

HITSP Clinical Document and Message Terminology Component

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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 Healthcare 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

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1.3 REFERENCE DOCUMENTS

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

Table 1-1 Reference Documents

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

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 does 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 1st.

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 www.ama-assn.org |
| Code System Identifier | 2.16.840.1.113883.6.12 |
| Code System URL | https://catalog.ama-assn.org/Catalog/cpt/cpt_home.jsp |
| 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 www.x12.org |
| Code System Identifier | 2.16.840.1.113883.6.255.1336 |
| Code System URL | http://www.x12.org/ |
| 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 www.cdc.gov |
| Code System Identifier | 2.16.840.1.113883.6.238 |
| Code System URL | http://phinivads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883.6.238&code=2133-7 |
| 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 http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm |
| Code System Identifier | 2.16.840.1.113883.6.59 |
| Code System URL | http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm |
| 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 http://www.cdc.gov/vaccines/programs/iis/stds/mvx.htm |
| Code System Identifier | 2.16.840.1.113883.6.60 |
| Code System URL | http://www.cdc.gov/vaccines/programs/iis/stds/mvx.htm |
| 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 www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf |
| Code System Version | 2.2 |
| Code System URL | http://www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf |

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 www.itl.nist.gov |
| Code System Identifier | 2.16.840.1.113883.6.92 |
| Code System URL | http://www.itl.nist.gov/fipspubs/fip5-2.htm |
| 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 www.fda.gov/cder/ndc/database/default.htm |
| Code System Identifier | 2.16.840.1.113883.6.69 |
| Code System URL | http://www.fda.gov/Drugs/InformationOnDrugs/ucm142454.htm |
| 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 www.fda.gov/oc/datacouncil/SRS.htm |
| Code System Identifier | 2.16.840.1.113883.4.9 |
| Code System URL | http://www.fda.gov/ForIndustry/DataStandards/SubstanceRegistrationSystem-UniqueIngredientIdentifierUNII/default.htm |
| 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 profiles 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 www.hl7.org |
| Code System URL | http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip |
| 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 priority 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 |
| Order Setting Type Code | Describes the care setting type associated with an order | 2.16.840.1.113883.12.482 | HL70482 |



| Code System Name | Code System Description | Code System Identifier | Code System HL7 Identifier |
|----------------------|--|-------------------------|----------------------------|
| 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 www.hl7.org |
| Code System URL | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| 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 ¹ |
|---------------------------|--|--------------------------|---|
| 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 |

¹ 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 www.genenames.org |
| Code System Identifier | 2.16.840.1.113883.6.133 |
| Code System URL | http://www.genenames.org/ |
| 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 www.hgvs.org/mutnomen/recs.html#intro |
| Code System Identifier | Not available at time of production |
| Code System URL | http://www.hgvs.org/mutnomen/recs.html#general |
| 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 www.who.int/classifications/icf/en/ |
| Code System Identifier | 2.16.840.1.113883.6.254 |
| Code System URL | http://www.who.int/classifications/icf/en/ |
| 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 www.ihtsdo.com |
| Code System Identifier | 2.16.840.1.113883.6.96 |
| Code System Source | National Library of Medicine – UMLS |
| Code System URL | http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html |
| 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 www.iso.org |
| Code System Identifier | 1.0.3166.1 |
| Code System URL | http://www.iso.org/iso/country_codes/iso_3166_code_lists.htm |
| 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 www.ietf.org/rfc/rfc4646.txt |
| Code System Identifier | 2.16.840.1.113883.6.121 |
| Code System URL | http://www.ietf.org/rfc/rfc4646.txt |
| 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 www.loinc.org |
| Code System Identifier | 2.16.840.1.113883.6.1 |
| Code System URL | http://loinc.org |
| 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 www.ncbi.nlm.nih.gov |
| Code System Identifier | Not available at time of production |
| Code System URL | http://www.ncbi.nlm.nih.gov/sites/entrez?db=nucore |
| 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 www.cancer.gov |
| Code System Identifier | 2.16.840.1.113883.3.26.1.1 |
| Code System URL | http://ncit.nci.nih.gov/ |
| 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 www.nlm.nih.gov |
| Code System Identifier | 2.16.840.1.113883.6.88 |
| Code System URL | http://www.nlm.nih.gov/research/umls/rxnorm/ |
| 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 | http://www.nubc.org |
| 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 ² |
|--------------------------|--|------------------------|---|
| Patient Discharge Status | A code indicating the discharge status of the patient (discharged to home, short-term care, left against advice, etc.) | | HITSP-FL-17 |
| Source of Admission | A code indicating the source of the admission (e.g., Referral, Transfer, etc.) | | HITSP-FL-15 |
| Type of Admission/Visit | A code indicating the priority of the admission (e.g., Emergency, Urgent, Elective, etc.) | | HITSP-FL-14 |

² 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. 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 http://www.nucc.org/index.php?option=com_content&task=view&id=14&Itemid=40</p> |
| Code System Identifier | 2.16.840.1.113883.6.101 |
| Code System URL | http://www.wpc-edi.com/taxonomy |
| 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 www.aurora.regenstrief.org</p> |
| Code System Identifier | 2.16.840.113883.6.8. |
| Code System Name | Unified Code for Units of Measure (UCUM) |
| Code System URL | http://www.regenstrief.org/medinformatics/ucum |
| 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 www.usps.com</p> |
| Code System Identifier | 2.16.840.1.113883.6.231 |
| Code System URL | http://www.usps.com/ncsc/addressinfo/addressinfomenu.htm |
| 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 www.cancer.gov/cancertopics/terminologyresources/page5 |
| Code System Identifier | 2.16.840.1.113883.3.26.1.5 |
| Code System Source | Veterans Health Administration |
| Code System URL | http://evs.nci.nih.gov/ftp1/NDF-RT |
| 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 | http://www.itl.nist.gov/fipspubs/fip5-2.htm |
| 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) ³ |
| 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 |

³ 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 | http://zip4.usps.com/zip4/welcome.jsp |
| 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. Note: This table provides the ISO 3166-1 code elements available in the alpha-2 code of ISO's country code standard |
| URL | http://www.iso.org/iso/iso-3166-1_decoding_table |
| 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.⁴

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.

⁴ 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 | http://phinivads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883.6.238&code=2133-7 |
| 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.⁵

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 | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| 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 |

⁵ 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 | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| 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 | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| 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, 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 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 | http://phinivads.cdc.gov/vads/ViewCodeSystemConcept.action?oid=2.16.840.1.113883.6.238&code=1000-9 |
| 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 | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| 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 | http://www.ietf.org/rfc/rfc4646.txt |
| 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 | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| 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 | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| 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 | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| 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 | 20100129 |
| Expiration Date | N/A |
| Creation Date | 20081218 |
| Revision Date | 20100129 |
| 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 |
| 105421008 | Educational Achievement | Not available | Level of Educational Attainment |



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® |
| 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 | http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip |
| 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 | http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip |
| Purpose | Problems and Diagnosis |



| Element | Description |
|--------------------|--|
| 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 |
| 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 |
| 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 ⁶ |
| Version | 20081218 |

⁶ 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>.



| Element | Description |
|--------------------|-------------------------------------|
| 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 |

Table 2-70 Problem Status Value Set Definition⁷

| 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) |

⁷ 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.



2.2.3.2 BODY SITE

2.2.3.2.1 Body Site⁸

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 |

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 |

⁸ 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.



| Element | Description |
|--------------------|---|
| 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 | http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/ucm162038.htm |
| 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 |
| 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 | http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/ucm162034.htm |
| 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 | http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip |
| 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 |
| 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 |



| Element | Description |
|--------------------|---------------------------------------|
| 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 http://www.cancer.gov/cancertopics/terminologyresources/page5 |
| Version | 20081218 |



| Element | Description |
|--------------------|---|
| 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 | http://www.fda.gov/cder/ndc/database/default.htm |
| 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 | http://www.fda.gov/ForIndustry/DataStandards/StructuredProductLabeling/ucm162523.htm |
| Purpose | This identifies drug ingredients, such as Gentian violet |
| Definition | Unique identifiers for active drug ingredient |
| Version | Unknown |
| Type | Intensional |
| Binding | Dynamic |
| Status | Active |



| Element | Description |
|--------------------|-------------------------------------|
| 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 "iAmpicillin 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 |



| Element | Description |
|--------------------|--|
| 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 | http://www.cdc.gov/vaccines/programs/iis/stds/cvx.htm |
| 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 | http://www.cdc.gov/vaccines/programs/iis/stds/mvx.htm |
| 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 |
| 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 | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| 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 | www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf |
| 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) |



| Element | Description |
|--------------------|---|
| 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 | www.cdc.gov/vaccines/programs/iis/stds/downloads/hl7guide.pdf |
| Purpose | Identifies the Immunization Service Funding Eligibility assigned to the patient for the purpose of identifying sources of reimbursement |
| 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 |



| Element | Description |
|--------------------|--|
| 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 IdentifierValue 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 |



| Element | Description |
|--------------------|------------------------------------|
| 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 | http://loinc.org/usage |
| 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 | http://www.hl7.org/memonly/downloads/v3edition.cfm#V32008 |
| Purpose | A rough qualitative interpretation of the observation, such as "normal", "abnormal", "below normal", "change up", "resistant", "susceptible", etc. |
| Definition | The HL7 ObservationInterpretation has been reproduced below in Table 2-98 V3 Result Normalcy Value Set Definition |
| Version | V3NE08 |
| Type | Extensional |
| Binding | Static |
| Status | Active |



| Element | Description |
|--------------------|---|
| 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 |
| 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 ³ |

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 | http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip |
| 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 cancelled | 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 |



| Element | Description |
|--------------------|---|
| 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 | http://www.regenstrief.org/medinformatics/ucum |
| Purpose | This identifies the measured units |
| 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 http://aurora.regenstrief.org/~ucum/ucum.html#datyp2apdxatblxmp |
| 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 |



| Element | Description |
|--------------------|---|
| 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 |
| 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 |



| Element | Description |
|--------------------|--|
| 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 cancelled | 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 | http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip |
| 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 | http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip |
| 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 |



| Element | Description |
|--------------------|--|
| 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 | http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip |
| 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 |



| Concept Code | Concept Name | Definition |
|--------------|---------------------------|---------------|
| 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 | http://www.hl7.org/Memonly/downloads/Standards_Messaging_v251/HL7_Messaging_v251_PDF.zip |
| 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 |



| 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 | 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 |
| LVN | 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 |



| Concept Code | Concept Name | Definition |
|--------------|--------------------------------|---------------|
| 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 |
| 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 | http://newbornscreeningcodes.nlm.nih.gov/nb/sc/constructingNBSHL7messages |
| 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 | http://newbornscreeningcodes.nlm.nih.gov/nb/sc/constructingNBSHL7messages |
| 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 |



| Element | Description |
|--------------------|--|
| 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 |



| Element | Description |
|--------------------|--|
| Status | Active |
| Effective Date | 20100129 |
| Expiration Date | N/A |
| Creation Date | 20081218 |
| Revision Date | 20100129 |
| 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 |
| MP | Medical Home 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 http://www.nucc.org/index.php?option=com_content&task=view&id=14&Itemid=40</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 |
| | 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 |



| Concept Code | Concept Name | Definition |
|--------------|--|---|
| | 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 |
| | 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 healthcare 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 healthcare providers who supply healthcare 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 healthcare 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 |



| Concept Code | Concept Name | Definition |
|--------------|-----------------------|--|
| | 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 | www.nubc.org |
| 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 | www.nubc.org |
| 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 |



| Element | Description |
|--------------------|---|
| 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 | www.nubc.org |
| 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 DIRECTIVE

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 | http://www.nlm.nih.gov/research/umls/Snomed/snomed_main.html |
| 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 |



| Element | Description |
|--------------------|------------------------------|
| Version | 1.0 |
| Type | Extensional |
| Binding | Static |
| 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 |
| 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 |



| Concept Code | Concept Name (LOINC® Short Name) | Definition (LOINC® Long Common Name) |
|--------------|--|--|
| 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 |
| 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 |



| LOINC® code | LOINC® Long Common Name | Sequence | Answer Text | LOINC® Answer Code |
|-------------|--|----------|--------------------------|--------------------|
| 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 |
| | | 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 | 1 | Positive | LA6576-8 |
| | | 2 | Negative | LA6577-6 |



| LOINC® code | LOINC® Long Common Name | Sequence | Answer Text | LOINC® Answer Code |
|-------------|--|----------|----------------------|--------------------|
| | Tissue by Molecular genetics method | 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 |
| 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 | http://www.genenames.org/ |
| 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 | http://www.hgvs.org/mutnomen/recs.html#general |
| Purpose | This provides description of genetic sequence variations |
| Definition | See http://www.hgvs.org/mutnomen/recs.html#general 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 | http://www.ncbi.nlm.nih.gov/sites/entrez?db=nucore |
| Purpose | This identifies genetic reference sequences |
| Definition | See http://www.ncbi.nlm.nih.gov/sites/entrez?db=nucore 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 |
| 29750-7 | Neonatal Intensive Care Records | Neonatal intensive care records |



| Concept Code | Concept Name (LOINC Short Name) | Definition (LOINC Long Common Name) |
|--------------|--|--|
| 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 |
|---------------------------------------|-------------------------|
| INPATIENT HEALTH FACILITY CARE | |
| 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 |
| 80522000 | Hospital-rehabilitation |



| Concept Code | Concept Name |
|---|--|
| 36125001 | Hospital-trauma center |
| 48311003 | Hospital-Veterans' Administration |
| 284546000 | Hospice facility |
| 42665001 | Nursing home |
| 45618002 | Skilled nursing facility |
| HOSPITAL OUTPATIENT CLINIC-AMBULATORY CARE | |
| 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 |
| INDEPENDENT PROVIDER OF OUTPATIENT AMBULATORY CARE | |
| 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 |
| CLINIC/CENTER AMBULATORY OUTPATIENT CARE | |
| 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 |
| 1773006 | Free-standing radiology facility |
| 72311000 | Health maintenance organization |



| Concept Code | Concept Name |
|-----------------------------------|--|
| 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 |
| OTHER OUTPATIENT CARE SITE | |
| 11424001 | Ambulance-based care |
| 409519008 | Contained casualty setting |
| 901005 | Helicopter-based care |
| 2081004 | Hospital ship |
| 59374000 | Traveler's aid clinic |
| OTHER CARE SITE | |
| 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 |
| 394804000 | Clinical cytogenetics and molecular genetics |
| 394580004 | Clinical genetics |



| SNOMED CT ® Concept ID | Concept Name Specialty Area |
|------------------------|---|
| 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 |
| 418058008 | Pediatric gastroenterology |
| 420208008 | Pediatric genetics |
| 418652005 | Pediatric hematology |



| SNOMED CT ® Concept ID | Concept Name Specialty Area |
|------------------------|--|
| 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 |
| 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 | http://www.hl7.org |
| 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 healthcare 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 |
| 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 |



| Concept Code | Concept Name | Definition |
|--------------|--------------|--|
| 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 | http://wiki.ihe.net/index.php?title=IHE_Format_Codes |
| 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) |
| 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 | Nationwide 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 |
| 159483005 | Clerical occupation |
| 224608005 | Administrative healthcare staff |
| 224546007 | Infection control nurse |
| 307785004 | Insurance specialist (health insurance/payor) |
| 116154003 | Patient |
| 429577009 | Patient advocate |



| Concept Code | Concept Name |
|--------------|---|
| 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 www.cancer.gov/cancertopics/terminologyresources/page4 |



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 2.2.3.6.3 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 Data Architecture
- 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 Data Architecture 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 Web site 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.

4.8 JANUARY 31, 2010

Updated Section 2.2.2.4 Social History Type. – Addition of Educational Achievement

Updated Section 2.2.3.8.1 Provider Role –Addition of Medical Home Provider

