration is assigned to the agency rather than to the individual practitioners as would be the case in a group practice



Concept Code	Concept Name	Definition
	Ambulatory Health Care Facilities	A facility or distinct part of one used for the diagnosis and treatment of outpatients. "Clinic/Center" is irregularly defined, sometimes being limited to organizations serving specialized treatment requirements or distinct patient/client groups (e.g., radiology, poor, and public health)
	Hospitals	A health care organization that has a governing body, an organized medical staff and professional staff and inpatient facilities and provides medical nursing and related services for ill and injured patients 24 hrs per day, seven days per week. For licensing purposes, each state has its own definition of hospital
	Laboratories	A room or building equipped for scientific experimentation, research, testing, or clinical studies of materials, fluids, or tissues obtained from patients
	Managed Care Organizations	Not Available
	Nursing & Custodial Care Facilities	Broad category identifying licensed facilities with inpatient beds specializing in nursing and custodial care
	Residential Treatment Facilities	Live in facilities where patients or clients, who because of their physical, mental, or emotional condition, are not able to live independently, and who receive treatment appropriate to their particular needs in a less restrictive environment than an inpatient facility. For example, an RTC may provide educational training and therapy for children with emotional disturbances or continuing care and therapy for people with severe mental handicaps
	Suppliers	Suppliers, pharmacies, and other health care providers who supply health care related products or medications and associated professional and administrative services
	Physician Assistants & Advanced Practice Nursing Providers	A broad grouping of providers who are: 1) trained, educated, and certified to perform basic medical and minor surgical services (or to assist the physician in performance of more complex services) under general physician supervision; and 2) trained, educated at a post-graduate level, and certified to perform autonomous and specialized roles as nurse practitioners, midwives, nurse anesthetists, or clinical nurse specialists
	Nursing Service Related Providers	Providers not otherwise classified, who perform or administer services in or related to the delivery or research of health care services, disease, and restoration of health. An individual provider who is not represented in one of the identified categories but whose data may be needed for clinical, operational or administrative processes
	Respite Care Facility	A facility with dorm rooms where individuals who are unable to care for themselves may stay on a short term basis overnight to allow relief to persons normally providing care to them



## 2.2.3.9 ADMISSIONS AND ENCOUNTERS

### 2.2.3.9.1 Admission Source

**Table 2-128 Admission Source Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.33
Name	Admission Source Value Set
Source	National Uniform Billing Committee (NUBC)
URL	<a href="http://www.nubc.org">www.nubc.org</a>
Purpose	This indicates where the patient was admitted from
Definition	See UB-04/NUBC CURRENT UB DATA SPECIFICATIONS MANUAL) UB-04 FL15
Version	Unknown
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Uniform Bill Source of Admission
Code System Source	National Uniform Billing Committee (NUBC)

### 2.2.3.9.2 Admission Type

**Table 2-129 Admission Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.33
Name	Admission Type Value Set
Source	National Uniform Billing Committee (NUBC)
URL	<a href="http://www.nubc.org">www.nubc.org</a>
Purpose	A code indicating the priority of the admission (e.g., Emergency, Urgent, Elective, et cetera)
Definition	See (UB-04/NUBC CURRENT UB DATA SPECIFICATIONS MANUAL) UB-04 FL14
Version	Unknown
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Uniform Bill Type of Admission/Visit
Code System Source	National Uniform Billing Committee (NUBC)



### 2.2.3.9.3 Encounter Type

**Table 2-130 Encounter Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.32
Name	Encounter Type Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This is used to identify medical services and procedures furnished by physicians and other healthcare professionals
Definition	This value set includes only the codes of the Current Procedure and Terminology designated for Evaluation and Management (99200 – 99299)
Version	20081218
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Current Procedural Terminology (CPT®) Fourth Edition (CPT-4); CPT Evaluation and Management Codes
Code System Source	American Medical Association (AMA)

### 2.2.3.9.4 Discharge Disposition

**Table 2-131 Discharge Disposition Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.33
Name	Discharge Disposition Value Set
Source	National Uniform Billing Committee (NUBC)
URL	<a href="http://www.nubc.org">www.nubc.org</a>
Purpose	This is the patient's anticipated location or status following the encounter (e.g., death, transfer to home/hospice/snf/AMA) – uses standard claims-based codes
Definition	UB-04/NUBC CURRENT UB DATA SPECIFICATIONS MANUAL- UB-04 FL17 – Patient Status
Version	Unknown
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Uniform Bill Patient Discharge Status
Code System Source	National Uniform Billing Committee (NUBC)

### 2.2.3.9.5 Patient Class

This is used to categorize patients by site where encounter occurred.



**Table 2-132 Patient Class Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.66
Name	Patient Class Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This is used to categorize patients by site where encounter occurred
Definition	The HL7 ActEncounterCode has been limited by HITSP to the value set reproduced below in Table 2-133 V3 Patient Class Value Set Definition
Version	20090630
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	20090630
Code System Name	Act Encounter Code
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

**Table 2-133 V3 Patient Class Value Set Definition**

Concept Code	Concept Name	Definition
EMER	Emergency	A patient encounter that takes place at a dedicated healthcare service delivery location where the patient receives immediate evaluation and treatment, provided until the patient can be discharged or responsibility for the patient's care is transferred elsewhere (for example, the patient could be admitted as an inpatient or transferred to another facility)
IMP	Inpatient encounter	A patient encounter where a patient is admitted by a hospital or equivalent facility, assigned to a location where patients generally stay at least overnight and provided with room, board, and continuous nursing service
AMB	Ambulatory	A comprehensive term for healthcare provided in a healthcare facility (e.g., a practitioners' office, clinic setting, or hospital) on a nonresident basis. The term ambulatory usually implies that the patient has come to the location and is not assigned to a bed. Sometimes referred to as an outpatient encounter

## 2.2.3.10 ADVANCE DIRECTIVES

### 2.2.3.10.1 Advance Directive Type

**Table 2-134 Advance Directive Type Value Set**

Element	Description
Identifier	2.16.840.1.113883.1.11.20.2
Name	Advance Directive Type Value Set
Source	Health Level Seven (HL7) Continuity of Care Document
URL	<a href="http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html">http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html</a>
Purpose	This identifies the type of the Advance Directive
Definition	Uses the AdvanceDirectiveTypeCode vocabulary defined by CCD, reproduced in Table 2-135 Advance Directive Type Value Set Definition
Version	1.0
Type	Extensional
Binding	Static



Element	Description
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine

**Table 2-135 Advance Directive Type Value Set Definition**

Concept Code	Concept Name	Definition	Usage Note
304251008	Resuscitation status (observable entity)	Not Available	Resuscitation
52765003	Intubation (procedure)	Not Available	Intubation
225204009	Intravenous infusion procedures (procedure)	Not Available	IV Fluid and Support
89666000	Cardiopulmonary resuscitation (procedure)	Not Available	CPR
281789004	Antibiotic therapy (procedure)	Not Available	Antibiotics
78823007	Life support procedure (procedure)	Not Available	Life Support

### 2.2.3.11 GENETIC TESTING

The following sections describe the value sets selected for reporting the results of genetic tests.

#### 2.2.3.11.1 Genetic Test Result Identifier

**Table 2-136 Genetic Test Result Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.34
Name	Genetic Test Result Identifier Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies different components of the test result
Definition	The LOINC® values have been limited by HITSP to the value set reproduced below in Table 2-137 Genetic Test Result Identifier Value Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc.

**Table 2-137 Genetic Test Result Identifier Value Set Definition**

Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
48008-7	Allele name Bld/T	Allele name [Identifier] in Blood or Tissue by Molecular genetics method
53034-5	Allelic state Bld/T	Allelic state [Finding] in Blood or Tissue by Molecular genetics method



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
48005-3	Amino acid marker Bld/T	Amino acid marker [Finding] in Blood or Tissue by Molecular genetics method
48006-1	Amino acid marker type Bld/T	Amino acid marker type in Blood or Tissue by Molecular genetics method
48004-6	DNA marker Bld/T	DNA marker [Finding] in Blood or Tissue by Molecular genetics method
53043-6	DNA mark analysis cover Pnl Bld/T	DNA marker analysis test coverage panel in Blood or Tissue by Molecular genetics method
53035-2	DNA marker assessed Bld/T	DNA marker assessed [Identifier] in Blood or Tissue by Molecular genetics method
53042-8	DNA marker assessed Pnl Bld/T	DNA marker assessed panel in Blood or Tissue by Molecular genetics method
48003-8	DNA marker ID Bld/T	DNA marker identifier [Identifier] in Blood or Tissue by Molecular genetics method
51960-3	DNA marker ID Pnl Bld/T	DNA marker results panel in Blood or Tissue by Molecular genetics method
53044-4	DNA marker Pnl Bld/T	DNA marker identified panel in Blood or Tissue by Molecular genetics method
47998-0	DNA marker interp short name Bld/T	DNA marker interpretation short name [Text] in Blood or Tissue by Molecular genetics method Narrative
48019-4	DNA marker type Bld/T	DNA marker type in Blood or Tissue by Molecular genetics method
51956-1	DNA reg analysis cover Pnl Bld/T	DNA region analysis test coverage panel in Blood or Tissue by Molecular genetics method
47999-8	DNA region name Bld/T	DNA region name [Identifier] in Blood or Tissue by Molecular genetics method
51959-5	DNA region of interest Bld/T	DNA region of interest [Identifier] in Blood or Tissue by Molecular genetics method
53041-0	DNA region of interest panel Bld/T	DNA region of interest panel in Blood or Tissue by Molecular genetics method
51964-5	Drug eff analysis imp Bld/T-Imp	Drug efficacy analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method
51961-1	Drug eff marker interp Bld/T-Imp	Drug efficacy marker interpretation [interpretation] in Blood or Tissue Qualitative by Molecular genetics method
51971-0	Drug metab analysis interp Bld/T-Imp	Drug metabolism analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method
53040-2	Drug metab marker interp Bld/T-Imp	Drug metabolism marker interpretation [interpretation] in Blood or Tissue by Molecular genetics method
53036-0	Filler DNA analysis test ID Bld/T	Filler DNA analysis test identifier [Identifier] in Blood or Tissue by Molecular genetics method
48018-6	Gene ID Bld/T	Gene [Identifier] in Blood or Tissue by Molecular genetics method
53039-4	Gene dis anal carrier interp Bld/T-Imp	Genetic disease analysis overall carrier interpretation [interpretation] in Blood or Tissue by Molecular genetics method
51968-6	Gene dis anal interp Bld/T-Imp	Genetic disease analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method
51969-4	Gene dis anal rept Bld/T Doc	Genetic disease analysis report [Finding] in Blood or Tissue Document by Molecular genetics method
51967-8	Gene dis assessed Bld/T	Genetic disease assessed [Identifier] in Blood or Tissue by Molecular genetics method
51966-0	Gene dis DNA anal Pnl Bld/T	Genetic disease DNA analysis panel in Blood or Tissue by Molecular genetics method
53037-8	Gene dis marker interp Bld/T-Imp	Genetic disease marker interpretation [interpretation] in Blood or Tissue by Molecular genetics method
48002-0	Genomic source class Bld/T	Genomic source class [Type] in Blood or Tissue by Molecular genetics method
48013-7	Genomic reference sequence ID Bld/T	Genomic reference sequence [Identifier] in Blood or Tissue by Molecular genetics method
51970-2	Individual allele ID Bld/T	Individual allele identifier [Identifier] in Blood or Tissue by Molecular genetics method
51975-1	Individual allele ID panel Bld/T	Individual allele results panel in Blood or Tissue by Molecular genetics method
48015-2	Individual Allele Pnl Bld/T	Individual allele panel in Blood or Tissue by Molecular genetics method





Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
51963-7	Medication assessed Bld/T	Medication assessed [Identifier] in Blood or Tissue by Molecular genetics method
51965-2	Pharmacogenetic anal rpt Bld/T Doc	Pharmacogenetic analysis report [Finding] in Blood or Tissue Document by Molecular genetics method
51962-9	Pharmacogenetic DNA anal Pnl Bld/T	Pharmacogenetic DNA analysis panel in Blood or Tissue by Molecular genetics method
51957-9	Placer DNA anal test ID Bld/T	Placer DNA analysis test identifier [Identifier] in Blood or Tissue by Molecular genetics method
53577-3	Reason for study Bld/T	Reason for study additional note [Text] in Blood or Tissue by Molecular genetics method Narrative
53045-1	Reference sequence alteration Bld/T	Reference sequence alteration [Identifier] in Blood or Tissue by Molecular genetics method
51958-7	Transcript reference sequence ID Bld/T	Transcript reference sequence [Identifier] in Blood or Tissue by Molecular genetics method

## 2.2.3.11.2 Genetic Test Result Value

**Table 2-138 Genetic Test Result Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.35
Name	Genetic Test Result Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies the genetic test results
Definition	The LOINC® values have been limited by HITSP to the value set reproduced below in Table 2-139 Genetic Test Result Value Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc.

**Table 2-139 Genetic Test Result Value Set Definition**

LOINC® code	LOINC® Long Common Name	Sequence	Answer Text	LOINC® Answer Code
53034-5	Allelic state [Finding] in Blood or Tissue by Molecular genetics method	1	Heteroplasmic	LA6703-8
		2	Homoplasmic	LA6704-6
		3	Homozygous	LA6705-3
		4	Heterozygous	LA6706-1
		5	Hemizygous	LA6707-9
48006-1	Amino acid marker type in Blood or Tissue by Molecular genetics method	1	Wild type	LA9658-1
		2	Deletion	LA6692-3
		3	Duplication	LA6686-5
		4	Frameshift	LA6694-9



LOINC® code	LOINC® Long Common Name	Sequence	Answer Text	LOINC® Answer Code
		5	Initiating Methionine	LA6695-6
		6	Insertion	LA6687-3
		7	Insertion and Deletion	LA9659-9
		8	Missense	LA6698-0
		9	Nonsense	LA6699-8
		10	Silent	LA6700-4
		11	Stop Codon Mutation	LA6701-2
48019-4	DNA marker type in Blood or Tissue by Molecular genetics method	1	Wild type	LA9658-1
		2	Deletion	LA6692-3
		3	Duplication	LA6686-5
		4	Insertion	LA6687-3
		5	Insertion/Deletion	LA6688-1
		6	Inversion	LA6689-9
		7	Substitution	LA6690-7
51964-5	Drug efficacy analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Responsive	LA6677-4
		2	Resistant	LA6676-6
		3	Negative	LA6577-6
		4	Inconclusive	LA9663-1
		5	Failure	LA9664-9
51961-1	Drug efficacy marker interpretation [interpretation] in Blood or Tissue Qualitative by Molecular genetics method	1	Resistant	LA6676-6
		2	Responsive	LA6677-4
		3	Presumed resistant	LA9660-7
		4	Presumed responsive	LA9661-5
		5	Unknown Significance	LA6682-4
		6	Benign	LA6675-8
		7	Presumed Benign	LA6674-1
		8	Presumed non-responsive	LA9662-3
51971-0	Drug metabolism analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Ultrarapid metabolizer	LA10315-2
		2	Extensive metabolizer	LA10316-0
		3	Intermediate metabolizer	LA10317-8
		4	Poor metabolizer	LA9657-3
53040-2	Drug metabolism marker interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Ultrarapid metabolizer	LA10315-2
		2	Extensive metabolizer	LA10316-0
		3	Intermediate metabolizer	LA10317-8
		4	Poor metabolizer	LA9657-3
53039-4	Genetic disease analysis overall carrier interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Carrier	LA10314-5
		2	Negative	LA6577-6
		3	Inconclusive	LA9663-1
		4	Failure	LA9664-9
51968-6	Genetic disease analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Positive	LA6576-8
		2	Negative	LA6577-6
		3	Inconclusive	LA9663-1
		4	Failure	LA9664-9
51968-6	Genetic disease analysis overall	1	Positive	LA6576-8



LOINC® code	LOINC® Long Common Name	Sequence	Answer Text	LOINC® Answer Code
	interpretation [interpretation] in Blood or Tissue by Molecular genetics method	2	Negative	LA6577-6
		3	Inconclusive	LA9663-1
		4	Failure	LA9664-9
53037-8	Genetic disease marker interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Pathogenic	LA6668-3
		2	Presumed pathogenic	LA6669-1
		3	Unknown significance	LA6682-4
		4	Benign	LA6675-8
		5	Presumed benign	LA6674-1
48002-0	Genomic source class [Type] in Blood or Tissue by Molecular genetics method	1	Germline	LA6683-2
		2	Somatic	LA6684-0
		3	Prenatal	LA6685-7

### 2.2.3.12 GENETIC DISEASE

This identifies genetic diseases.

- See Section 2.2.3.1.1 for Problems

### 2.2.3.13 MEDICATION ASSESSED IN GENETIC TEST

This identifies the medication assessed for the genetic test.

- See Section 2.2.3.3.8 for Medication Clinical Drug Name

#### 2.2.3.13.1 Gene Name

**Table 2-140 Gene Name Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.37
Name	Gene Name Value Set
Source	Human Genome Organization
URL	<a href="http://www.genenames.org/">http://www.genenames.org/</a>
Purpose	This identifies gene names
Definition	Genes are most commonly referred to by a "Symbol" (e.g., BRCA1) rather than a "Name" (e.g., breast cancer 1, early onset). Therefore, specify that the "Approved Code" must be used as the Code, and that either the "Approved Code" or the "Approved Name" can be used as the display name
Version	Unknown
Type	Extensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Gene Name
Code System Source	Human Genome Organization



### 2.2.3.13.2 Genetic Sequence Variation

**Table 2-141 Gene Sequence Variation Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.43
Name	Genetic Sequence Variation Value Set
Source	Human Genome Variation Society (HGVS)
URL	<a href="http://www.hgvs.org/mutnomen/recs.html#general">http://www.hgvs.org/mutnomen/recs.html#general</a>
Purpose	This provides description of genetic sequence variations
Definition	See <a href="http://www.hgvs.org/mutnomen/recs.html#general">http://www.hgvs.org/mutnomen/recs.html#general</a> for sequence variations
Version	Unknown
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Sequence Variation
Code System Source	Human Genome Variation Society (HGVS)

### 2.2.3.13.3 Genetic Reference Sequence

**Table 2-142 Genetic Reference Sequence Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.
Name	Genetic Reference Sequence Value Set
Source	National Center for Biotechnology Information (NCBI)
URL	<a href="http://www.ncbi.nlm.nih.gov/sites/entrez?db=nuccore">http://www.ncbi.nlm.nih.gov/sites/entrez?db=nuccore</a>
Purpose	This identifies genetic reference sequences
Definition	See <a href="http://www.ncbi.nlm.nih.gov/sites/entrez?db=nuccore">http://www.ncbi.nlm.nih.gov/sites/entrez?db=nuccore</a> for reference sequences
Version	Unknown
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Reference Sequence
Code System Source	National Center for Biotechnology Information (NCBI)

### 2.2.3.14 THIS SECTION LEFT INTENTIONAL BLANK

### 2.2.3.15 DOCUMENT METADATA

The following sections describe the value sets selected for recording document metadata in transactions used to register and exchange clinical documents. Descriptions of the value sets in this section are drawn



from the IHE IT Infrastructure Technical Framework, Volume II, Release 4.0. Only those metadata elements that require coded values are listed in this section; other fields should be provided as described in the relevant base standard.

### 2.2.3.15.1 Document Class

**Table 2-143 Document Class Value Set**

Identifier	2.16.840.1.113883.3.88.12.80.46
Name	Document Class Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This is the code specifying the particular kind of document (e.g., Prescription, Discharge Summary, Report, etc.). It is suggested that the XDS Affinity Domain draws these values from a coding scheme providing a coarse level of granularity (about 10 to 100 entries)
Definition	The Document Class value set is reproduced below in Table 2-144 Document Class Value Set Definition Note: Class code for documents comes from LOINC, and is based upon one of the following: The type of service described by the document. It is described at a very high level in Section 7.3 of the LOINC Manual The type study performed. It was determined by identifying modalities for study reports The section of the chart where the document is placed. It was determined from the SETs created for Claims Attachment requests
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc.

**Table 2-144 Document Class Value Set Definition**

Concept Code	Concept Name (LOINC Short Name)	Definition (LOINC Long Common Name)
11369-6	History of Immunization	History of Immunization
11485-0	Anesthesia Records	Anesthesia records
11486-8	Chemotherapy Records	Chemotherapy records
11488-4	Consultation note	Consult Note
11506-3	Subsequent evaluation note	Provider-unspecified progress note
11543-6	Nursery Records	Nursery records
15508-5	Labor And Delivery Records	Labor and delivery records
18726-0	Radiology Studies	Radiology studies (set)
18761-7	Transfer summarization note	Provider-unspecified transfer summary
18842-5	Discharge summarization note	Discharge summary
26436-6	Laboratory Studies	Laboratory Studies (set)
26441-6	Cardiology Studies	Cardiology studies (set)
26442-4	Obstetrical Studies	Obstetrical studies (set)
27895-2	Gastroenterology Endoscopy Studies	Gastroenterology endoscopy studies (set)
27896-0	Pulmonary Studies	Pulmonary studies (set)
27897-8	Neuromuscular Electrophysiology Studies	Neuromuscular electrophysiology studies (set)
27898-6	Pathology Studies	Pathology studies (set)
28570-0	Procedure note	Provider-unspecified procedure note
28619-5	Ophthalmology Studies	Ophthalmology/optometry studies (set)
28634-4	Miscellaneous Studies	Miscellaneous studies (set)
29749-9	Dialysis Records	Dialysis records



Concept Code	Concept Name (LOINC Short Name)	Definition (LOINC Long Common Name)
29750-7	Neonatal Intensive Care Records	Neonatal intensive care records
29751-5	Critical Care Records	Critical care records
29752-3	Perioperative Records	Perioperative records
34109-9	Evaluation and management note	Evaluation and management note
34117-2	History and physical note	Provider-unspecified, History and physical note
34121-4	Interventional procedure note	Interventional procedure note
34122-2	Pathology procedure note	Pathology procedure note
34133-9	Summarization of episode note	Summarization of episode note
34140-4	Transfer of care referral note	Transfer of care referral note
34748-4	Telephone encounter note	Telephone encounter note
34775-7	Pre-operative evaluation and management note	General surgery Pre-operative evaluation and management note
47039-3	Admission history and physical note	Inpatient Admission history and physical note
47042-7	Counseling note	Counseling note
47045-0	Study report	Study report Document
47046-8	Summary of death	Summary of death
47049-2	Communication	Non-patient Communication
57017-6	Privacy Policy	Privacy Policy Organization Document
57016-8	Privacy Policy Acknowledgment	Privacy Policy Acknowledgment Document
56445-0	Medication Summary	Medication Summary Document
53576-5	Personal health monitoring report	Personal health monitoring report Document



### 2.2.3.15.2 Document Type

**Table 2-145 Document Type Value Set**

Identifier	2.16.840.1.113883.3.88.12.80.47
Name	Document Type Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This is the code specifying the precise type of document (e.g., Pulmonary History and Physical, Discharge Summary, Ultrasound Report, etc.). It is suggested that the XDS Affinity Domain draw these values from a coding scheme providing a fine level of granularity
Definition	The Document Type value set includes all LOINC values listed in Table 2-144 Document Class Value Set Definition above used for Document Class, and all LOINC values whose SCALE is DOC in the LOINC database
Version	20091109
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc.,

### 2.2.3.15.3 Healthcare Facility Type

**Table 2-146 Healthcare Facility Type Value Set**

Identifier	2.16.840.1.113883.3.88.12.80.67
Name	Healthcare Facility Type Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This is the code representing the type of organizational setting where the clinical encounter,, service, interaction, or treatment occurred
Definition	The value set used for Healthcare Facility Type has been defined by HITSP to be the value set reproduced in Table 2-147
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	20100125
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine – UMLS

**Table 2-147 Healthcare Facility Type Value Set**

Concept Code	Concept Name
	<b>INPATIENT HEALTH FACILITY CARE</b>
82242000	Hospital-children's
225732001	Hospital-community
79993009	Hospital-government
32074000	Hospital-long term care
4322002	Hospital-military field
224687002	Hospital-prison
62480006	Hospital-psychiatric



Concept Code	Concept Name
80522000	Hospital-rehabilitation
36125001	Hospital-trauma center
48311003	Hospital-Veterans' Administration
284546000	Hospice facility
42665001	Nursing home
45618002	Skilled nursing facility
<b>HOSPITAL OUTPATIENT CLINIC-AMBULATORY CARE</b>	
418518002	Dialysis unit--hospital
73770003	Emergency department--hospital
69362002	Hospital ambulatory surgery facility
52668009	Hospital birthing center
360957003	Hospital outpatient allergy clinic
10206005	Hospital outpatient dental clinic
37550003	Hospital outpatient dermatology clinic
73644007	Hospital outpatient endocrinology clinic
31628002	Hospital outpatient family medicine clinic
58482006	Hospital outpatient gastroenterology clinic
90484001	Hospital outpatient general surgery clinic
1814000	Hospital outpatient geriatric health center
22549003	Hospital outpatient gynecology clinic
56293002	Hospital outpatient hematology clinic
360966004	Hospital outpatient immunology clinic
2849009	Hospital outpatient infectious disease clinic
14866005	Hospital outpatient mental health center
38238005	Hospital outpatient neurology clinic
56189001	Hospital outpatient obstetrical clinic
89972002	Hospital outpatient oncology clinic
78088001	Hospital outpatient ophthalmology clinic
78001009	Hospital outpatient orthopedics clinic
23392004	Hospital outpatient otorhinolaryngology clinic
36293008	Hospital outpatient pain clinic
3729002	Hospital outpatient pediatric clinic
5584006	Hospital outpatient peripheral vascular clinic
37546005	Hospital outpatient rehabilitation clinic
57159002	Hospital outpatient respiratory disease clinic
331006	Hospital outpatient rheumatology clinic
50569004	Hospital outpatient urology clinic
79491001	Hospital radiology facility
33022008	Hospital-based outpatient clinic or department--OTHER-NOT LISTED
<b>INDEPENDENT PROVIDER OF OUTPATIENT AMBULATORY CARE</b>	
19602009	Fee-for-service private physicians' group office
39350007	Private physicians' group office
83891005	Solo practice private office
394759007	Independent ambulatory care provider site--OTHER--NOT LISTED
<b>CLINIC/CENTER AMBULATORY OUTPATIENT CARE</b>	
405607001	Ambulatory surgery center
309900005	Care of the elderly day hospital
275576008	Elderly assessment clinic
10531005	Free-standing ambulatory surgery facility
91154008	Free-standing birthing center
41844007	Free-standing geriatric health center
45899008	Free-standing laboratory facility
51563005	Free-standing mental health center





Concept Code	Concept Name
1773006	Free-standing radiology facility
72311000	Health maintenance organization
6827000	Local community health center
309898008	Psychogeriatric day hospital
39913001	Residential school infirmary
77931003	Rural health center
25681007	Sexually transmitted disease health center
20078004	Substance abuse treatment center
46224007	Vaccination clinic
81234003	Walk-in clinic
35971002	Ambulatory care site--OTHER--NOT LISTED
<b>OTHER OUTPATIENT CARE SITE</b>	
11424001	Ambulance-based care
409519008	Contained casualty setting
901005	Helicopter-based care
2081004	Hospital ship
59374000	Traveler's aid clinic
<b>OTHER CARE SITE</b>	
413456002	Adult day care center
413817003	Child day care center
310205006	Private residential home
419955002	Residential institution
272501009	Sports facility
394777002	Health encounter site--NOT LISTED

#### 2.2.3.15.4 Clinical Specialty

**Table 2-148 Clinical Specialty Value Set**

Identifier	2.16.840.1.113883.3.88.12.80.72
Name	Clinical Specialty Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This is the code representing the clinical specialty of the clinician or provider who interacted with, treated, or provided a service to/for the patient
Definition	The value set used for clinical specialty has been limited by HITSP to the value set reproduced below in Table 2-149 Clinical Specialty Value Set Definition
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	20100125
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine – UMLS

**Table 2-149 Clinical Specialty Value Set Definition**

SNOMED CT ® Concept ID	Concept Name Specialty Area
408467006	Adult mental illness
394577000	Anesthetics
394578005	Audiological medicine
421661004	Blood banking and transfusion medicine
408462000	Burns care
394579002	Cardiology



SNOMED CT ® Concept ID	Concept Name Specialty Area
394804000	Clinical cytogenetics and molecular genetics
394580004	Clinical genetics
394803006	Clinical hematology
408480009	Clinical immunology
408454008	Clinical microbiology
394809005	Clinical neuro-physiology
394592004	Clinical oncology
394600006	Clinical pharmacology
394601005	Clinical physiology
394581000	Community medicine
408478003	Critical care medicine
394812008	Dental medicine specialties
408444009	Dental-General dental practice
394582007	Dermatology
408475000	Diabetic medicine
410005002	Dive medicine
394583002	Endocrinology
419772000	Family practice
394584008	Gastroenterology
408443003	General medical practice
394802001	General medicine
394915009	General pathology
394814009	General practice
394808002	Genito-urinary medicine
394811001	Geriatric medicine
408446006	Gynecological oncology
394586005	Gynecology
394916005	Hematopathology
408472002	Hepatology
394597005	Histopathology
394598000	Immunopathology
394807007	Infectious diseases
419192003	Internal medicine
408468001	Learning disability
394593009	Medical oncology
394813003	Medical ophthalmology
410001006	Military medicine
394589003	Nephrology
394591006	Neurology
394599008	Neuropathology
394649004	Nuclear medicine
408470005	Obstetrics
394585009	Obstetrics and gynecology
394821009	Occupational medicine
422191005	Ophthalmic surgery
394594003	Ophthalmology
416304004	Osteopathic manipulative medicine
418960008	Otolaryngology
394882004	Pain management
394806003	Palliative medicine
394588006	Pediatric (Child and adolescent) psychiatry
408459003	Pediatric cardiology
394607009	Pediatric dentistry
419610006	Pediatric endocrinology



SNOMED CT ® Concept ID	Concept Name Specialty Area
418058008	Pediatric gastroenterology
420208008	Pediatric genetics
418652005	Pediatric hematology
418535003	Pediatric immunology
418862001	Pediatric infectious diseases
419365004	Pediatric nephrology
418002000	Pediatric oncology
419983000	Pediatric ophthalmology
419170002	Pediatric pulmonology
419472004	Pediatric rheumatology
394539006	Pediatric surgery
420112009	Pediatric surgery-bone marrow transplantation
409968004	Preventive medicine
394587001	Psychiatry
394913002	Psychotherapy
408440000	Public health medicine
418112009	Pulmonary medicine
419815003	Radiation oncology
394914008	Radiology
408455009	Radiology-Interventional radiology
394602003	Rehabilitation
408447002	Respite care
394810000	Rheumatology
408450004	Sleep studies
408476004	Surgery-Bone and marrow transplantation
408469009	Surgery-Breast surgery
408466002	Surgery-Cardiac surgery
408471009	Surgery-Cardiothoracic transplantation
408464004	Surgery-Colorectal surgery
408441001	Surgery-Dental-Endodontics
408465003	Surgery-Dental-Oral and maxillofacial surgery
394605001	Surgery-Dental-Oral surgery
394608004	Surgery-Dental-Orthodontics
408461007	Surgery-Dental-Periodontal surgery
408460008	Surgery-Dental-Prosthetic dentistry (Prosthodontics)
408460008	Surgery-Dental-surgical-Prosthodontics
394606000	Surgery-Dentistry-Restorative dentistry
408449004	Surgery-Dentistry--surgical
394608004	Surgery-Dentistry-surgical-Orthodontics
418018006	Surgery-Dermatologic surgery
394604002	Surgery-Ear, nose and throat surgery
394609007	Surgery-general
408474001	Surgery-Hepatobiliary and pancreatic surgery
394610002	Surgery-Neurosurgery
394611003	Surgery-Plastic surgery
408477008	Surgery-Transplantation surgery
394801008	Surgery-Trauma and orthopedics
408463005	Surgery-Vascular
419321007	Surgical oncology
394576009	Surgical-Accident & emergency
394590007	Thoracic medicine
409967009	Toxicology
408448007	Tropical medicine
419043006	Urological oncology



SNOMED CT ® Concept ID	Concept Name Specialty Area
394612005	Urology
394733009	Medical specialty--OTHER--NOT LISTED
394732004	Surgical specialty--OTHER--NOT LISTED

**Table 2-150 Confidentiality Value Set**

Identifier	2.16.840.1.113883.1.11.10228
Name	Confidentiality
Source	HL7
URL	<a href="http://www.hl7.org">http://www.hl7.org</a>
Purpose	This is the code specifying the level of confidentiality of the document, which may be used by IT systems to make an authorization decision about access to the document. More than one value may be applied to any document
Definition	The value set is defined to be the entire contents of the Confidentiality Code code set defined by HL7 version 3. The value set is reproduced in Table 2-151 Confidentiality Value Set Reference Listing for convenience, but the official value set is the code set defined by HL7
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	HL7 Confidentiality Code (2.16.840.1.113883.5.25)
Code System Source	HL7

**Table 2-151 Confidentiality Value Set Reference Listing**

Concept Code	Concept Name	Definition
B	Business	Since the service class can represent knowledge structures that may be considered a trade or business secret, there is sometimes (though rarely) the need to flag those items as of business level confidentiality. However, no patient related information may ever be of this confidentiality level
D	Clinician	Only clinicians may see this item, billing and administration persons can not access this item without special permission
I	Individual	Access only to individual persons who are mentioned explicitly as actors of this service and whose actor type warrants that access (cf. to actor type code)
L	Low	No patient record item can be of low confidentiality. However, some service objects are not patient related and therefore may have low confidentiality
N	Normal	Normal confidentiality rules (according to good health care practice) apply, that is, only authorized individuals with a legitimate medical or business need may access this item
R	Restricted	Restricted access, e.g. only to providers having a current care relationship to the patient
V	Very Restricted	Very restricted access as declared by the Privacy Officer of the record holder
ETH	Substance Abuse Related	Alcohol/drug-abuse related item
HIV	HIV related	HIV and AIDS related item
PSY	Psychiatry related	Psychiatry related item
SDV	Sexual and Domestic Violence related	Sexual assault / domestic violence related item
C	Celebrity	Celebrities are people of public interest (VIP) including employees, whose information require special protection



Concept Code	Concept Name	Definition
S	Sensitive	Information for which the patient seeks heightened confidentiality. Sensitive information is not to be shared with family members. Information reported by the patient about family members is sensitive by default. Flag can be set or cleared on patient's request
T	Taboo	Information not to be disclosed or discussed with patient except through physician assigned to patient in this case. This is usually a temporary constraint only, example use is a new fatal diagnosis or finding, such as malignancy or HIV

Note: This value set contains codes that reflect several different aspects of sensitivity and confidentiality of healthcare information. Organizations may choose to restrict this value set to use values that apply only to specific aspects of sensitivity or confidentiality, but they must be prepared to receive any of these values when exchanging clinical documents with other organizations. The definitions given in this table are defined by HL7 and were in no way modified by HITSP.

## 2.2.3.15.5 Format Code

**Table 2-152 Format Code Value Set**

Identifier	2.16.840.1.113883.3.88.12.80.73
Name	Format Code Value Set
Source	Integrating the Healthcare Enterprise (IHE)
URL	<a href="http://wiki.ihe.net/index.php?title=IHE_Format_Codes">http://wiki.ihe.net/index.php?title=IHE_Format_Codes</a>
Purpose	This is the code specifying the format of the document. Along with the typeCode, it should provide sufficient information to allow any potential document consumer to know if it will be able to process the document. The code shall be sufficiently specific to ensure processing/display by identifying a document encoding, structure and template
Definition	The value set is defined to be the set of format codes defined by the IHE Patient Care Coordination Technical Framework, and also including additional format codes defined by the NHIN. The value set is listed in Table 2-153 Format Code Value Set Definition
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	N/A
Code System Name	none
Code System Source	none

**Table 2-153 Format Code Value Set Definition**

Concept Code	Concept Name
urn:ihe:pcc:xphr:2007	HL7 CCD Document
urn:ihe:pcc:aps:2007	IHE Antepartum Summary
urn:ihe:iti:xds-sd:pdf:2008	PDF embedded in CDA per XDS-SD profile
urn:ihe:iti:xds-sd:text:2008	Text embedded in CDA per XDS-SD profile
urn:ihe:pcc:xds-ms:2007	XDS Medical Summaries
urn:ihe:pcc:xphr:2007	Personal Health Records
urn:ihe:pcc:edr:2007	Emergency Department Referral (EDR)
urn:ihe:pcc:edes:2007	Emergency Department Encounter Summary (EDES)
urn:ihe:pcc:apr:handp:2008	Antepartum Record (APR) - History and Physical
urn:ihe:pcc:apr:lab:2008	Antepartum Record (APR) - Laboratory
urn:ihe:pcc:apr:edu:2008	Antepartum Record (APR) - Education
urn:ihe:pcc:irc:2008	Immunization Registry Content (IRC)
urn:ihe:pcc:crc:2008	Cancer Registry Content (CRC)
urn:ihe:pcc:cm:2008	Care Management (CM)



Concept Code	Concept Name
urn:ihe:iti:bppc:2007	Basic Patient Privacy Consents
urn:ihe:iti:bppc-sd:2007	Basic Patient Privacy Consents with Scanned Document
urn:ihe:lab:xd-lab:2008	CDA Laboratory Report
urn:nhin:names:acp:XACML	Access Consent Policy document formatted as XACML

## 2.2.3.15.6 Author Role

**Table 2-154 Author Role Value Set**

Identifier	2.16.840.1.113883.3.18.6.1.15
Name	User Role Value Set
Source	National Health Information Network (NHIN)
URL	Not Available at Publication
Purpose	This is the code specifying the role of the document author when the document was created.
Definition	The value set is defined by the NHIN Specifications Factory to the restricted set of SNOMED CT codes listed in Table 2-155 Author Role Value Set Definition
Version	20091109
Type	Extensional
Binding	Static
Status	Active
Effective Date	20091109
Expiration Date	N/A
Creation Date	20091109
Revision Date	20100125
Code System Name	SNOMED CT ®
Code System Source	National Library of Medicine – UMLS

**Table 2-155 Author Role Value Set Definition**

Concept Code	Concept Name
309418004	Audiologist
26042002	Dental Hygienist
106289002	Dentist
159033005	Dietitian
224609002	Complementary Healthcare worker
106292003	Professional nurse
405278004	Certified registered nurse anesthetist
224571005	Nurse practitioner
224570006	Clinical nurse specialist
28229004	Optometrist
46255001	Pharmacist
3842006	Chiropractor
76231001	Osteopath
112247003	Medical doctor
61207006	Medical pathologist
159034004	Podiatrist
80584001	Psychiatrist
22515006	Medical Assistant
59944000	Psychologist
106328005	Social worker
159026005	Speech therapist
307988006	Medical Technician
309428008	Orthotist
36682004	Physiotherapist
80546007	Occupational therapist
106290006	Veterinarian
397897005	Paramedic/EMT
106311007	Minister of religion AND/OR related member of religious order
106330007	Philologist, translator AND/OR interpreter



Concept Code	Concept Name
159483005	clerical occupation
224608005	Administrative healthcare staff
224546007	Infection control nurse
307785004	insurance specialist (health insurance/payor)
116154003	Patient
429577009	Patient advocate
309398001	Profession allied to medicine (non-licensed care giver)
265950004	IT Professional
271554005	law occupation
307969004	Public health officer

## 2.3 STANDARDS

### 2.3.1 REGULATORY GUIDANCE

**Table 2-156 Regulatory Guidance**

Regulation	Description
No applicable regulatory guidance	

### 2.3.2 SELECTED STANDARDS

**Table 2-157 Selected Standards**

Standard	Description
Selected Standards were moved to the dependencies section as this specification does not by itself "select" a standard; only by referencing the value sets in a data element has that function	

### 2.3.3 INFORMATIVE REFERENCE STANDARDS

**Table 2-158 Informative Reference Standards**

Standard	Description
Federal Medication Terminologies	A set of controlled terminologies and code sets developed and maintained as part of a collaboration between the Food and Drug Administration, National Library of Medicine, Veterans Health Administration, National Cancer Institute and Agency for Healthcare Research and Quality related to medications, including medication proprietary and nonproprietary names, clinical drug code (RxNorm); ingredient names and Unique Ingredient Identifiers (UNII); routes of administration, dosage forms, and units of presentation from the NCI Thesaurus (NCIt); and certain pharmacological drug classes from the National Drug File Reference Terminology (NDF-RT) The Federal Medication Terminology leverages medication models maintained by the Food and Drug Administration (ex. UNII, NDC Codes), National Library of Medicine (RxNorm), the Veterans Health Administration (NDF-RT), and the National Cancer Institute (NCIt). For more information visit <a href="http://www.cancer.gov/cancertopics/terminologyresources/page4">www.cancer.gov/cancertopics/terminologyresources/page4</a>



### 3.0 APPENDIX

The following sections include relevant materials referenced throughout this document.





## 4.0 DOCUMENT UPDATES

The following sections provide the details of updates made to this document.

### 4.1 DECEMBER 10, 2008

The changes in this construct address the following comments received during the Public Comment and Inspection Testing period (September 29 – October 24, 2008).

- 5233, 5235, 5445, 5111, 5445, 5454, 5714, 5480, 5481, 5592, 5620, 5680, 5493, 5647, 5650, 5649

#### **Global**

The following changes were applied throughout the document for consistency with the HITSP suite of Interoperability Specifications

- Removed Section 2.2.1 Data Mapping in order to improve the depth of the section and table numbering. This caused all the sections and tables to be renumbered.
- Rearranged text in section because removal of Section 2.2.1
- Rearranged various sections and tables. This affected section and table numbering but did not cause any specification changes
- Added a note explaining the harmonization of various vocabularies led by the HITSP Foundations Committee. This includes Administrative Gender, Marital Sex and Body Site
- Improved various links to Value Set Members
- Changed Static to Enumerated in Vocabulary tables based upon update to Table 2-1 Value Set Metadata
- Changed Dynamic Value Sets to Criteria Based in Vocabulary tables based upon update to Table 2-1 Value Set Metadata

#### **Figure 1.2-1 Component Document Map**

Removed figure.

#### **Section 2.1 Context Overview**

- Added text to further explain HITSP/C80
- Added table to describe the format of Value Set Definitions
- Added table to describe the format of Value Set Definitions for LOINC® values
- Added further explanation in Table 2.1-1 for Value Set Members – discussed normative published standards are the proper place to obtain vocabularies for value sets

#### **Table 2.1-1 Example Value Set Definition**

- Replaced Static/Dynamic from the table and replaced with Enumerated/Criteria Based. Also provided text to explain Enumerated and Criteria Based

#### **Section 2.2.1.1 Address Information**

##### State

- Clarified text description

##### Country

- Added table to define country code vocabulary - uses ISO 3166-1



#### **Section 2.2.1.2.8 Religious Affiliation**

- Removed table of Value Set Definitions for religious affiliation

#### **Section 2.2.2.4 Social History Type**

- Added vocabulary for Social History Type

#### **Section 2.2.3.1 Problems and Diagnoses**

##### Problems

- Deleted text that required terms descend from the clinical finding (404684003) concept

##### Diagnosis

- The Diagnosis section and ICD-9 vocabulary has been removed as it is not being referenced by other HITSP constructs.

##### Problem Severity

- Moved the Allergy/Adverse Event Severity Tables to Problem Severity. Renamed tables to Problem Severity

##### Problem Status

- Deleted Problem Status vocabulary as it has not been constrained by HITSP

##### Allergy Status

- Deleted Allergy Status vocabulary as it has not been constrained by HITSP

#### **Section 2.2.3.1.7 Functional Assessment**

- Added Functional Assessment

#### **Section 2.2.3.3.7 Medication Brand Name**

- Added requirement that the value shall descend from the RxNorm concept type of “Brand Name”

#### **Section 2.2.3.3.8 Medication Clinical Drug Name**

- Added requirement that the value shall descend from the RxNorm concept type of “clinical drug or pack”

#### **Section 2.2.3.3.9 Medication Drug Class**

- Added requirement that the value shall descend NDF-RT concept types of “Mechanism of Action”, “Physiologic Effect” or “Chemical Structure”

#### **Section 2.2.3.4.4 Allergy/Adverse Event Product**

- Deleted table and reference already defined vocabularies: Medication Ingredient Name, Medication Drug Class, and Medication Clinical Drug Name



#### **Section 2.2.3.4.6 Medication Site**

- Deleted table in Medication Site and referenced Body Site. This did not change the vocabulary chosen, but since it uses the same as Body Site it did not need to be duplicated

#### **Section 2.2.3.5 Immunizations**

##### Laboratory Test

- Deleted table in for Lab Tests as it is a duplicate with Lab Orders

##### Immunization Services Funding Eligibility

- Added table for this vocabulary

#### **Section 1.1.1.1.1 Result Normalcy Status**

- Added Value Set Table for HL7 V.2.5.1
- Added Vocabulary and Value Set Table for HL7 V3

#### **Section 2.2.3.6.5 Vital Signs Result Type**

- Added Value Set Table for Vital Signs Result Type

#### **Section 2.2.3.13 Medication Assessed in Genetic Test**

##### Single Nucleotide Polymorphisms

- Deleted Single Nucleotide Polymorphisms

##### Gene Name

- Added text which allows the Approved Code or the Approved Name to be displayed

#### **Section 2.2.3.15 Document Class**

- Changed Value Set to Enumerated

#### **Section 2.3 Standards**

- Added ISO 3166 for Country Codes
- Added CDC Implementation Guide for Immunizations Data Transaction
- Removed International Classification of Diseases ICD-9-CM
- Corrected the link to Federal Medication Terminologies
- Added International Classification of Functioning, Disability and Health (ICF)

Minor editorial changes were made to this document.

## **4.2 DECEMBER 18, 2008**

Upon approval by the HITSP Panel on December 18, 2008, this document is now Released for Implementation.

## **4.3 JUNE 30, 2009**

- Section 2.1.1 Value Set Metadata
- Updated this section to incorporate metadata definitions defined in HITSP/TN903
- Section 2.1.2 Code System Metadata



- Added this section to incorporate metadata definitions defined in HITSP/TN903
- Section 2.1.3 Value Set Member MetaData
- Added this section to incorporate metadata definitions defined in HITSP/TN903
- Section 2.1.4 Value Set Versioning
- Added this section to incorporate version process defined in HITSP/TN903
- Section 2.1.5 Component Constraints
- Updated this section to remove the table formatting
- Section 2.1.6 Component Dependencies
- Updated this section to identify code systems used by this specification using metadata defined in HITSP/TN903
- Section 2.2 Rules For Implementing Value Sets
- Updated the metadata in this section for all value sets to ensure that all metadata described in HITSP/TN903 is present for each value set. Corrected metadata for several value sets
- Section 2.3 Standards
- Updated this section to remove “selected standards”. These were moved to the dependencies section as this specification does not by itself “select” a standard; only by referencing the value sets in a data element has that function

Minor editorial changes were made to this document. Removed boilerplate text for simplification. The term “actor” was replaced with “interface”.

#### **4.4 JULY 8, 2009**

Upon approval by the HITSP Panel on July 8, 2009, this document is now Released for Implementation.

#### **4.5 NOVEMBER 9, 2009**

Added Problem Status Code (2.16.840.1.113883.3.88.12.80.68)

Added Order Control (2.16.840.1.113883.3.88.12.80.69)

Added Order Status (2.16.840.1.113883.3.88.12.80.70)

Added Order Priority (2.16.840.1.113883.3.88.12.80.71)

Added Specimen Risk (2.16.840.1.113883.3.88.12.489)

Added Specimen Type (2.16.840.1.113883.3.88.12.80.73)

Added Specimen Collection Method (2.16.840.1.113883.3.88.12.488)

Added Order Setting Type Code (2.16.840.1.113883.12.482)

Added Specimen Action Code (2.16.840.1.113883.12.65)

Updated Laboratory Order from 2.16.840.1.113883.3.88.12.80.25 to 2.16.840.1.113883.3.88.12.80.74

Updated Document Metadata Section

#### **4.6 JANUARY 18, 2010**

Updated Laboratory Order from 2.16.840.1.113883.3.88.12.80.74 to 1.3.6.1.4.1.12009.10.2.2; Value Set available from LOINC® Website.

Added Newborn Screening Order and Newborn Screening Results – Observation and Findings (1.3.6.1.4.1.12009.10.2.1) available from LOINC® Website



Vocabulary Updates to support Meaningful Use: Section 2.2.3.1.1 Problem, Section 2.2.3.1.8 Medication Brand Name, Section 2.2.3.3.8 Medication Clinical Drug Name, Section 2.2.6.1.1 Laboratory Observation Identifier (formally known as laboratory Test Results), Section 2.2.3.6.1.2 Laboratory Findings Identifier (formally known as Laboratory Observation), Section 2.2.3.6.2 Laboratory Order

Updated HL7 website link for the Health Level Seven (HL7) Version 3.0 Vocabulary.

Changes based upon Public Comments:

- 7704, 7825, 8412, 8640, 8643, 8641, 8726, 8857, 8868, 8879, 9028, 8876, 8875, 8890, 8900, 9094, 9333, 9335, 9336, 8603, 8846, 8847, 8849, 8850, 8859, 8866, 8870, 8873, 8875, 8877, 8878, 8880, 8882, 8883, 8885, 8893, 9031, 9337, 8067, 8068, 8601, 8063, 8859, 8840, 8828

The full text of the comments along with the Technical Committee's disposition can be reviewed on the [HITSP Public Web Site](#).

#### **4.7 JANUARY 25, 2010**

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

