

HITSP Clinical Document and Message Terminology Component

HITSP/C80



Healthcare Information Technology Standards Panel

Submitted to:

Healthcare Information Technology Standards Panel

Submitted by:

Care Management and Health Records Domain Technical Committee



DOCUMENT CHANGE HISTORY

Version Number	Description of Change	Name of Author	Date Published
	Template Updated to V2.4	Project Team	July 31, 2008
0.0.1	Review Copy	Care Management and Health Records Domain Technical Committee	September 26, 2008
0.0.2	Review Copy	Care Management and Health Records Domain Technical Committee	December 10, 2008
1.0	Released for Implementation	Care Management and Health Records Domain Technical Committee	December 18, 2008
	Template V2.5	Project Team	June 30, 2009
1.0.1	Review Copy	Care Management and Health Records Domain Technical Committee and Data Architecture Tiger Team	June 30, 2009
1.1	Released for Implementation	Care Management and Health Records Domain Technical Committee and Data Architecture Tiger Team	July 8, 2009



TABLE OF CONTENTS

1.0	INTRODUCTION	7
1.1	Overview	7
1.2	Copyright Permissions.....	7
1.3	Reference Documents.....	7
1.4	Conformance	7
1.4.1	Conformance Criteria	7
1.4.2	Conformance Scoping, Subsetting and Options	8
2.0	COMPONENT DEFINITION.....	9
2.1	Context Overview	9
2.1.1	Value Set Metadata	9
2.1.2	Code System Metadata	11
2.1.3	Value Set Member Metadata.....	12
2.1.4	Value Set Versioning	13
2.1.5	Component Constraints.....	14
2.1.6	Component Dependencies	14
2.2	Rules For Implementing Value Sets	24
2.2.1	General Information Value Sets	25
2.2.2	Administration and Financial Value Sets.....	32
2.2.3	Care Management and Health Record Value Sets	36
2.3	Standards	85
2.3.1	Regulatory Guidance.....	85
2.3.2	Selected Standards	85
2.3.3	Informative Reference Standards.....	86
3.0	APPENDIX	87
4.0	DOCUMENT UPDATES	88
4.1	December 10, 2008	88
4.2	December 18, 2008	90
4.3	June 30, 2009.....	90
4.4	July 8, 2009	91



FIGURES AND TABLES

Table 1-1 Reference Documents	7
Table 2-1 Value Set Metadata	9
Table 2-2 Code System Metadata	11
Table 2-3 Value Set Member Metadata	13
Table 2-4 Code Systems from American Medical Association	14
Table 2-5 Code Systems from Accredited Standards Committee X12.....	15
Table 2-6 Code Systems from Centers for Disease Control and Prevention	15
Table 2-7 Code Systems from Centers for Disease Control and Prevention	15
Table 2-8 Code Systems from Centers for Disease Control and Prevention	16
Table 2-9 Code Systems from Centers for Disease Control and Prevention	16
Table 2-10 Metadata for Code Systems from Centers for Disease Control and Prevention.....	16
Table 2-11 Code Systems from Federal Information Processing Standards Publication 5-2	17
Table 2-12 Code Systems from Food and Drug Administration	17
Table 2-13 Code Systems from Food and Drug Administration	17
Table 2-14 Code Systems from Health Level Seven V2	18
Table 2-15 Metadata for Code Systems for Health Level Seven V2	18
Table 2-16 Code Systems from Health Level Seven V3	18
Table 2-17 Metadata for Code Systems from Health Level Seven V3	18
Table 2-18 Code Systems from Human Genome Organization	19
Table 2-19 Code Systems from Human Genome Variation Society.....	20
Table 2-20 Code Systems from World Health Organization.....	20
Table 2-21 Code Systems from International Health Terminology Standards Development Organisation.....	20
Table 2-22 Code Systems from International Organization for Standardization	21
Table 2-21 Code Systems from Internet Engineering Task Force.....	21
Table 2-22 Code Systems from Regenstrief Institute, Inc	21
Table 2-23 Code Systems from National Center for Biotechnology Information	22
Table 2-24 Code Systems from National Cancer Institute.....	22
Table 2-25 Code Systems from National Library of Medicine	22
Table 2-26 Code Systems from National Uniform Billing Committee	23
Table 2-14 Metadata for Code Systems from National Uniform Billing Committee.....	23
Table 2-27 Code Systems from National Uniform Claim Committee.....	23
Table 2-28 Code Systems from Regenstrief Institute, Inc.	24
Table 2-29 Code Systems from United States Postal Service	24
Table 2-30 Code Systems from U.S. Veterans Health Administration	24
Table 2-31 State Value set.....	25
Table 2-32 Postal Code Value Set.....	25
Table 2-33 Country Value Set.....	26
Table 2-34 Administrative Gender Value Set.....	27
Table 2-35 Administrative Gender Value Set Definition	27
Table 2-36 Ethnicity Value Set.....	27
Table 2-37 Marital Status Value Set	28
Table 2-38 Marital Status Value Set Definition	28
Table 2-39 Personal Relationship Value Set	29
Table 2-40 Family Relation Type Value Set	29
Table 2-41 Contact Type Value Set.....	30
Table 2-42 Contact Type Value Set Definition.....	30
Table 2-43 Race Value Set.....	30
Table 2-44 Religious Affiliation Value Set.....	31
Table 2-45 Language Value Set	31
Table 2-46 Language Ability Value Set.....	32
Table 2-47 Language Ability Mode Set Definition.....	32



Table 2-48 Health Insurance Type Value Set	33
Table 2-49 Health Insurance Type Value Set Definition	33
Table 2-50 Subscriber Relationship Value Set	34
Table 2-51 Subscriber Relationship Value Set Definition	35
Table 2-52 Financially Responsible Party Type Value Set	35
Table 2-53 Social History Type Value Set	35
Table 2-54 Social History Type Set Definition	36
Table 2-55 Problem Value Set	36
Table 2-56 Problem Type Value Set	37
Table 2-57 Problem Type Value Set Definition	37
Table 2-58 Diagnosis Type Value Set	38
Table 2-59 Diagnosis Type Value Set Definition	38
Table 2-60 Diagnosis Priority Value Set	38
Table 2-61 Diagnosis Priority Value Set Definition	39
Table 2-62 Nursing Diagnosis Value Set	39
Table 2-63 Problem Severity Value Set	39
Table 2-64 Problem Severity Value Set Definition	40
Table 2-65 Functional Assessment Value Set	40
Table 2-66 Body Site Value Set	41
Table 2-67 Medication Fill Status Value Set	41
Table 2-68 Medication Fill Status Value Set Definition	42
Table 2-69 Medication Product Form Value Set	42
Table 2-70 Medication Route FDA Value Set	43
Table 2-71 V2 Medication Route Value Set	43
Table 2-72 Medication Type Value Set	44
Table 2-73 Medication Type Value Set Definition	44
Table 2-74 Medication Brand Name Value Set	44
Table 2-75 Medication Clinical Drug Name Value Set	45
Table 2-76 Medication Drug Class Value Set	45
Table 2-77 Medication Packaged Product Value Set	46
Table 2-78 Ingredient Name Value Set	46
Table 2-79 Medication Vehicle Value Set	47
Table 2-80 Allergy/Adverse Event Type Value Set	47
Table 2-81 Allergy/Adverse Event Type Value Set Definition	48
Table 2-82 Vaccine Administered Value Set	49
Table 2-83 Vaccine Manufacturer Value Set	49
Table 2-84 No Immunization Reason Value Set	50
Table 2-85 No Immunization Reason Value Set Definition	50
Table 2-86 Immunization Information Source Value Set	50
Table 2-87 Immunization Information Source Value Set Definition	51
Table 2-88 Immunization Service Funding Eligibility Value Set	51
Table 2-89 Laboratory Tests Result Value Set	52
Table 2-90 Laboratory Test Result Identifier Value Set Definition	52
Table 2-91 Laboratory Observation Value Set	65
Table 2-92 Laboratory Order Value Set	65
Table 2-93 V3 Result Normalcy Status Value Set	66
Table 2-94 V3 Result Normalcy Value Set Definition	66
Table 2-95 V2 Result Status Code System	67
Table 2-96 V2 Result Status Value Set Definition	68
Table 2-97 V3 Result Status Value Set	68
Table 2-98 V3 Result Status Value Set Definition	69
Table 2-99 Vital Sign Result Value Set	69
Table 2-100 Vital Sign Result Value Set Definition	70
Table 2-101 Unit of Measure Code System	70



Table 2-102 Procedure Value Set.....	70
Table 2-103 Provider Role Value Set	71
Table 2-104 Provider Role Value Set Definition	71
Table 2-105 Provider Type Value Set.....	72
Table 2-106 Provider Type Value Set Definition.....	72
Table 2-107 Admission Source Value Set	73
Table 2-108 Admission Type Value Set.....	73
Table 2-109 Encounter Type Value Set.....	74
Table 2-110 Discharge Disposition Value Set	74
Table 2-111 Patient Class Value Set	75
Table 2-112 V3 Patient Class Value Set Definition	75
Table 2-113 Advance Directive Type Value Set	76
Table 2-114 Advance Directive Type Value Set Definition	76
Table 2-115 Genetic Test Result Value Set.....	76
Table 2-116 Genetic Test Result Identifier Value Set Definition.....	77
Table 2-117 Genetic Test Result Value Set.....	78
Table 2-118 Genetic Test Result Value Set Definition	79
Table 2-119 Gene Name Value Set.....	81
Table 2-120 Gene Sequence Variation Value Set.....	81
Table 2-121 Genetic Reference Sequence Value Set.....	82
Table 2-122 Document Class Value Set.....	82
Table 2-123 Document Class Value Set Definition.....	83
Table 2-124 Document Type Value Set.....	84
Table 2-125 Practice Setting Value Set	84
Table 2-126 Practice Setting Value Set Definition	85
Table 2-127 Informative Reference Standards	86



1.0 INTRODUCTION

1.1 OVERVIEW

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

1.2 COPYRIGHT PERMISSIONS

COPYRIGHT NOTICE

© 2009 ANSI. This material may be copied without permission from ANSI only if and to the extent that the text is not altered in any fashion and ANSI's copyright is clearly noted.

Certain materials contained in this Interoperability Specification are reproduced from HL7 Version 3 Standard: Core Principals with permission of Health Level Seven, Inc. No part of the material may be copied or reproduced in any form outside of the Interoperability Specification documents, including an electronic retrieval system, or made available on the Internet without the prior written permission of Health Level Seven, Inc. Copies of standards included in this Interoperability Specification may be purchased from the Health Level Seven, Inc. Material drawn from these standards is credited where used.

1.3 REFERENCE DOCUMENTS

This section provides a list of key reference documents and background material.

A list of key reference documents and background material is provided in the table below. These documents can be retrieved from www.hitsp.org.

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, 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 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 to claim conformance.



2.0 COMPONENT DEFINITION

2.1 CONTEXT OVERVIEW

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

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

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

2.1.1 VALUE SET METADATA

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

Table 2-1 Value Set Metadata

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

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

2.1.1.1 VALUE SET IDENTIFIER

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



2.1.1.2 VALUE SET NAME

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

2.1.1.3 VALUE SET SOURCE

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

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

2.1.1.4 VALUE SET URL

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

2.1.1.5 VALUE SET PURPOSE

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

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

2.1.1.6 VALUE SET DEFINITION

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

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

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

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



2.1.1.7 VALUE SET VERSION

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

2.1.1.8 VALUE SET TYPE

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

2.1.1.9 VALUE SET BINDING

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

2.1.1.10 VALUE SET STATUS

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

2.1.1.11 VALUE SET EFFECTIVE DATE AND VALUE SET EXPIRATION DATE

Some value sets are updated on a routine cycle. These value sets will have an effective and expiration date describing when the value set should be used. For example, value sets based on ICD-9 CM could be updated between July and September to make the implementers ready for the next fiscal year starting on October 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 IS 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 Systems 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 Systems 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 Systems 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 Systems 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 Systems 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 Systems 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 Systems 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 Systems 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 Systems 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 Systems 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 Systems from Health Level Seven V2

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

Table 2-16 Code Systems 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 Systems 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

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.



Code System Name	Code System Description	Code System Identifier	Code System HL7 Identifier ¹
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

Table 2-18 Code Systems 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 Systems 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 Systems 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 Systems from International Health Terminology Standards Development Organisation

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 Systems 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 Systems 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 Systems 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 Systems 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=nuccore
Code System HL7 Identifier	NCBI-NUCLEOTIDE
Code System Version	Build 3.62 or later

Table 2-26 Code Systems 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 Systems 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 Systems 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 Systems 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, et cetera)		HITSP-FL-17
Source of Admission	A code indicating the source of the admission (e.g., Referral, Transfer, et cetera)		HITSP-FL-15
Type of Admission/Visit	A code indicating the priority of the admission (e.g., Emergency, Urgent, Elective, et cetera)		HITSP-FL-14

Table 2-30 Code Systems from National Uniform Claim Committee

Element	Description
Code System Source	National Uniform Claim Committee (NUCC)
Code System Name	Healthcare Provider Taxonomy
Code System Description	<p>The Health Care Provider Taxonomy code set is an external, nonmedical data code set designed for use in an electronic environment, specifically within the ASC X12N Health Care Transactions. This includes the transactions mandated under HIPAA</p> <p>The Health Care Provider Taxonomy code is a unique alphanumeric code, ten characters in length. The code set is structured into three distinct "Levels" including Provider Type, Classification, and Area of Specialization</p> <p>The National Uniform Claim Committee (NUCC) is presently maintaining the code set. It is used in transactions specified in HIPAA and the National Provider Identifier (NPI) application for enumeration. Effective 2001, the NUCC took over the administration of the code set. Ongoing duties, including processing taxonomy code requests and maintenance of the code set, fall under the NUCC Code Subcommittee</p> <p>For more information visit 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

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 2-31 Code Systems 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	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
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 Systems from United States Postal Service

Element	Description
Code System Source	United States Postal Service (USPS)
Code System Name	Postal Codes
Code System Description	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
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 Systems 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, 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

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

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.



Element	Description
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.
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

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 2-37 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

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



Element	Description
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 person⁵.

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

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

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



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



2.2.1.2.6 Contact Type

Table 2-44 Contact Type Value Set

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

Table 2-45 Contact Type Value Set Definition

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

2.2.1.2.7 Race

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



Element	Description
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



Element	Description
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
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



Concept Code	Concept Name & Definition
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.
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
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



Element	Description
Purpose	This indicates the type of social history observation
Definition	The SNOMED CT® has been limited by HITSP to the value set reproduced below in Table 2-57 Social History Type Set Definition.
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	SNOMED CT®
Code System Source	National Library of Medicine – UMLS

Table 2-57 Social History Type Set Definition

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

2.2.3 CARE MANAGEMENT AND HEALTH RECORD VALUE SETS

2.2.3.1 PROBLEMS AND DIAGNOSES

2.2.3.1.1 Problem

Table 2-58 Problem Value Set

Element	Description
Identifier	2.16.840.1.113883.3.88.12.3221.7.4
Name	Problem Value Set
Source	Veterans Administration/Kaiser Permanente (VA/KP)
URL	http://evs.nci.nih.gov/ftp1/FDA/ProblemList/
Purpose	Problems and Diagnosis
Definition	See VA/KP Problem List Subset of SNOMED CT® This describes the problem. Diagnosis/Problem List is broadly defined as a series of brief statements that catalog a patient's medical, nursing, dental, social, preventative and psychiatric events and issues that are relevant to that patient's healthcare (e.g., signs, symptoms, and defined conditions)
Version	20081203
Type	Extensional
Binding	Dynamic
Status	Active



Element	Description
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	20090331
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
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



Element	Description
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



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	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
Type	Intensional
Binding	Dynamic
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A

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>.



2.2.3.2 BODY SITE

2.2.3.2.1 Body Site⁷

Table 2-69 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 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	N/A
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 2-70 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 2-71 Medication Fill Status Value Set Definition This identifies whether the medication has been fulfilled, such as completed and aborted
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218

⁷ 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
Revision Date	N/A
Code System Name	Act Status
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

Table 2-71 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 2-72 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 2-73 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 2-74 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 2-75 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 2-76 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 2-76 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 2.2.3.2 Body Site

2.2.3.3.7 Medication Brand Name

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

Table 2-77 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)
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	RxNorm
Code System Source	National Library of Medicine - RxNorm

2.2.3.3.8 Medication Clinical Drug Name

Table 2-78 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=IN (selecting the ingredient names) or TTY=GPCK (selecting the generic packs)
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	RxNorm
Code System Source	National Library of Medicine - RxNorm

2.2.3.3.9 Medication Drug Class

Table 2-79 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 2-80 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 2-81 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



Element	Description
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Unique Ingredient Identifier (UNII)
Code System Source	Food and Drug Administration (FDA)

2.2.3.3.12 Medication Vehicle

Table 2-82 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

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 2-83 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



Element	Description
Purpose	This describes the type of product and intolerance suffered by the patient
Definition	The SNOMED CT® has been limited by HITSP to the value set reproduced below in Table 2-84 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

Table 2-84 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 2-85 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 2-86 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 2-87 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 2-88 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 2-88 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 2-89 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



Element	Description
Purpose	This identifies the source of information for this immunization record or, more generically, whether the immunization being reported has just been administered (new) or came from other records (historical)
Definition	See NIP Table 001 in Appendix 1 in CDC Implementation Guide for Immunization Data Transactions and the table is reproduced in Table 2-90 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 2-90 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 2-91 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



Element	Description
Creation Date	20060625
Revision Date	N/A
Revision Date	20060625
Code System Name	Immunization Service Funding Eligibility
Code System Source	Implementation Guide for Immunizations Data Transaction using Versions 2.3.1 of the Health Level Seven (HL7) Standard Protocol

2.2.3.6 MEASUREMENTS AND LABORATORY RESULTS

2.2.3.6.1 Laboratory Observation

This identifies laboratory results.

2.2.3.6.1.1 Laboratory Test Result

Table 2-92 Laboratory Tests Result Value Set

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.40
Name	Laboratory Test Result 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: are used in HEDIS measures category A/B/C bioterrorism agents/diseases (need help here) Public Health jurisdiction and Federal reportable disease conditions The Laboratory value set is reproduced below in Table 2-93 Laboratory Test Result Identifier Value Set Definition This material is drawn from the HEDIS 2008 Electronic Coding Tables specification
Version	20081218
Type	Enumerated
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 2-93 Laboratory Test Result Identifier Value Set Definition

Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
34530-6	ABO + Rh Pnl Bld	ABO & Rh group panel in Blood
883-9	ABO Group Bld	ABO group [Type] in Blood
882-1	ABO+Rh Gp Bld	ABO & Rh group [Type] in Blood
884-7	ABO+Rh Gp BldC	ABO & Rh group [Type] in Capillary blood
11218-5	Microalbumin Ur Test Str-mCnc	Microalbumin [Mass/volume] in Urine by Test strip
14956-7	Microalbumin 24H Ur-mRate	Microalbumin [Mass/time] in 24 hour Urine



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
14957-5	Microalbumin Ur-mCnc	Microalbumin [Mass/volume] in Urine
1753-3	Albumin Ur QI	Albumin [Presence] in Urine
1754-1	Albumin Ur-mCnc	Albumin [Mass/volume] in Urine
1755-8	Albumin 24H Ur-mRate	Albumin [Mass/time] in 24 hour Urine
21059-1	Albumin 24H Ur-mCnc	Albumin [Mass/volume] in 24 hour Urine
30003-8	Microalbumin 24H Ur-mCnc	Microalbumin [Mass/volume] in 24 hour Urine
43605-5	Microalbumin 4H Ur-mCnc	Microalbumin [Mass/volume] in 4 hour Urine
43606-3	Microalbumin 4H Ur-mRate	Microalbumin [Mass/time] in 4 hour Urine
43607-1	Microalbumin 12H Ur-mRate	Microalbumin [Mass/time] in 12 hour Urine
1757-4	Albumin Cl 24H Ur+SerPI-vRate	Albumin renal clearance in 24 hour
13705-9	Albumin/creat 24H Ur-mRto	Albumin/Creatinine [Mass ratio] in 24 hour Urine
14958-3	Microalbumin/creat 24H Ur-mRto	Microalbumin/Creatinine [Mass ratio] in 24 hour Urine
14959-1	Microalbumin/creat Ur-mRto	Microalbumin/Creatinine [Mass ratio] in Urine
20621-9	Albumin/creat Ur QI Strip	Albumin/Creatinine [Presence] in Urine by Test strip
30000-4	Microalbumin/creat Ur-Rto	Microalbumin/Creatinine [Ratio] in Urine
30001-2	Microalbumin/creat Ur Test Str-Rto	Microalbumin/Creatinine [Ratio] in Urine by Test strip
32294-1	Albumin/creat Ur-Rto	Albumin/Creatinine [Ratio] in Urine
44292-1	Microalbumin/creat 12H Ur-mRto	Microalbumin/Creatinine [Mass ratio] in 12 hour Urine
9318-7	Albumin/creat Ur-mRto	Albumin/Creatinine [Mass ratio] in Urine
15019-3	AFP Amn-sCnc	Alpha-1-Fetoprotein [Molecules/volume] in Amniotic Fluid
1832-5	AFP Amn-mCnc	Alpha-1-Fetoprotein [Mass/volume] in Amniotic Fluid
1834-1	AFP SerPI-mCnc	Alpha-1-Fetoprotein [Mass/volume] in Serum or Plasma
19171-8	AFP Amn-aCnc	Alpha-1-Fetoprotein [Units/volume] in Amniotic Fluid
19176-7	AFP SerPI-aCnc	Alpha-1-Fetoprotein [Units/volume] in Serum or Plasma
19177-5	AFP SerPI-sCnc	Alpha-1-Fetoprotein [Molecules/volume] in Serum or Plasma
31993-9	AFP SerPI QI	Alpha-1-Fetoprotein [Presence] in Serum or Plasma
626-2	Bacteria Throat Cult	Bacteria identified in Throat by Culture
24321-2	Bas Metab HCFA 2000 Pnl SerPI	Basic metabolic HCFA 2000 panel in Serum or Plasma
24320-4	Bas Metab HCFA 1998 Pnl SerPI	Basic metabolic HCFA 1998 panel in Serum or Plasma
14639-9	Carbamazepine SerPI-sCnc	Carbamazepine [Molecules/volume] in Serum or Plasma
3432-2	Carbamazepine SerPI-mCnc	Carbamazepine [Mass/volume] in Serum or Plasma
18270-9	Carbamazepine EP SerPI-sCnc	Carbamazepine 10,11-Epoxyde [Molecules/volume] in Serum or Plasma
9415-1	Carbamazepine EP SerPI-mCnc	Carbamazepine 10,11-Epoxyde [Mass/volume] in Serum or Plasma
29147-6	Carbamazepine EP Bnd SerPI-mCnc	Carbamazepine 10,11-Epoxyde.bound [Mass/volume] in Serum or Plasma
14056-6	Carbamazepine EP Free SerPI-mCnc	Carbamazepine 10,11-epoxyde free [Mass/volume] in Serum or Plasma
34545-4	Carbamazepine free+Total Pnl SerPI-mCnc	Carbamazepine free & total panel [Mass/volume] in Serum or Plasma
29148-4	Carbamazepine Bnd SerPI-mCnc	Carbamazepine.bound [Mass/volume] in Serum or Plasma
32058-0	Carbamazepine free SerPI-sCnc	Carbamazepine free [Molecules/volume] in Serum or Plasma
3433-0	Carbamazepine free SerPI-mCnc	Carbamazepine free [Mass/volume] in Serum or Plasma
32852-6	Carbamazepine free Fr SerPI	Carbamazepine free/Carbamazepine total in Serum or Plasma
34718-7	CFTR Mut Anal Amn	CFTR gene mutations found [Identifier] in Amniotic Fluid by Molecular genetics method Nominal
557-9	Chlamydia Genital Cult	Chlamydia sp identified in Genital specimen by Organism specific culture



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
560-3	Chlamydia XXX Cult	Chlamydia sp identified in Unspecified specimen by Organism specific culture
14463-4	C trach Cervix QI Cult	Chlamydia trachomatis [Presence] in Cervix by Organism specific culture
14464-2	C trach Vag QI Cult	Chlamydia trachomatis [Presence] in Vaginal fluid by Organism specific culture
14467-5	C trach UrnS QI Cult	Chlamydia trachomatis [Presence] in Urine sediment by Organism specific culture
6349-5	C trach XXX QI Cult	Chlamydia trachomatis [Presence] in Unspecified specimen by Organism specific culture
14470-9	C trach Ag Cervix QI EIA	Chlamydia trachomatis Ag [Presence] in Cervix by Immunoassay
14471-7	C trach Ag Vag QI EIA	Chlamydia trachomatis Ag [Presence] in Vaginal fluid by Immunoassay
14474-1	C trach Ag UrnS QI EIA	Chlamydia trachomatis Ag [Presence] in Urine sediment by Immunoassay
14509-4	C trach Ag Cervix QI IF	Chlamydia trachomatis Ag [Presence] in Cervix by Immunofluorescence
14510-2	C trach Ag Vag QI IF	Chlamydia trachomatis Ag [Presence] in Vaginal fluid by Immunofluorescence
14513-6	C trach Ag UrnS QI IF	Chlamydia trachomatis Ag [Presence] in Urine sediment by Immunofluorescence
31771-9	C trach Ag Cervix QI	Chlamydia trachomatis Ag [Presence] in Cervix
31772-7	C trach Ag Vag QI	Chlamydia trachomatis Ag [Presence] in Vaginal fluid
31775-0	C trach Ag UrnS QI	Chlamydia trachomatis Ag [Presence] in Urine sediment
31777-6	C trach Ag XXX QI	Chlamydia trachomatis Ag [Presence] in Unspecified specimen
6354-5	C trach Ag XXX QI EIA	Chlamydia trachomatis Ag [Presence] in Unspecified specimen by Immunoassay
6355-2	C trach Ag XXX QI IF	Chlamydia trachomatis Ag [Presence] in Unspecified specimen by Immunofluorescence
21189-6	C trach DNA Cerv mucus QI PCR	Chlamydia trachomatis DNA [Presence] in Cervical mucus by Probe & target amplification method
21190-4	C trach DNA Cervix QI PCR	Chlamydia trachomatis DNA [Presence] in Cervix by Probe & target amplification method
21191-2	C trach DNA Urth QI PCR	Chlamydia trachomatis DNA [Presence] in Urethra by Probe & target amplification method
21613-5	C trach DNA XXX QI PCR	Chlamydia trachomatis DNA [Presence] in Unspecified specimen by Probe & target amplification method
43404-3	C trach DNA XXX QI bDNA	Chlamydia trachomatis DNA [Presence] in Unspecified specimen by Probe & signal amplification method
6356-0	C trach DNA Genital QI PCR	Chlamydia trachomatis DNA [Presence] in Genital specimen by Probe & target amplification method
6357-8	C trach DNA Ur QI PCR	Chlamydia trachomatis DNA [Presence] in Urine by Probe & target amplification method
16600-9	C trach rRNA Genital QI Prb	Chlamydia trachomatis rRNA [Presence] in Genital specimen by DNA probe
16601-7	C trach rRNA Ur QI Prb	Chlamydia trachomatis rRNA [Presence] in Urine by DNA probe
21192-0	C trach rRNA Urth QI Prb	Chlamydia trachomatis rRNA [Presence] in Urethra by DNA probe
23838-6	C trach rRNA Genital fl QI Prb	Chlamydia trachomatis rRNA [Presence] in Genital fluid by DNA probe
42931-6	C trach rRNA Ur QI PCR DL=50	Chlamydia trachomatis rRNA [Presence] in Urine by Probe & target amplification method detection limit = 50 iU/mL
43304-5	C trach rRNA XXX QI PCR	Chlamydia trachomatis rRNA [Presence] in Unspecified specimen by Probe & target amplification method
4993-2	C trach rRNA XXX QI Prb	Chlamydia trachomatis rRNA [Presence] in Unspecified specimen by DNA probe
36902-5	C trach+GC DNA XXX QI PCR	Chlamydia trachomatis+Neisseria gonorrhoeae DNA [Presence] in Unspecified specimen by Probe & target amplification method
36903-3	C trach+GC DNA XXX PCR	Chlamydia trachomatis+Neisseria gonorrhoeae DNA [Identifier] in Unspecified specimen by Probe & target amplification method



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
43406-8	C trach+GC DNA XXX QI bDNA	Chlamydia trachomatis+Neisseria gonorrhoeae DNA [Presence] in Unspecified specimen by Probe & signal amplification method
12773-8	LDLc SerPI Elph-aCnc	Cholesterol.in LDL [Units/volume] in Serum or Plasma by Electrophoresis
13457-7	LDLc SerPI Calc-mCnc	Cholesterol.in LDL [Mass/volume] in Serum or Plasma by Calculation
18261-8	LDLc SerPI.Ultracent-mCnc	Cholesterol.in LDL [Mass/volume] in Serum or Plasma ultracentrifugate
18262-6	LDLc SerPI Direct Assay-mCnc	Cholesterol.in LDL [Mass/volume] in Serum or Plasma by Direct assay
2089-1	LDLc SerPI-mCnc	Cholesterol.in LDL [Mass/volume] in Serum or Plasma
22748-8	LDLc SerPI-sCnc	Cholesterol.in LDL [Molecules/volume] in Serum or Plasma
39469-2	LDLc SerPI Calc-sCnc	Cholesterol.in LDL [Molecules/volume] in Serum or Plasma by Calculation
49132-4	LDLc SerPI Elph-mCnc	Cholesterol.in LDL [Mass/volume] in Serum or Plasma by Electrophoresis
19080-1	HCG SerPI-aCnc	Choriogonadotropin [Units/volume] in Serum or Plasma
20994-0	HCG SerPI-Imp	Choriogonadotropin [interpretation] in Serum or Plasma
2106-3	HCG Ur QI	Choriogonadotropin [Presence] in Urine
2107-1	HCG Ur-sCnc	Choriogonadotropin [Molecules/volume] in Urine
2118-8	HCG SerPI QI	Choriogonadotropin [Presence] in Serum or Plasma
2119-6	HCG SerPI-sCnc	Choriogonadotropin [Molecules/volume] in Serum or Plasma
25372-4	HCG Ur-aCnc	Choriogonadotropin [Units/volume] in Urine
34670-0	HCG SerPI-mCnc	Choriogonadotropin [Mass/volume] in Serum or Plasma
20415-6	B-HCG SerPI EIA 3rd IS-aCnc	Choriogonadotropin.beta subunit [Units/volume] in Serum or Plasma by Immunoassay (EIA) 3rd IS
2110-5	B-HCG SerPI QI	Choriogonadotropin.beta subunit [Presence] in Serum or Plasma
2111-3	B-HCG SerPI-sCnc	Choriogonadotropin.beta subunit [Molecules/volume] in Serum or Plasma
2112-1	B-HCG Ur QI	Choriogonadotropin.beta subunit [Presence] in Urine
2113-9	B-HCG 24H Ur-mRate	Choriogonadotropin.beta subunit [Mass/time] in 24 hour Urine
2114-7	B-HCG Ur-sCnc	Choriogonadotropin.beta subunit [Molecules/volume] in Urine
21198-7	B-HCG SerPI-aCnc	Choriogonadotropin.beta subunit [Units/volume] in Serum or Plasma
19180-9	B-HCG Free SerPI-aCnc	Choriogonadotropin.beta subunit free [Units/volume] in Serum or Plasma
2115-4	B-HCG Free SerPI-sCnc	Choriogonadotropin.beta subunit free [Molecules/volume] in Serum or Plasma
25373-2	B-HCG Free SerPI-mCnc	Choriogonadotropin.beta subunit free [Mass/volume] in Serum or Plasma
24323-8	Comp Metab HCFA 2000 Pnl SerPI	Comprehensive metabolic HCFA 2000 panel in Serum or Plasma
24322-0	Comp Metab HCFA 1998 Pnl SerPI	Comprehensive metabolic HCFA 1998 panel in Serum or Plasma
14682-9	Creat SerPI-sCnc	Creatinine [Molecules/volume] in Serum or Plasma
21232-4	Creat BldA-mCnc	Creatinine [Mass/volume] in Arterial blood
2160-0	Creat SerPI-mCnc	Creatinine [Mass/volume] in Serum or Plasma
38483-4	Creat Bld-mCnc	Creatinine [Mass/volume] in Blood
34555-3	Creat Cl Pnl Ur+SerPI	Creatinine renal clearance panel
13441-1	Creat Cl 4H Ur+SerPI-vRate	Creatinine renal clearance in 4 hour
13442-9	Creat Cl 6H Ur+SerPI-vRate	Creatinine renal clearance in 6 hour
13443-7	Creat Cl 8H Ur+SerPI-vRate	Creatinine renal clearance in 8 hour
2163-4	Creat Cl 12H Ur+SerPI-vRate	Creatinine renal clearance in 12 hour
2164-2	Creat Cl 24H Ur+SerPI-vRate	Creatinine renal clearance in 24 hour
26752-6	Creat Cl 2H Ur+SerPI-vRate	Creatinine renal clearance in 2 hour
33558-8	Creat Cl ?Tm Ur+SerPI-vRate	Creatinine renal clearance in unspecified time
35591-7	Creat Cl predicted SerPI C-G-vRate	Creatinine renal clearance predicted by Cockcroft-Gault formula



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
12195-4	Creat Cl/BSA 24H Ur+SerPI-vRate	Creatinine renal clearance/1.73 sq M in 24 hour
13446-0	Creat Cl/BSA 4H Ur+SerPI-vRate	Creatinine renal clearance/1.73 sq M in 4 hour
13447-8	Creat Cl/BSA 6H Ur+SerPI-vRate	Creatinine renal clearance/1.73 sq M in 6 hour
13449-4	Creat Cl/BSA 8H Ur+SerPI-vRate	Creatinine renal clearance/1.73 sq M in 8 hour
13450-2	Creat Cl/BSA 12H Ur+SerPI-vRate	Creatinine renal clearance/1.73 sq M in 12 hour
35593-3	Creat Cl/BSA ?Tm Ur+SerPI-vRate	Creatinine renal clearance/1.73 sq M in unspecified time
35594-1	Creat Cl/BSA 2H Ur+SerPI-vRate	Creatinine renal clearance/1.73 sq M in 2 hour
35592-5	Creat Cl/BSA.pred SerPI C-G-vRate	Creatinine renal clearance/1.73 sq M.predicted by Cockcroft-Gault formula, BSA formula
16188-5	Creat 2H spec SerPI-mCnc	Creatinine [Mass/volume] in Serum or Plasma --2 hour specimen
16189-3	Creat 4H spec SerPI-mCnc	Creatinine [Mass/volume] in Serum or Plasma --4 hour specimen
11041-1	Creat p dialysis SerPI-mCnc	Creatinine [Mass/volume] in Serum or Plasma --post dialysis
11042-9	Creat pre dial SerPI-mCnc	Creatinine [Mass/volume] in Serum or Plasma --pre dialysis
47527-7	Cytology Cvx/Vag Doc Thin Prep	Cytology report [Finding] of Cervical or vaginal smear or scraping Cyto stain.thin prep
19774-9	Cytology Cmnt Cvx/Vag Cyto-Imp	Cytology study comment Cervical or vaginal smear or scraping Cyto stain
15377-5	CMV Ab Ser QI LA	Cytomegalovirus Ab [Presence] in Serum by Latex agglutination
16714-8	CMV Ab Ser LA-aCnc	Cytomegalovirus Ab [Units/volume] in Serum by Latex agglutination
22239-8	CMV Ab Ser QI	Cytomegalovirus Ab [Presence] in Serum
22241-4	CMV Ab Titr Ser	Cytomegalovirus Ab [Titer] in Serum
32170-3	CMV Ab Titr Ser IF	Cytomegalovirus Ab [Titer] in Serum by Immunofluorescence
5121-9	CMV Ab Titr Ser LA	Cytomegalovirus Ab [Titer] in Serum by Latex agglutination
5122-7	CMV Ab Ser IF-aCnc	Cytomegalovirus Ab [Units/volume] in Serum by Immunofluorescence
7851-9	CMV Ab Ser-aCnc	Cytomegalovirus Ab [Units/volume] in Serum
9513-3	CMV Ab Titr Ser CF	Cytomegalovirus Ab [Titer] in Serum by Complement fixation
34403-6	CMV Ab Avidity Ser-aCnc	Cytomegalovirus Ab avidity [Units/volume] in Serum
13949-3	CMV IgG Ser QI EIA	Cytomegalovirus IgG Ab [Presence] in Serum by Immunoassay
16715-5	CMV IgG Ser IF-aCnc	Cytomegalovirus IgG Ab [Units/volume] in Serum by Immunofluorescence
22244-8	CMV IgG Ser QI	Cytomegalovirus IgG Ab [Presence] in Serum
22246-3	CMV IgG Titr Ser	Cytomegalovirus IgG Ab [Titer] in Serum
5124-3	CMV IgG Ser EIA-aCnc	Cytomegalovirus IgG Ab [Units/volume] in Serum by Immunoassay
5125-0	CMV IgG Titr Ser IF	Cytomegalovirus IgG Ab [Titer] in Serum by Immunofluorescence
7852-7	CMV IgG Ser-aCnc	Cytomegalovirus IgG Ab [Units/volume] in Serum
13225-8	CMV IgG sp1 Ser-aCnc	Cytomegalovirus IgG Ab [Units/volume] in Serum --1st specimen
32791-6	CMV IgG 1:2 Ser EIA-Rto	Cytomegalovirus IgG Ab [Ratio] in Serum by Immunoassay --1st specimen/2nd specimen
32835-1	CMV IgG 1:2 Ser-Rto	Cytomegalovirus IgG Ab [Ratio] in Serum --1st specimen/2nd specimen
16716-3	CMV IgG sp2 Ser EIA-aCnc	Cytomegalovirus IgG Ab [Units/volume] in Serum by Immunoassay --2nd specimen
22247-1	CMV IgG sp2 Ser-aCnc	Cytomegalovirus IgG Ab [Units/volume] in Serum --2nd specimen
22249-7	CMV IgM Titr Ser	Cytomegalovirus IgM Ab [Titer] in Serum
24119-0	CMV IgM Ser QI EIA	Cytomegalovirus IgM Ab [Presence] in Serum by Immunoassay
30325-5	CMV IgM Ser QI	Cytomegalovirus IgM Ab [Presence] in Serum
5126-8	CMV IgM Ser EIA-aCnc	Cytomegalovirus IgM Ab [Units/volume] in Serum by Immunoassay
5127-6	CMV IgM Titr Ser IF	Cytomegalovirus IgM Ab [Titer] in Serum by Immunofluorescence



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
7853-5	CMV IgM Ser-aCnc	Cytomegalovirus IgM Ab [Units/volume] in Serum
34554-6	Lytes HCFA 1998 + Ven pH Pnl	Electrolytes HCFA 1998 & Venous pH panel
24326-1	Lytes HCFA 1998 Pnl SerPl	Electrolytes HCFA 1998 panel in Serum or Plasma
20403-2	Fibronectin Fetal Vag-mCnc	Fibronectin.fetal [Mass/volume] in Vaginal fluid
20404-0	Fibronectin Fetal Vag Ql	Fibronectin.fetal [Presence] in Vaginal fluid
19762-4	Gen Categ Cvx/Vag Cyto-Imp	General categories [interpretation] in Cervical or vaginal smear or scraping by Cyto stain
17856-6	Hgb A1c Fr Bld HPLC	Hemoglobin A1c (glycated HgB)/Hemoglobin.total in Blood by HPLC
4548-4	Hgb A1c Fr Bld	Hemoglobin A1c (glycated HgB)/Hemoglobin.total in Blood
4549-2	Hgb A1c Fr Bld Elph	Hemoglobin A1c (glycated HgB)/Hemoglobin.total in Blood by Electrophoresis
2335-8	Hemocult Stl Ql	Hemoglobin.gastrointestinal [Presence] in Stool
27396-1	Hemocult Stl-mCnt	Hemoglobin.gastrointestinal [Mass/mass] in Stool
29771-3	Occult Bld Stl Ql Imm	Hemoglobin.gastrointestinal [Presence] in Stool by Immunologic method
14563-1	Hemocult sp1 Stl Ql	Hemoglobin.gastrointestinal [Presence] in Stool --1st specimen
14564-9	Hemocult sp2 Stl Ql	Hemoglobin.gastrointestinal [Presence] in Stool --2nd specimen
14565-6	Hemocult sp3 Stl Ql	Hemoglobin.gastrointestinal [Presence] in Stool --3rd specimen
12503-9	Hemocult sp4 Stl Ql	Hemoglobin.gastrointestinal [Presence] in Stool --4th specimen
12504-7	Hemocult sp5 Stl Ql	Hemoglobin.gastrointestinal [Presence] in Stool --5th specimen
27401-9	Hemocult sp6 Stl Ql	Hemoglobin.gastrointestinal [Presence] in Stool --6th specimen
27925-7	Hemocult sp7 Stl Ql	Hemoglobin.gastrointestinal [Presence] in Stool --7th specimen
27926-5	Hemocult sp8 Stl Ql	Hemoglobin.gastrointestinal [Presence] in Stool --8th specimen
13324-9	HSV1 Ab Ser IF-aCnc	Herpes simplex virus 1 Ab [Units/volume] in Serum by Immunofluorescence
25837-6	HSV1 Ab Titr Ser IF	Herpes simplex virus 1 Ab [Titer] in Serum by Immunofluorescence
43031-4	HSV1 Ab Titr Ser	Herpes simplex virus 1 Ab [Titer] in Serum
43111-4	HSV1 Ab Ser Ql	Herpes simplex virus 1 Ab [Presence] in Serum
5205-0	HSV1 Ab Ser EIA-aCnc	Herpes simplex virus 1 Ab [Units/volume] in Serum by Immunoassay
7908-7	HSV1 Ab Ser-aCnc	Herpes simplex virus 1 Ab [Units/volume] in Serum
17850-9	HSV1 IgG Ser Ql	Herpes simplex virus 1 IgG Ab [Presence] in Serum
33291-6	HSV1 IgG Ser Ql IB	Herpes simplex virus 1 IgG Ab [Presence] in Serum by Immunoblot (IB)
5206-8	HSV1 IgG Ser EIA-aCnc	Herpes simplex virus 1 IgG Ab [Units/volume] in Serum by Immunoassay
7909-5	HSV1 IgG Ser-aCnc	Herpes simplex virus 1 IgG Ab [Units/volume] in Serum
16949-0	HSV1 IgG sp1 Ser-aCnc	Herpes simplex virus 1 IgG Ab [Units/volume] in Serum --1st specimen
32831-0	HSV1 IgG 1:2 Ser EIA-Rto	Herpes simplex virus 1 IgG Ab [Ratio] in Serum by Immunoassay --1st specimen/2nd specimen
32846-8	HSV1 IgG 1:2 Ser-Rto	Herpes simplex virus 1 IgG Ab [Ratio] in Serum --1st specimen/2nd specimen
16950-8	HSV1 IgG sp2 Ser-aCnc	Herpes simplex virus 1 IgG Ab [Units/volume] in Serum --2nd specimen
21326-4	HSV1 IgM Titr Ser	Herpes simplex virus 1 IgM Ab [Titer] in Serum
32687-6	HSV1 IgM Ser Ql	Herpes simplex virus 1 IgM Ab [Presence] in Serum
40466-5	HSV1 IgM Ser Ql IF	Herpes simplex virus 1 IgM Ab [Presence] in Serum by Immunofluorescence
5207-6	HSV1 IgM Ser EIA-aCnc	Herpes simplex virus 1 IgM Ab [Units/volume] in Serum by Immunoassay
7910-3	HSV1 IgM Ser-aCnc	Herpes simplex virus 1 IgM Ab [Units/volume] in Serum
42337-6	HSV1 gG IgG Ser-aCnc	Herpes simplex virus 1 glycoprotein G IgG Ab [Units/volume] in Serum
13505-3	HSV1+2 Ab pattern Ser-Imp	Herpes simplex virus 1+2 Ab pattern [interpretation] in Serum
27948-9	HSV1+2 IgG Ser EIA-aCnc	Herpes simplex virus 1+2 IgG Ab [Units/volume] in Serum by Immunoassay



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
31411-2	HSV1+2 IgG Ser-aCnc	Herpes simplex virus 1+2 IgG Ab [Units/volume] in Serum
34613-0	HSV1+2 IgG Titr Ser	Herpes simplex virus 1+2 IgG Ab [Titer] in Serum
36921-5	HSV1+2 IgG Ser QI	Herpes simplex virus 1+2 IgG Ab [Presence] in Serum
30355-2	HSV1+2 IgM Ser QI IF	Herpes simplex virus 1+2 IgM Ab [Presence] in Serum by Immunofluorescence
34152-9	HSV1+2 IgM Titr Ser	Herpes simplex virus 1+2 IgM Ab [Titer] in Serum
41149-6	HSV1+2 IgM Ser QI	Herpes simplex virus 1+2 IgM Ab [Presence] in Serum
41399-7	HSV1+2 IgM Ser EIA-aCnc	Herpes simplex virus 1+2 IgM Ab [Units/volume] in Serum by Immunoassay
43030-6	HSV1+2 IgM Ser-aCnc	Herpes simplex virus 1+2 IgM Ab [Units/volume] in Serum
13323-1	HSV2 Ab Ser IF-aCnc	Herpes simplex virus 2 Ab [Units/volume] in Serum by Immunofluorescence
16954-0	HSV2 Ab Ser QI	Herpes simplex virus 2 Ab [Presence] in Serum
25839-2	HSV2 Ab Titr Ser IF	Herpes simplex virus 2 Ab [Titer] in Serum by Immunofluorescence
43028-0	HSV2 Ab Titr Ser	Herpes simplex virus 2 Ab [Titer] in Serum
5208-4	HSV2 Ab Ser EIA-aCnc	Herpes simplex virus 2 Ab [Units/volume] in Serum by Immunoassay
7911-1	HSV2 Ab Ser-aCnc	Herpes simplex virus 2 Ab [Units/volume] in Serum
13501-2	HSV2 Ab pattern Ser-Imp	Herpes simplex virus 2 Ab pattern [interpretation] in Serum
16955-7	HSV2 IgG Ser QI IB	Herpes simplex virus 2 IgG Ab [Presence] in Serum by Immunoblot (IB)
17851-7	HSV2 IgG Ser QI	Herpes simplex virus 2 IgG Ab [Presence] in Serum
24014-3	HSV2 IgG Titr Ser	Herpes simplex virus 2 IgG Ab [Titer] in Serum
5209-2	HSV2 IgG Ser EIA-aCnc	Herpes simplex virus 2 IgG Ab [Units/volume] in Serum by Immunoassay
7912-9	HSV2 IgG Ser-aCnc	Herpes simplex virus 2 IgG Ab [Units/volume] in Serum
16957-3	HSV2 IgG sp1 Ser-aCnc	Herpes simplex virus 2 IgG Ab [Units/volume] in Serum --1st specimen
32790-8	HSV2 IgG 1:2 Ser EIA-Rto	Herpes simplex virus 2 IgG Ab [Ratio] in Serum by Immunoassay --1st specimen/2nd specimen
32834-4	HSV2 IgG 1:2 Ser-Rto	Herpes simplex virus 2 IgG Ab [Ratio] in Serum --1st specimen/2nd specimen
16958-1	HSV2 IgG sp2 Ser-aCnc	Herpes simplex virus 2 IgG Ab [Units/volume] in Serum --2nd specimen
21327-2	HSV2 IgM Titr Ser	Herpes simplex virus 2 IgM Ab [Titer] in Serum
26927-4	HSV2 IgM Titr Ser IF	Herpes simplex virus 2 IgM Ab [Titer] in Serum by Immunofluorescence
32688-4	HSV2 IgM Ser QI	Herpes simplex virus 2 IgM Ab [Presence] in Serum
5210-0	HSV2 IgM Ser EIA-aCnc	Herpes simplex virus 2 IgM Ab [Units/volume] in Serum by Immunoassay
7913-7	HSV2 IgM Ser-aCnc	Herpes simplex virus 2 IgM Ab [Units/volume] in Serum
42338-4	HSV2 gG IgG Ser-aCnc	Herpes simplex virus 2 glycoprotein G IgG Ab [Units/volume] in Serum
22339-6	HSV Ab Ser QI	Herpes simplex virus Ab [Presence] in Serum
22341-2	HSV Ab Titr Ser	Herpes simplex virus Ab [Titer] in Serum
5202-7	HSV Ab Ser EIA-aCnc	Herpes simplex virus Ab [Units/volume] in Serum by Immunoassay
5203-5	HSV Ab Ser LA-aCnc	Herpes simplex virus Ab [Units/volume] in Serum by Latex agglutination
5204-3	HSV Ab Titr Ser CF	Herpes simplex virus Ab [Titer] in Serum by Complement fixation
7907-9	HSV Ab Ser-aCnc	Herpes simplex virus Ab [Units/volume] in Serum
19106-4	HSV IgG Ser QI	Herpes simplex virus IgG Ab [Presence] in Serum
40728-8	HSV IgG Ser QI EIA	Herpes simplex virus IgG Ab [Presence] in Serum by Immunoassay
9422-7	HSV IgG Ser-aCnc	Herpes simplex virus IgG Ab [Units/volume] in Serum
10350-7	HSV IgM Titr Ser EIA	Herpes simplex virus IgM Ab [Titer] in Serum by Immunoassay
14213-3	HSV IgM Titr Ser IF	Herpes simplex virus IgM Ab [Titer] in Serum by Immunofluorescence
16944-1	HSV IgM Ser-aCnc	Herpes simplex virus IgM Ab [Units/volume] in Serum
22343-8	HSV IgM Titr Ser	Herpes simplex virus IgM Ab [Titer] in Serum



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
25435-9	HSV IgM Ser QI	Herpes simplex virus IgM Ab [Presence] in Serum
40729-6	HSV IgM Ser QI EIA	Herpes simplex virus IgM Ab [Presence] in Serum by Immunoassay
17398-9	HPV11 Ag XXX QI	Human papilloma virus 11 Ag [Presence] in Unspecified specimen
17399-7	HPV16 Ag XXX QI	Human papilloma virus 16 Ag [Presence] in Unspecified specimen
12223-4	HPV16+18 Ag Genital QI	Human papilloma virus 16+18 Ag [Presence] in Genital specimen
14503-7	HPV16+18 Ag Cervix QI	Human papilloma virus 16+18 Ag [Presence] in Cervix
14504-5	HPV16+18 Ag Vag QI	Human papilloma virus 16+18 Ag [Presence] in Vaginal fluid
14506-0	HPV16+18 Ag Urth QI	Human papilloma virus 16+18 Ag [Presence] in Urethra
17400-3	HPV16+18 Ag XXX QI	Human papilloma virus 16+18 Ag [Presence] in Unspecified specimen
30167-1	HPV I/H Risk 1 DNA Cervix QI bDNA	Human papilloma virus 16+18+31+33+35+39+45+51+52+56+58+59+68 DNA [Presence] in Cervix by Probe & signal amplification method
21440-3	HPV I/H Risk DNA Cervix QI Prb	Human papilloma virus 16+18+31+33+35+45+51+52+56 DNA [Presence] in Cervix by DNA probe
17401-1	HPV18 Ag XXX QI	Human papilloma virus 18 Ag [Presence] in Unspecified specimen
17402-9	HPV31 Ag XXX QI	Human papilloma virus 31 Ag [Presence] in Unspecified specimen
17403-7	HPV31+33+35 Ag XXX QI	Human papilloma virus 31+33+35 Ag [Presence] in Unspecified specimen
17404-5	HPV33 Ag XXX QI	Human papilloma virus 33 Ag [Presence] in Unspecified specimen
17405-2	HPV42 Ag XXX QI	Human papilloma virus 42 Ag [Presence] in Unspecified specimen
17406-0	HPV43 Ag XXX QI	Human papilloma virus 43 Ag [Presence] in Unspecified specimen
17407-8	HPV44 Ag XXX QI	Human papilloma virus 44 Ag [Presence] in Unspecified specimen
17408-6	HPV45 Ag XXX QI	Human papilloma virus 45 Ag [Presence] in Unspecified specimen
17409-4	HPV5 Ag XXX QI	Human papilloma virus 5 Ag [Presence] in Unspecified specimen
17410-2	HPV51 Ag XXX QI	Human papilloma virus 51 Ag [Presence] in Unspecified specimen
17411-0	HPV6 Ag XXX QI	Human papilloma virus 6 Ag [Presence] in Unspecified specimen
17412-8	HPV6+11 Ag XXX QI	Human papilloma virus 6+11 Ag [Presence] in Unspecified specimen
38372-9	HPV DNA Cervix QI bDNA	Human Papilloma Virus 6+11+16+18+31+33+35+39+42+43+44+45+51+52+56+58+59+68 DNA [Presence] in Cervix by Probe & signal amplification method
21441-1	HPV Low Risk DNA Cervix QI Prb	Human papilloma virus 6+11+42+43+44 DNA [Presence] in Cervix by DNA probe
42481-2	HPV Low Risk DNA Cervix QI bDNA	Human papilloma virus 6+11+42+43+44 DNA [Presence] in Cervix by Probe & signal amplification method
6510-2	HPV Ab Genital QI EIA	Human papilloma virus Ab [Presence] in Genital specimen by Immunoassay
6511-0	HPV Ab Genital QI IB	Human papilloma virus Ab [Presence] in Genital specimen by Immunoblot (IB)
7975-6	HPV Ab Genital QI	Human papilloma virus Ab [Presence] in Genital specimen
10705-2	HPV Ag Tiss QI ImStn	Human papilloma virus Ag [Presence] in Tissue by Immune stain
12222-6	HPV Ag Genital QI	Human papilloma virus Ag [Presence] in Genital specimen
14499-8	HPV Ag Cervix QI	Human papilloma virus Ag [Presence] in Cervix
14500-3	HPV Ag Vag QI	Human papilloma virus Ag [Presence] in Vaginal fluid
14502-9	HPV Ag Urth QI	Human papilloma virus Ag [Presence] in Urethra
16280-0	HPV DNA XXX QI Amp Prb	Human papilloma virus DNA [Presence] in Unspecified specimen by Probe with amplification
11083-3	HPV Cervix	Human papilloma virus identified in Cervix
11481-9	HPV XXX	Human papilloma virus identified in Unspecified specimen
6514-4	HPV rRNA Genital QI PCR	Human papilloma virus rRNA [Presence] in Genital specimen by Probe & target amplification method



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
6516-9	HPV rRNA XXX QI PCR	Human papilloma virus rRNA [Presence] in Unspecified specimen by Probe & target amplification method
33773-3	Karyotyp Amn	Karyotype [Identifier] in Amniotic Fluid Nominal
34656-9	KEL gene Mut Anal Amn	KEL gene mutations found [Identifier] in Amniotic Fluid by Molecular genetics method Narrative
10368-9	Lead BldC-mCnc	Lead [Mass/volume] in Capillary blood
10912-4	Lead SerPl-mCnc	Lead [Mass/volume] in Serum or Plasma
14807-2	Lead Bld-sCnc	Lead [Molecules/volume] in Blood
17052-2	Lead Bld QI	Lead [Presence] in Blood
25459-9	Lead SerPl-sCnc	Lead [Molecules/volume] in Serum or Plasma
27129-6	Lead RBC-mCnt	Lead [Mass/mass] in Red Blood Cells
32325-3	Lead RBC-sCnc	Lead [Molecules/volume] in Red Blood Cells
5671-3	Lead Bld-mCnc	Lead [Mass/volume] in Blood
5674-7	Lead RBC-mCnc	Lead [Mass/volume] in Red Blood Cells
24331-1	Lipid HCFA 1996 Pnl SerPl	Lipid HCFA 1996 panel in Serum or Plasma
35457-1	Maternal Cell Contam Amn	Maternal cell contamination [Identifier] in Amniotic Fluid Nominal
34535-5	Microalbumin/Creat ratio pnl Ur	Microalbumin/Creatinine ratio panel in Urine
10524-7	Cyto Cervix	Microscopic observation [Identifier] in Cervix by Cyto stain
18500-9	Thin Prep Cervix	Microscopic observation [Identifier] in Cervix by Cyto stain.thin prep
19765-7	Cyto Cvx/Vag	Microscopic observation [Identifier] in Cervical or vaginal smear or scraping by Cyto stain
19766-5	Cyto Cvx/Vag	Microscopic observation [Identifier] in Cervical or vaginal smear or scraping by Cyto stain
660-1	Dark Field XXX	Microscopic observation [Identifier] in Unspecified specimen by Dark field examination
688-2	N gonorrhoea Cervix QI Cult	Neisseria gonorrhoeae [Presence] in Cervix by Organism specific culture
690-8	N gonorrhoea Endometrium QI Cult	Neisseria gonorrhoeae [Presence] in Endometrium by Organism specific culture
691-6	N gonorrhoea Genital QI Cult	Neisseria gonorrhoeae [Presence] in Genital specimen by Organism specific culture
692-4	N gonorrhoea Gen lochia QI Cult	Neisseria gonorrhoeae [Presence] in Genital lochia by Organism specific culture
693-2	N gonorrhoea Vag QI Cult	Neisseria gonorrhoeae [Presence] in Vaginal fluid by Organism specific culture
698-1	N gonorrhoea XXX QI Cult	Neisseria gonorrhoeae [Presence] in Unspecified specimen by Organism specific culture
29311-8	N gonorrhoea Ag XXX QI IF	Neisseria gonorrhoeae Ag [Presence] in Unspecified specimen by Immunofluorescence
31905-3	N gonorrhoea Ag Genital QI	Neisseria gonorrhoeae Ag [Presence] in Genital specimen
31906-1	N gonorrhoea Ag XXX QI	Neisseria gonorrhoeae Ag [Presence] in Unspecified specimen
6487-3	N gonorrhoea Ag Genital QI EIA	Neisseria gonorrhoeae Ag [Presence] in Genital specimen by Immunoassay
6488-1	N gonorrhoea Ag Genital QI IF	Neisseria gonorrhoeae Ag [Presence] in Genital specimen by Immunofluorescence
6489-9	N gonorrhoea Ag Genital QI LA	Neisseria gonorrhoeae Ag [Presence] in Genital specimen by Latex agglutination
21414-8	N gonorrhoea DNA Cerv mucus QI PCR	Neisseria gonorrhoeae DNA [Presence] in Cervical mucus by Probe & target amplification method
21415-5	N gonorrhoea DNA Urth QI PCR	Neisseria gonorrhoeae DNA [Presence] in Urethra by Probe & target amplification method
21416-3	N gonorrhoea DNA Ur QI PCR	Neisseria gonorrhoeae DNA [Presence] in Urine by Probe & target amplification method



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
24111-7	N gonorrhoea DNA XXX QI PCR	Neisseria gonorrhoeae DNA [Presence] in Unspecified specimen by Probe & target amplification method
32705-6	N gonorrhoea DNA Vag QI PCR	Neisseria gonorrhoeae DNA [Presence] in Vaginal fluid by Probe & target amplification method
32198-4	N gonorrhoea rRNA Cervix QI Prb	Neisseria gonorrhoeae rRNA [Presence] in Cervix by DNA probe
32199-2	N gonorrhoea rRNA Urth QI Prb	Neisseria gonorrhoeae rRNA [Presence] in Urethra by DNA probe
5028-6	N gonorrhoea rRNA XXX QI Prb	Neisseria gonorrhoeae rRNA [Presence] in Unspecified specimen by DNA probe
24364-2	Obstetric HCFA 1996 Pnl Ser+Bld	Obstetric HCFA 1996 panel in Serum & Blood
14874-2	Phenobarb SerPl-sCnc	Phenobarbital [Molecules/volume] in Serum or Plasma
3948-7	Phenobarb SerPl-mCnc	Phenobarbital [Mass/volume] in Serum or Plasma
3951-1	Phenobarb Free SerPl-mCnc	Phenobarbital Free [Mass/volume] in Serum or Plasma
14877-5	Phenytoin SerPl-sCnc	Phenytoin [Molecules/volume] in Serum or Plasma
3968-5	Phenytoin SerPl-mCnc	Phenytoin [Mass/volume] in Serum or Plasma
34540-5	Phenytoin Free+Total Pnl SerPl-mCnc	Phenytoin free & total panel [Mass/volume] in Serum or Plasma
32109-1	Phenytoin Free SerPl-sCnc	Phenytoin Free [Molecules/volume] in Serum or Plasma
3969-3	Phenytoin Free SerPl-mCnc	Phenytoin Free [Mass/volume] in Serum or Plasma
22760-3	Potassium SerPl-mCnc	Potassium [Mass/volume] in Serum or Plasma
2823-3	Potassium SerPl-sCnc	Potassium [Molecules/volume] in Serum or Plasma
2824-1	Potassium RBC-sCnc	Potassium [Molecules/volume] in Red Blood Cells
32713-0	Potassium BldA-sCnc	Potassium [Molecules/volume] in Arterial blood
6298-4	Potassium Bld-sCnc	Potassium [Molecules/volume] in Blood
12812-4	Potassium sp2 SerPl-sCnc	Potassium [Molecules/volume] in Serum or Plasma --2nd specimen
12813-2	Potassium sp3 SerPl-sCnc	Potassium [Molecules/volume] in Serum or Plasma --3rd specimen
29349-8	Potassium p dialysis SerPl-sCnc	Potassium [Molecules/volume] in Serum or Plasma --post dialysis
34493-7	PRF1 gene Mut Anal Amn	PRF1 gene mutations found [Identifier] in Amniotic Fluid by Molecular genetics method Narrative
10547-8	Primidone+Phenobarb SerPl-mCnc	Primidone+Phenobarbital [Mass/volume] in Serum or Plasma
34365-7	Primidone+Phenobarb SerPl-sCnc	Primidone+Phenobarbital [Molecules/volume] in Serum or Plasma
12842-1	Prot 12H Ur-mCnc	Protein [Mass/volume] in 12 hour Urine
18373-1	Prot 6H Ur-mRate	Protein [Mass/time] in 6 hour Urine
20454-5	Prot Ur QI Strip	Protein [Presence] in Urine by Test strip
21482-5	Prot 24H Ur-mCnc	Protein [Mass/volume] in 24 hour Urine
26801-1	Prot 12H Ur-mRate	Protein [Mass/time] in 12 hour Urine
27298-9	Prot Ur-aCnc	Protein [Units/volume] in Urine
2887-8	Prot Ur QI	Protein [Presence] in Urine
2888-6	Prot Ur-mCnc	Protein [Mass/volume] in Urine
2889-4	Prot 24H Ur-mRate	Protein [Mass/time] in 24 hour Urine
32209-9	Prot 24H Ur QI Strip	Protein [Presence] in 24 hour Urine by Test strip
32551-4	Prot ?Tm Ur Qn	Protein [Mass] in unspecified time Urine
35663-4	Prot ?Tm Ur-mCnc	Protein [Mass/volume] in unspecified time Urine
5804-0	Prot Ur Strip-mCnc	Protein [Mass/volume] in Urine by Test strip
13801-6	Prot/creat 24H Ur-mRto	Protein/Creatinine [Mass ratio] in 24 hour Urine
2890-2	Prot/creat Ur-mRto	Protein/Creatinine [Mass ratio] in Urine
34366-5	Prot/creat Ur-Rto	Protein/Creatinine [Ratio] in Urine



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
40486-3	Prot/creat 24H Ur-Rto	Protein/Creatinine [Ratio] in 24 hour Urine
40662-9	Prot Resting 12H Ur-mRate	Protein [Mass/time] in 12 hour Urine –resting
40663-7	Prot upr 12H Ur-mRate	Protein [Mass/time] in 12 hour Urine –upright
11084-1	Reagin Ab Titr Ser	Reagin Ab [Titer] in Serum
20507-0	RPR Ser QI-aCnc	Reagin Ab [Presence] in Serum by RPR
20508-8	RPR Ser Qn-aCnc	Reagin Ab [Units/volume] in Serum by RPR
22461-8	Reagin Ab Ser QI	Reagin Ab [Presence] in Serum
22462-6	Reagin Ab Ser-aCnc	Reagin Ab [Units/volume] in Serum
31147-2	RPR Ser-Titr	Reagin Ab [Titer] in Serum by RPR
5291-0	VDRL Ser Qn-aCnc	Reagin Ab [Units/volume] in Serum by VDRL
5292-8	VDRL Ser QI-aCnc	Reagin Ab [Presence] in Serum by VDRL
24362-6	Renal Func HCFA 2000 Pnl SerPI	Renal function HCFA 2000 panel in Serum or Plasma
10331-7	Rh Bld	Rh [Type] in Blood
34961-3	Rh Bld Cfm	Rh [Type] in Blood by Confirm method
42316-0	RHD gene Mut Anal Amn	RHD gene mutations found [Type] in Amniotic Fluid by Molecular genetics method
17550-5	RUBV Ab Ser LA-aCnc	Rubella virus Ab [Units/volume] in Serum by Latex agglutination
22496-4	RUBV Ab Ser QI	Rubella virus Ab [Presence] in Serum
22497-2	RUBV Ab Titr Ser	Rubella virus Ab [Titer] in Serum
5330-6	RUBV Ab Ser HAI-aCnc	Rubella virus Ab [Units/volume] in Serum by Hemagglutination inhibition
5331-4	RUBV Ab Ser QI HAI	Rubella virus Ab [Presence] in Serum by Hemagglutination inhibition
5332-2	RUBV Ab Ser QI LA	Rubella virus Ab [Presence] in Serum by Latex agglutination
5333-0	RUBV Ab Titr Ser LA	Rubella virus Ab [Titer] in Serum by Latex agglutination
8013-5	RUBV Ab Ser-aCnc	Rubella virus Ab [Units/volume] in Serum
25514-1	RUBV IgG Ser QI	Rubella virus IgG Ab [Presence] in Serum
41763-4	RUBV IgG Titr Ser	Rubella virus IgG Ab [Titer] in Serum
5334-8	RUBV IgG Ser EIA-aCnc	Rubella virus IgG Ab [Units/volume] in Serum by Immunoassay
8014-3	RUBV IgG Ser-aCnc	Rubella virus IgG Ab [Units/volume] in Serum
34952-2	RUBV IgG+IgM Pnl Ser	Rubella virus IgG & IgM panel in Serum
34421-8	RUBV IgG Avidity Ser-aCnc	Rubella virus IgG Ab avidity [Units/volume] in Serum
13279-5	RUBV IgG sp1 Ser-aCnc	Rubella virus IgG Ab [Units/volume] in Serum --1st specimen
25298-1	RUBV IgG 1:2 Ser-Rto	Rubella virus IgG Ab [Ratio] in Serum --1st specimen/2nd specimen
13280-3	RUBV IgG sp2 Ser-aCnc	Rubella virus IgG Ab [Units/volume] in Serum --2nd specimen
24116-6	RUBV IgM Ser QI EIA	Rubella virus IgM Ab [Presence] in Serum by Immunoassay
25420-1	RUBV IgM Ser QI LA	Rubella virus IgM Ab [Presence] in Serum by Latex agglutination
31616-6	RUBV IgM Ser QI	Rubella virus IgM Ab [Presence] in Serum
5335-5	RUBV IgM Ser EIA-aCnc	Rubella virus IgM Ab [Units/volume] in Serum by Immunoassay
8015-0	RUBV IgM Ser-aCnc	Rubella virus IgM Ab [Units/volume] in Serum
34548-8	Sodium + Potassium Pnl SerPI-sCnc	Sodium & Potassium panel [Molecules/volume] in Serum or Plasma
19764-0	Stat of Adq Cvx/Vag Cyto-Imp	Statement of adequacy [interpretation] in Cervical or vaginal smear or scraping by Cyto stain
11268-0	S pyog Throat QI Cult	Streptococcus pyogenes [Presence] in Throat by Organism specific culture
18481-2	S pyog Ag Throat QI	Streptococcus pyogenes Ag [Presence] in Throat
31971-5	S pyog Ag XXX QI	Streptococcus pyogenes Ag [Presence] in Unspecified specimen
6556-5	S pyog Ag Throat QI EIA	Streptococcus pyogenes Ag [Presence] in Throat by Immunoassay



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
6557-3	S pyog Ag Throat QI IF	Streptococcus pyogenes Ag [Presence] in Throat by Immunofluorescence
6558-1	S pyog Ag XXX QI EIA	Streptococcus pyogenes Ag [Presence] in Unspecified specimen by Immunoassay
6559-9	S pyog Ag XXX QI IF	Streptococcus pyogenes Ag [Presence] in Unspecified specimen by Immunofluorescence
17656-0	S pyog XXX Cult	Streptococcus pyogenes identified in Unspecified specimen by Organism specific culture
5036-9	S pyog rRNA XXX QI Prb	Streptococcus pyogenes rRNA [Presence] in Unspecified specimen by DNA probe
24314-7	TORCH HCFA 1996 Pnl Ser	TORCH HCFA 1996 panel in Serum
11598-0	T gondii Ab Ser-aCnc	Toxoplasma gondii Ab [Units/volume] in Serum
22577-1	T gondii Ab Ser QI	Toxoplasma gondii Ab [Presence] in Serum
23485-6	T gondii Ab Ser QI Aggl	Toxoplasma gondii Ab [Presence] in Serum by Agglutination
23486-4	T gondii Ab Ser QI LA	Toxoplasma gondii Ab [Presence] in Serum by Latex agglutination
23784-2	T gondii Ab Titr Ser HA	Toxoplasma gondii Ab [Titer] in Serum by Hemagglutination
42949-8	T gondii Ab Titr Ser	Toxoplasma gondii Ab [Titer] in Serum
5387-6	T gondii Ab Ser QI Dye Test	Toxoplasma gondii Ab [Presence] in Serum by Sabin dye test
12261-4	T gondii IgG Titr Ser EIA	Toxoplasma gondii IgG Ab [Titer] in Serum by Immunoassay
21570-7	T gondii IgG Ser QI Dye Test	Toxoplasma gondii IgG Ab [Presence] in Serum by Sabin dye test
22580-5	T gondii IgG Ser QI	Toxoplasma gondii IgG Ab [Presence] in Serum
22582-1	T gondii IgG Titr Ser	Toxoplasma gondii IgG Ab [Titer] in Serum
35281-5	T gondii IgG Ser QI IF	Toxoplasma gondii IgG Ab [Presence] in Serum by Immunofluorescence
40677-7	T gondii IgG Ser QI EIA	Toxoplasma gondii IgG Ab [Presence] in Serum by Immunoassay
5388-4	T gondii IgG Ser EIA-aCnc	Toxoplasma gondii IgG Ab [Units/volume] in Serum by Immunoassay
5389-2	T gondii IgG Titr Ser IF	Toxoplasma gondii IgG Ab [Titer] in Serum by Immunofluorescence
8039-0	T gondii IgG Ser-aCnc	Toxoplasma gondii IgG Ab [Units/volume] in Serum
34422-6	T gondii IgG Avidity Ser-aCnc	Toxoplasma gondii IgG Ab avidity [Units/volume] in Serum
24242-0	T gondii IgG sp1 Ser-aCnc	Toxoplasma gondii IgG Ab [Units/volume] in Serum --1st specimen
25300-5	T gondii IgG 1:2 Ser-Rto	Toxoplasma gondii IgG Ab [Ratio] in Serum --1st specimen/2nd specimen
13286-0	T gondii IgG sp2 Ser-aCnc	Toxoplasma gondii IgG Ab [Units/volume] in Serum --2nd specimen
40786-6	T gondii IgG sp2 Titr Ser	Toxoplasma gondii IgG Ab [Titer] in Serum --2nd specimen
17717-0	T gondii IgG+IgM Ser QI	Toxoplasma gondii IgG+IgM Ab [Presence] in Serum
12262-2	T gondii IgM Titr Ser EIA	Toxoplasma gondii IgM Ab [Titer] in Serum by Immunoassay
22584-7	T gondii IgM Titr Ser	Toxoplasma gondii IgM Ab [Titer] in Serum
25542-2	T gondii IgM Ser QI	Toxoplasma gondii IgM Ab [Presence] in Serum
33336-9	T gondii IgM Ser QI Aggl	Toxoplasma gondii IgM Ab [Presence] in Serum by Agglutination
35282-3	T gondii IgM Ser QI IF	Toxoplasma gondii IgM Ab [Presence] in Serum by Immunofluorescence
40678-5	T gondii IgM Ser QI EIA	Toxoplasma gondii IgM Ab [Presence] in Serum by Immunoassay
5390-0	T gondii IgM Ser EIA-aCnc	Toxoplasma gondii IgM Ab [Units/volume] in Serum by Immunoassay
5391-8	T gondii IgM Titr Ser IF	Toxoplasma gondii IgM Ab [Titer] in Serum by Immunofluorescence
8040-8	T gondii IgM Ser-aCnc	Toxoplasma gondii IgM Ab [Units/volume] in Serum
40785-8	T gondii IgM sp1 Titr Ser	Toxoplasma gondii IgM Ab [Titer] in Serum --1st specimen
11597-2	T pallidum Ab Ser-aCnc	Treponema pallidum Ab [Units/volume] in Serum
17723-8	T pallidum Ab Ser QI Immob	Treponema pallidum Ab [Presence] in Serum by Immobilization
17724-6	T pallidum Ab Ser IF-aCnc	Treponema pallidum Ab [Units/volume] in Serum by Immunofluorescence



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
17725-3	T pallidum Ab Ser LA-aCnc	Treponema pallidum Ab [Units/volume] in Serum by Latex agglutination
22587-0	T pallidum Ab Ser QI	Treponema pallidum Ab [Presence] in Serum
22590-4	T pallidum Ab Titr Ser	Treponema pallidum Ab [Titer] in Serum
24110-9	T pallidum Ab Ser QI EIA	Treponema pallidum Ab [Presence] in Serum by Immunoassay
24312-1	T pallidum Ab Ser QI Aggl	Treponema pallidum Ab [Presence] in Serum by Agglutination
26009-1	T pallidum Ab Titr Ser HA	Treponema pallidum Ab [Titer] in Serum by Hemagglutination
34382-2	T pallidum Ab Titr Ser IF	Treponema pallidum Ab [Titer] in Serum by Immunofluorescence
5392-6	T pallidum Ab Ser Immob-aCnc	Treponema pallidum Ab [Units/volume] in Serum by Immobilization
5393-4	T pallidum Ab Ser QI IF	Treponema pallidum Ab [Presence] in Serum by Immunofluorescence
5394-2	T pallidum Ab Titr Ser LA	Treponema pallidum Ab [Titer] in Serum by Latex agglutination
8041-6	T pallidum Ab Ser QI HA	Treponema pallidum Ab [Presence] in Serum by Hemagglutination
17726-1	T pallidum IgG Ser QI IF	Treponema pallidum IgG Ab [Presence] in Serum by Immunofluorescence
17727-9	T pallidum IgG Ser IF-aCnc	Treponema pallidum IgG Ab [Units/volume] in Serum by Immunofluorescence
22592-0	T pallidum IgG Ser-aCnc	Treponema pallidum IgG Ab [Units/volume] in Serum
6561-5	T pallidum IgG Ser QI	Treponema pallidum IgG Ab [Presence] in Serum
17728-7	T pallidum IgM Ser IF-aCnc	Treponema pallidum IgM Ab [Units/volume] in Serum by Immunofluorescence
17729-5	T pallidum IgM Ser QI IF	Treponema pallidum IgM Ab [Presence] in Serum by Immunofluorescence
22594-6	T pallidum IgM Ser-aCnc	Treponema pallidum IgM Ab [Units/volume] in Serum
6562-3	T pallidum IgM Ser QI	Treponema pallidum IgM Ab [Presence] in Serum
24357-6	UA Dipstick Pnl Ur	UA dipstick panel in Urine
14937-7	BUN SerPI-sCnc	Urea nitrogen [Molecules/volume] in Serum or Plasma
3094-0	BUN SerPI-mCnc	Urea nitrogen [Mass/volume] in Serum or Plasma
6299-2	BUN Bld-mCnc	Urea nitrogen [Mass/volume] in Blood
12966-8	BUN 2H spec SerPI-mCnc	Urea nitrogen [Mass/volume] in Serum or Plasma --2 hour specimen
12965-0	BUN 70M spec SerPI-mCnc	Urea nitrogen [Mass/volume] in Serum or Plasma --70 minute specimen
12964-3	BUN BS Bld-mCnc	Urea nitrogen [Mass/volume] in Blood --baseline
11064-3	BUN p dialysis SerPI-mCnc	Urea nitrogen [Mass/volume] in Serum or Plasma --post dialysis
11065-0	BUN pre dial SerPI-mCnc	Urea nitrogen [Mass/volume] in Serum or Plasma --pre dialysis
24356-8	Urinalysis Pnl Ur	Urinalysis panel in Urine
14946-8	Valproate SerPI-sCnc	Valproate [Molecules/volume] in Serum or Plasma
4086-5	Valproate SerPI-mCnc	Valproate [Mass/volume] in Serum or Plasma
21590-5	Valproate Bnd Fr SerPI	Valproate.bound/Valproate.total in Serum or Plasma
32119-0	Valproate Free SerPI-sCnc	Valproate Free [Molecules/volume] in Serum or Plasma
4087-3	Valproate Free SerPI-mCnc	Valproate Free [Mass/volume] in Serum or Plasma
32283-4	Valproate Free Fr SerPI	Valproate Free/Valproate.total in Serum or Plasma
18489-5	PB Valproate SerPI-mCnc	Valproate.protein bound [Mass/volume] in Serum or Plasma
4088-1	Valproate Trough SerPI-mCnc	Valproate [Mass/volume] in Serum or Plasma --trough

2.2.3.6.1.2 Laboratory Observation



Table 2-94 Laboratory Observation Value Set

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.24
Name	Laboratory Observation 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
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

2.2.3.6.2 Laboratory Order**Table 2-95 Laboratory Order Value Set**

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.25
Name	Laboratory Order Value Set
Source	HITSP
URL	Not Available at Publication
Purpose	This identifies the laboratory order
Definition	From the LOINC® database, Laboratory order concepts can be extracted by using the following filter: CLASSTYPE=1 and ORDER_OBS= order
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	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 2-96 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 Observation Interpretation has been reproduced below in Table 2-97 V3 Result Normalcy Value Set Definition
Version	V3NE08
Type	Extensional
Binding	Static
Status	Active
Effective Date	Unknown
Expiration Date	N/A
Creation Date	Unknown
Revision Date	N/A
Code System Name	Observation Interpretation
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary

Table 2-97 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



Concept Code	Concept Name	Definition
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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Example: A Total White Blood Cell Count falling below a protocol-defined threshold value of 3000/mm³

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 2-98 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 2-99 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 2-99 V2 Result Status Value Set Definition

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

2.2.3.6.4.2 HL7 V3**Table 2-100 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 2-101 V3 Result Status Value Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	N/A
Code System Name	Act Status
Code System Source	Health Level Seven (HL7) Version 3.0 Vocabulary



Table 2-101 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 2-102 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 2-103 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 2-103 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 2-104 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.

2.2.3.7 PROCEDURES

2.2.3.7.1 Procedure

Table 2-105 Procedure Value Set

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.28
Name	Procedure Value Set
Source	HITSP



Element	Description
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 2-106 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 2-107 Provider Role Value Set Definition
Version	20090630
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	20090630
Code System Name	Provider Role
Code System Source	Health Level Seven (HL7) Version 2.5.1

Table 2-107 Provider Role Value Set Definition

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



2.2.3.8.2 Provider Type

Table 2-108 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 2-109 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 2-109 Provider Type Value Set Definition

Concept Code	Concept Name	Definition
	Behavioral Health and Social Service Providers	Not Available
	Chiropractic Providers	Not Available
	Dental Providers	Not Available
	Dietary and Nutritional Service Providers	Not Available
	Emergency Medical Service Providers	Not Available
	Eye and Vision Service Providers	Not Available
	Nursing Service Providers	Not Available
	Pharmacy Service Providers (Individuals)	Not Available
	Allopathic & Osteopathic Physicians	Not Available
	Podiatric Medicine and Surgery Providers	Not Available
	Respiratory, Rehabilitative and Restorative Service Providers	Not Available
	Speech, Language and Hearing Providers	Not Available
	Agencies	Not Available
	Ambulatory Health Care Facilities	Not Available
	Hospitals	Not Available
	Laboratories	Not Available
	Managed Care Organizations	Not Available



Concept Code	Concept Name	Definition
	Nursing and Custodial Care Facilities	Not Available
	Residential Treatment Facilities	Not Available
	Suppliers (including Pharmacies and Durable Medical Equipment)	Not Available
	Physician Assistants and Advanced Practice Nursing Providers	Not Available
	Nursing Service Related Providers	Not Available
	Respite Care Facility	Not Available

2.2.3.9 ADMISSIONS AND ENCOUNTERS

2.2.3.9.1 Admission Source

Table 2-110 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 2-111 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



Element	Description
Creation Date	Unknown
Revision Date	N/A
Code System Name	Uniform Bill Type of Admission/Visit
Code System Source	National Uniform Billing Committee (NUBC)

2.2.3.9.3 Encounter Type

Table 2-112 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 2-113 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



Element	Description
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 2-114 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 2-115 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 2-115 V3 Patient Class Value Set Definition

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



2.2.3.10 ADVANCE DIRECTIVES

2.2.3.10.1 Advance Directive Type

Table 2-116 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 2-117 Advance Directive Type Value Set Definition.
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 2-117 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 2-118 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 2-119 Genetic Test Result Identifier Value Set Definition



Element	Description
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 2-119 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



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
51968-6	Gene dis anal interp Bld/T-Imp	Genetic disease analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method
51969-4	Gene dis anal rept Bld/T Doc	Genetic disease analysis report [Finding] in Blood or Tissue Document by Molecular genetics method
51967-8	Gene dis assessed Bld/T	Genetic disease assessed [Identifier] in Blood or Tissue by Molecular genetics method
51966-0	Gene dis DNA anal Pnl Bld/T	Genetic disease DNA analysis panel in Blood or Tissue by Molecular genetics method
53037-8	Gene dis marker interp Bld/T-Imp	Genetic disease marker interpretation [interpretation] in Blood or Tissue by Molecular genetics method
48002-0	Genomic source class Bld/T	Genomic source class [Type] in Blood or Tissue by Molecular genetics method
48013-7	Genomic reference sequence ID Bld/T	Genomic reference sequence [Identifier] in Blood or Tissue by Molecular genetics method
51970-2	Individual allele ID Bld/T	Individual allele identifier [Identifier] in Blood or Tissue by Molecular genetics method
51975-1	Individual allele ID panel Bld/T	Individual allele results panel in Blood or Tissue by Molecular genetics method
48015-2	Individual Allele Pnl Bld/T	Individual allele panel in Blood or Tissue by Molecular genetics method
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 2-120 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 2-121 Genetic Test Result Value Set Definition
Version	20081218
Type	Extensional
Binding	Static
Status	Active
Effective Date	20081218



Element	Description
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 2-121 Genetic Test Result Value Set Definition

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



LOINC® code	LOINC® Long Common Name	Sequence	Answer text	LOINC® answer code
51971-0	Drug metabolism analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Ultrarapid metabolizer	LA10315-2
		2	Extensive metabolizer	LA10316-0
		3	Intermediate metabolizer	LA10317-8
		4	Poor metabolizer	LA9657-3
53040-2	Drug metabolism marker interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Ultrarapid metabolizer	LA10315-2
		2	Extensive metabolizer	LA10316-0
		3	Intermediate metabolizer	LA10317-8
		4	Poor metabolizer	LA9657-3
53039-4	Genetic disease analysis overall carrier interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Carrier	LA10314-5
		2	Negative	LA6577-6
		3	Inconclusive	LA9663-1
		4	Failure	LA9664-9
51968-6	Genetic disease analysis overall interpretation [interpretation] in Blood or Tissue by Molecular genetics method	1	Positive	LA6576-8
		2	Negative	LA6577-6
		3	Inconclusive	LA9663-1
		4	Failure	LA9664-9
51968-6	Genetic disease analysis overall 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 2-122 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 2-123 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 2-124 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=nuccore
Purpose	This identifies genetic reference sequences
Definition	See http://www.ncbi.nlm.nih.gov/sites/entrez?db=nuccore 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 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.

2.2.3.14.1 Document Class

Table 2-125 Document Class Value Set

Element	Description
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 2-126 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	20081218
Type	Extensional
Binding	Static
Status	Active



Element	Description
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 2-126 Document Class Value Set Definition

Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
11369-6	History of Immunizations	
11485-0	Anesthesia Records	Anesthesia records
11486-8	Chemotherapy Records	Chemotherapy records
11488-4	Consultation note	Provider-unspecified consulting 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 Study Reports	Radiology study reports (set)
18761-7	Transfer summarization note	Provider-unspecified transfer summary
18842-5	Discharge summarization note	Hospital discharge history (narrative)
26436-6	Laboratory Studies	
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 Study Reports	Pathology study reports (set)
28570-0	Procedure note	Provider-unspecified procedure note
28619-5	Ophthalmology/Optometry 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
29751-5	Critical Care Records	Critical care records
29752-3	Perioperative Records	Perioperative records
34109-9	Evaluation and management note	
34117-2	History and physical note	
34121-4	Interventional procedure note	
34122-2	Pathology procedure note	
34133-9	Summarization of episode note	
34140-4	Transfer of care referral note	
34748-4	Telephone encounter note	
34775-7	Pre-operative evaluation and management note	
47039-3	Admission history and physical note	
47042-7	Counseling note	
47045-0	Study report	



Concept Code	Concept Name (LOINC® Short Name)	Definition (LOINC® Long Common Name)
47046-8	Summary of death	
47049-2	Communication	

2.2.3.14.2 Document Type

Table 2-127 Document Type Value Set

Element	Description
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 2-126 Document Class Value Set Definition above used for Document Class, and all LOINC® values whose SCALE is DOC in the LOINC® database
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	Logical Observation Identifiers Names and Codes (LOINC®)
Code System Source	Regenstrief Institute, Inc.

2.2.3.14.3 Practice Setting

Table 2-128 Practice Setting Value Set

Element	Description
Identifier	2.16.840.1.113883.3.88.12.80.67
Name	Practice Setting Value Set
Source	National Uniform Claim Committee (NUCC)
URL	http://www.wpc-edi.com/taxonomy
Purpose	This is the code specifying the clinical specialty where the act that resulted in the document was performed (e.g., Family Practice, Laboratory, Radiology, 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	See http://www.wpc-edi.com/taxonomy The value set used for practice setting has been limited by HITSP to the value set reproduced below in Table 2-129 Practice Setting Value Set Definition Note: Practice Setting is a subset of the Provider Type value set. See notes on the missing code values in Section 2.2.3.8.2
Version	20090630
Type	Extensional
Binding	Static
Status	Active



Element	Description
Effective Date	20081218
Expiration Date	N/A
Creation Date	20081218
Revision Date	20090630
Code System Name	Health Care Provider Taxonomy
Code System Source	National Uniform Claim Committee (NUCC)

Table 2-129 Practice Setting Value Set Definition

Concept Code	Concept Name	Definition
	Agencies	Not Available
	Ambulatory Health Care Facilities	Not Available
	Hospitals	Not Available
	Laboratories	Not Available
	Managed Care Organizations	Not Available
	Nursing and Custodial Care Facilities	Not Available
	Residential Treatment Facilities	Not Available
	Respite Care Facility	Not Available
	Suppliers (including Pharmacies and Durable Medical Equipment)	Not Available

2.3 STANDARDS

2.3.1 REGULATORY GUIDANCE

Table 2.3.1-1 Regulatory Guidance

Regulation	Description
No applicable regulatory guidance	

2.3.2 SELECTED STANDARDS

Table 2.3.2-1 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 2-2 Informative Reference Standards

Standard	Description
Federal Medication Terminologies	<p>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)</p> <p>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</p>



3.0 APPENDIX

The following sections include relevant materials referenced throughout this document.

No additional information at this time.



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 2.2.3.14.1 Document Class

- Changed Value Set to Enumerated

Section 2.3 Standards

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

Minor editorial changes were made to this document.

4.2 DECEMBER 18, 2008

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

4.3 JUNE 30, 2009

- Section 2.1.1 Value Set Metadata
 - Updated this section to incorporate metadata definitions defined in HITSP/TN903
- Section 2.1.2 Code System Metadata
 - Added this section to incorporate metadata definitions defined in HITSP/TN903
- Section 2.1.3 Value Set Member MetaData
 - Added this section to incorporate metadata definitions defined in HITSP/TN903
- Section 2.1.4 Value Set Versioning



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

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

4.4 JULY 8, 2009

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

