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COMMONWEALTH OF VIRGINIA



Information Technology Resource Management (ITRM)

ENTERPRISE ARCHITECTURE HEALTH VOCABULARY DATA STANDARD

Virginia Information Technologies Agency (VITA)

Reviews

- This publication was reviewed by the Policy, Practice and Architecture group.
- This publication was reviewed by the Health Information Technology Standards Advisory Committee (HITSAC):
 - Dr. Marshall Ruffin, HITSAC Chairman, Chief Technology and Health Information Officer UVA Health System
 - Mr. Geoff Brown, Senior Vice President and Chief Information Officer of Inova Health System
 - Mr. Richard Pollack, Vice President and Chief Information Officer, VCU Health System
 - Mr. John Quinn, Chief Technology Officer of HL7, Inc.
- Online review was provided for agencies and other interested parties via the VITA Online Review and Comment Application (ORCA).
- The VITA Enterprise Solutions and Governance Directorate (ESG) has supported the development of the Health Interoperability Data standard and has reviewed it for completeness and accuracy according to data management best practices. The ESG resources responsible for supporting the Health Interoperability Data standard are as follows:
 - Jerry Simonoff, Director Enterprise Solutions and Governance
 - Susan McCleary, HITSAC Administrator
 - Akeisha Heard, Data Analyst
 - Todd Kissam, Chief Enterprise Architect
 - Mike Hammel, Enterprise Architect

Publication Version Control

This following table contains a history of revisions to this publication.

Version	Date	Revision Description
1.0	mm/dd/2011	Initial Document

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Health Vocabulary Data Standards – Scope

Health Vocabulary Data Standards define the external standards applicable to Agencies involved in the exchange of health information. This standard establishes the external, nationally recognized vocabulary standards applicable to health information exchange that will be used by agencies to ensure interoperability between agencies and between agencies and external entities. Health messaging, document and service Data Standards are addressed in a separate document.

Definitions

Agencies: Commonwealth agencies and institutions of higher education that are responsible for the management, development, purchase or use of information technology resources in the Commonwealth of Virginia.

Code Set: The term 'code set' means any set of codes used for encoding data elements, such as tables of terms, medical concepts, medical diagnostic codes, or medical procedure codes.

Data Dictionary: A data dictionary is a centralized repository of information about data such as meaning, relationships to other data, origin, usage, and format." (ACM, IBM Dictionary of Computing, 10th edition, 1993) A data dictionary includes such items as complete and accurate definitions of both entities and attributes, attribute domains, valid values, synonyms or aliases, default values, data type and length, required/not required constraints, etc.

Data Owner: The Agency Data Owners define, manage and control the use of data within their organizations. The Agency Head or designee designates the Agency Data Owner(s) for the functional/subject areas within their jurisdictional control or authority. They also ensure adequate resources for Agency Data Owners to effectively develop and maintain their respective functional/subject areas in support of the Commonwealth's Data Management Program.

Data Steward: A data steward is the person assigned by an agency to represent the agency's interagency data needs and ensure that proposed standards meets those needs. The Agency Data Steward works on behalf of their Agency Data Owner. The data steward should have a broad understanding of the agency's data, be able to research data usage, and be empowered to obtain agreement from data owners and speak authoritatively for the agency.

Document: Structured information encoded in Extensible Markup Language (XML) document. Also known as a file. Typically, a document is sent to a service and the messages coordinate the hand-shaking necessary to send and receive the document. A document can contain one or more records.

External Entity: Any organization that is not an Agency; includes non-governmental organizations as well as local and federal government organizations.

External Standard: Defined and maintained by national/international organizations, industry consortiums or the federal government to improve the ability to share data and ensure interoperability. Generally may apply to services, documents, vocabularies and/or messages. Includes extending (e.g., adding data elements or codes to) an existing external standard to accommodate requirements specific to the Commonwealth.

Health Information: Any information, whether oral or recorded in any form or medium, that (1) is created or received by a health care provider, health plan, public health authority, employer, life insurer, school or university, or health care clearinghouse; and (2) relates to the past, present, or future physical or mental health or condition of an individual; the provision of health care to an individual; or the past, present, or future payment for the provision of health care to an individual. (http://privacyruleandresearch.nih.gov/pr_12.asp)

Internal Standard: Defined by one or more Commonwealth agencies where External Standards do not exist.

Message: A message is a character string that contains data encoded according to a particular set of encoding rules. Encoding rules determine how (i.e., using what syntax) data elements are stored within messages. (http://www.ringholm.com/docs/00200_en.htm)

Service: One or more functions available on an Enterprise Service bus. A service can be automated, manual (people), or a combination. Services can exist within services. A service typically receives messages or documents.

Standard: A standard specifies a well-defined approach that supports a business process and: (1) has been agreed upon by a group of experts; (2) has been publicly vetted; (3) provides rules, guidelines, or characteristics; (4) helps to ensure that materials, products, processes, and services are fit for their intended purpose; (5) is available in an accessible format; and (6) is subject to an ongoing review and revision process.

Vocabulary: A vocabulary (also called a code set) is a list of controlled terminology most often associated with a list of codes that are used to indicate a particular piece of information such as medical concepts, medical diagnosis, or medical procedures.

Health Interoperability Data Standards – Roles and Responsibilities

The following roles and responsibilities are derived from authority found in the Code of Virginia (see page 4) and the Data Governance Standard (ITRM xxxx).

The **Secretary of Technology (SoTech)**: With the assent of the Secretary of Health and Human Resources (SoHHR): approves the adoption of external standards, including the scope of applicability and a timeline for adoption and implementation by Agencies; considers requests for modifications to the standards, the scope of applicability and the timeline for adoption and implementation by Agencies; approves or denies requests from Agencies for modifications.

The **Secretary of Health and Human Resources (SoHHR)**: Recommends the adoption of relevant external standards before final approval by SoTech; responsible for ensuring timely

implementation by agencies within HHR. In collaboration with SoTech, considers requests for modifications to the standards, the scope of applicability and the timeline for adoption and implementation by Agencies. Each such request must be approved by SoTech and the SoHHR.

The **Chief Information Officer for the Commonwealth (CIO)**: Recommends adoption of any proposed external standard to the Secretary of Technology (SoTech). The recommendation will include a statement of the scope of applicability of the external standard and a timeline for adoption and implementation by Agencies.

The **Virginia Information Technologies Agency (VITA)**: Oversees the implementation of approved standards, maintains a central standards repository, provides oversight of standards implementation, provides on-going maintenance of the standard, ensures that external standards are employed wherever possible and minimizes the use of customized internal standards.

The **Health Information Technologies Standards Advisory Committee (HITSAC)**: advises VITA, the CIO, SoHHR and SoTech on the adoption and implementation of external health information technical and data standards.

Agencies: Implement the approved external standards on the schedule required by this standard; may propose changes (additions, deletions, modifications) to adopted external standards for consideration by VITA, the CIO, SoTech, SoHHR and HITSAC; provide Data Owners, responsible for ensuring implementation of the approved standards as follows:

- Department for the Aging (VDA): Leonard Eshmont, Chief Information Officer
- Department of Behavioral Health and Developmental Services (DBHDS): Sanford Hostetter, Chief Information Officer
- Department of General Services Division of Consolidated Laboratory Services (DCLS): Wanda Andrews, Director of Laboratory Operations
- Department of General Services Division of Consolidated Laboratory Services (DCLS): Vickie Tyson, IT Application Development and Project Manager
- Department of Health (VDH): Debbie Secor, Chief Information Officer
- Department of Health Professions (DHP): Patricia A. Paquette, Chief Information Officer
- Department of Medical Assistance Services (DMAS): Sylvia Hart, Chief Information Officer
- Department of Rehabilitative Services (DRS): Ernie Steidle, Chief Information Officer
- Department of Social Services (VDSS): Robert Hobbelman, Chief Information Officer

The Data Stewards associated with each agency are as follows:

- VDA: Leonard Eshmont, Chief Information Officer
- DBHDS: Wendy Cary
- DBHDS: Beverly Thomas
- DCLS: Vickie Tyson, IT Application Development and Project Manager
- VDH: Jason Hall

- VDH: Diana Malik
- DMAS: Carrie McDermott
- DMAS: Karen Rowson

Components of the Health Vocabulary Data Standard

The Health Vocabulary Data Standard consists of the following components:

1. A business narrative describing the standard (this document).

Health Vocabulary Data Standards – Authority

The following citations from the Code of Virginia provide the authority for implementation and enforcement of this Standard:

§ 2.2-200. Appointment of Governor's Secretaries; general powers; severance. ...

C. Unless the Governor expressly reserves such power to himself and except as provided in Article 5 (§ [2.2-208](#) et seq.) of this chapter, each Secretary may: ...

3. Hold agency heads accountable for their administrative, fiscal and program actions in the conduct of the respective powers and duties of the agencies;

4. Direct the development of goals, objectives, policies and plans that are necessary to the effective and efficient operation of government; ...

E. As used in this chapter, "Governor's Secretaries" means the Secretary of Administration, the Secretary of Agriculture and Forestry, the Secretary of Commerce and Trade, the Secretary of Education, the Secretary of Finance, the Secretary of Health and Human Resources, the Secretary of Natural Resources, the Secretary of Public Safety, the Secretary of Technology, and the Secretary of Transportation.

§ 2.2-225. Position established; agencies for which responsible; additional powers.

The position of Secretary of Technology (the Secretary) is created. ...

Unless the Governor expressly reserves such power to himself, the Secretary may, with regard to strategy development, planning and budgeting for technology programs in the Commonwealth: ...

12. Review and approve statewide technical and data standards for information technology and related systems, including the utilization of nationally recognized technical and data standards for health information technology systems or software purchased by a state agency of the Commonwealth, as recommended by the CIO. ...

§ 2.2-2007. Powers of the CIO.

- A. In addition to such other duties as the Secretary may assign, the CIO shall: ...
2. Direct the formulation and promulgation of policies, guidelines, standards, and specifications for the purchase, development, and maintenance of information technology for state agencies, including, but not limited to, those (i) required to support state and local government exchange, acquisition, storage, use, sharing, and distribution of geographic or base map data and related technologies, (ii) concerned with the development of electronic transactions including the use of electronic signatures as provided in § 59.1-496, and (iii) necessary to support a unified approach to information technology across the totality of state government, thereby assuring that the citizens and businesses of the Commonwealth receive the greatest possible security, value, and convenience from investments made in technology. ...
 12. Develop and recommend to the Secretary statewide technical and data standards for information technology and related systems, including the utilization of nationally recognized technical and data standards for health information technology systems or software purchased by a state agency of the Commonwealth. ...

§ 2.2-2010. Additional powers of VITA.

- VITA shall have the following additional powers which, with the approval of the CIO, may be exercised by a division of VITA with respect to matters assigned to that division:
1. Prescribe regulations necessary or incidental to the performance of duties or execution of powers conferred under this chapter. ...
 4. Develop and adopt policies, standards, and guidelines for managing information technology by state agencies and institutions. ...
 6. Direct the establishment of statewide standards for the efficient exchange of electronic information and technology, including infrastructure, between the public and private sectors in the Commonwealth.
 8. Develop statewide technical and data standards for information technology and related systems to promote efficiency and uniformity. ...

§ 2.2-2699.6. Powers and duties of the ITAC.

- The ITAC shall have the power and duty to: ...
3. Advise the CIO on strategies, standards, and priorities for the use of information technology for state agencies in the executive branch of state government; ...
 5. Advise the CIO on statewide technical and data standards for information technology and related systems, including the utilization of nationally recognized technical and data standards for health information technology systems or software purchased by a state agency of the Commonwealth; ...

§ 2.2-2699.7. Health Information Technology Standards Advisory Committee.

The ITAC may appoint an advisory committee of persons with expertise in health care and information technology to advise the ITAC on the utilization of nationally recognized technical and data standards for health information technology systems or software pursuant to subdivision 5 of § [2.2-2699.6](#). The ITAC, in consultation with the Secretary of Health and Human Resources, may appoint up to five persons to serve on the advisory committee. Members appointed to the advisory committee shall serve without compensation, but shall be reimbursed for all reasonable and necessary expenses incurred in the performance of their duties as provided in § [2.2-2825](#). The CIO, the Secretary of Technology, and the Secretary of Health and Human Resources, or their designees, may also serve on the advisory committee.

Health Vocabulary Data Standards

The following table lists the vocabularies that are adopted as standards by the Commonwealth of Virginia. The text that follows describes each adopted standard, when the standard will be used, availability and source of information.

Adopted Vocabulary Data Standards

Name	Acronym
CVX	CVX
Enzyme Nomenclature	Enzyme Codes
Codes for the Identification of Counties and Equivalent Entities of the United States, its Possessions, and Insular Areas	INCITS 31
Health Level 7 Vocabulary	HL7 Vocabulary
International Classification of Diseases, Ninth Revision, Clinical Modification	ICD-9-CM
International Classification of Diseases, Tenth Revision	ICD-10
ISO 3166 Country Codes	ISO Country Codes
Logical Observation Identifiers Names and Codes	LOINC
MVX	MVX
National Immunization Program Current Procedural Terminology	NIP CPT
Office of Management and Budget, Statistical Policy Directive No. 15, Race and Ethnic Standards for Federal Statistics and Administrative Reporting	OMB
Online Mendelian Inheritance in Man	OMIM
Public Health Laboratory Interoperability Project	PHLIP
RxNorm	RxNorm
Systemized Nomenclature of Medicine-Clinical Terms	SNOMED CT
Unified Code for Units of Measure	UCUM
U.S. Department of Agriculture Animal and Plant Health Inspection Service Surveillance and Data Standards	USDA-APHIS
CDC Local Codes	CDC Local Codes
NCPDP	NCPDP
Diagnostic and Statistical Manual of Mental Disorders	DSM-IV-TR
American Medical Association Current Procedural Terminology	AMA CPT
Point of Origin for Admission or Visit	Source of Admission

Comment [WJC1]: The standards from the DOE for Part C are very similar, but require more detailed data collection. This should be considered when implementing this standard.

Comment [alh2]: What CDC codes from PHIN should be included?
<http://www.cdc.gov/phir/activities/standards/vocabulary/index.html>

Comment [alh3]: Which NCPDP standards should be included?
http://www.ncdp.org/standards_listing.aspx

<i>Codes for the Identification of the States, the District of Columbia, Puerto Rico, and the Insular Areas of the United States</i>	INCITS 38
<i>Common Data Standards Initiative Vocabulary</i>	CDS Vocabulary

Comment [slm4]: Which CHI standards (<http://www.hhs.gov/healthit/chiinitiative.html>) should be included?

Vocabulary Data Standards Descriptions

CVX

Maintained By

Centers for Disease Control and Prevention (CDC) National Center of Immunization and Respiratory Diseases (NCIRD)

Description

CVX is HL7 Table 0292, Vaccine Administered (CVX). It includes both active and inactive vaccines available in the U.S. (CDC)

Use

[when should it be used?]

Comment [v5]: Not adopted by DCLS

Version(s) to Use

<text>

Availability

Excel, PDF, flat and XML format files are available for free from the CDC website.

Website

<http://www2a.cdc.gov/nip/IIS/IISStandards/vaccines.asp?rpt=cvx>

Enzyme Nomenclature

Maintained By

Nomenclature Committee of the International Union of Biochemistry and Molecular Biology (NC-IUBMB)

Description

List contains the accepted names of enzymes

Comment [alh6]: Needs additional clarification

Use

[when should it be used?]

Version(s) to Use

<text>

Availability

A searchable database and lists by Enzyme Code (EC) are available for free on the IUBMB website.

Website

<http://www.chem.qmul.ac.uk/iubmb/enzyme/>

Comment [v7]: The Nomenclature Committee of the International Union of Biochemistry and Molecular Biology (NC-IUBMB) in consultation with the IUPAC-IUBMB Joint Commission on Biochemical Nomenclature (JCBN) Enzyme Nomenclature is used to classify reactions they catalyse. Recommended for use in reporting Newborn Screening results.

Codes for the Identification of Counties and Equivalent Entities of the United States, its Possessions, and Insular Areas (INCITS 31)

Maintained By

American National Standards Institute (ANSI)

Description

ANSI codes are a standardized set of numeric or alphabetic codes issued by the American National Standards Institute (ANSI) to ensure uniform identification of geographic entities through all federal government agencies. INCITS 31:2009 specifically covers counties and statistically equivalent entities.

This was previously known as the Federal Information Processing Standard (FIPS) Code 6-4. The FIPS standard was withdrawn by National Institute of Standards and Technology (NIST) as a Federal Information Processing Standard on September 2, 2008 [Federal Register, September 2, 2008 (Volume 73, Number 170), page 51276, <http://edocket.access.gpo.gov/2008/E8-20138.htm>]. (U.S. Census Bureau)

Use

[when should it be used?]

Version(s) to Use

ANSI INCITS 31:2009

Availability

A common-delimited file is available for free on the U.S. Census Bureau website (<http://www.census.gov/geo/www/ansi/download.html>).

Website

<http://www.census.gov/geo/www/ansi/ansi.html>

Health Level 7 Vocabulary (HL7 Vocabulary)

Maintained By

Health Level 7

Description

"Version 2 Messages, formally published as "Application Protocol for Electronic Data Exchange in Healthcare Environments" is an interoperability specification for transactions produced and received by computer systems. These specifications are published as a collection of chapters that describe the transaction interactions by domain.

Comment [v8]: Need to define HL7 tables

Version 3 Messages is an interoperability specification for transactions that are derived from the HL7 V3 Foundation models and vocabulary and define communications produced and received by computer systems. V3 Messages include the concepts of message wrappers, sequential interactions, and model-based message payloads. These specifications are published as a collection of topics that describe the transaction interactions by domain."

Comment [alh9]: Need clarification on exactly what vocab is used

Use

Used to report Patient demographic information such as Race, Ethnicity, Sex, Next of KIN and message type and version release.

Comment [slm10]: Need to reconcile HL7, OMB, CDS as all appear to be used for the same or similar data.

Version(s) to Use

<text>

Availability

Membership at the organizational, support or benefactor level to HL7 is required to access the standard documentation. Documentation may also available as part of software packages that handle HL7 messages.

Website

<http://www.hl7.org>

International Classification of Diseases, Ninth Revision, Clinical

Modification (ICD-9-CM)

Maintained By

U.S. Department of Health and Human Services; ICD-9-CM Coordination and Maintenance Committee (comprised of U.S. National Center for Health Statistics [NCHS] and the Centers for Medicare and Medicaid Services [CMS])

Description

"The International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) is based on the World Health Organization's Ninth Revision, International Classification of Diseases (ICD-9). ICD-9-CM is the official system of assigning codes to diagnoses and procedures associated with hospital utilization in the United States." (CDC) "ICD-9 classifies morbidity and mortality information for statistical purposes, and for the indexing of hospital records by disease and operations, for data storage and retrieval."

Use

Recording clinical diagnoses and procedures.

Version(s) to Use

Sixth Edition

Availability

Rich Text Format (RTF) files can be downloaded for free from the CDC website below. A CD-ROM containing Folio InfoBase format files can be purchased from the [U.S. Government Printing Office](#). Various vendors provide subscriptions; DBHDS uses Ingenix.

Website

<http://www.cdc.gov/nchs/icd/icd9cm.htm>

International Classification of Diseases, Tenth Revision (ICD-10)

Maintained By

World Health Organization (WHO)

Description

"The ICD is the international standard diagnostic classification for all general epidemiological, many health management purposes and clinical use. These include the analysis of the general health situation of population groups and monitoring of the incidence

and prevalence of diseases and other health problems in relation to other variables such as the characteristics and circumstances of the individuals affected, reimbursement, resource allocation, quality and guidelines.

It is used to classify diseases and other health problems recorded on many types of health and vital records including death certificates and health records. In addition to enabling the storage and retrieval of diagnostic information for clinical, epidemiological and quality purposes, these records also provide the basis for the compilation of national mortality and morbidity statistics by WHO Member States." (WHO)

U.S. National Center for Health Statistics (NCHS) "is using a copy modified and corrected by NCHS. The NCHS version converts the English spellings to American spellings and incorporates changes made after the WHO version was published." (CDC)

Use

[when should it be used?]

Comment [v11]: Not used by DCLS

Version(s) to Use

<text>

Availability

The vocabulary is available in HTML format on the WHO website for free. Print, CD-ROM, and downloadable versions can be purchased from the WHO website. NCHS lists of causes used to publish mortality data are available. The detailed each cause list can be obtained from the Web site at ftp://ftp.cdc.gov/pub/Health_Statistics/NCHS/Publications/ICD10/" (according to <http://www.cdc.gov/nchs/data/dvs/icd10fct.pdf>). Centers for Medicare and Medicaid Services (CMS) has a website (<http://www.who.int/classifications/icd/en/>) detailing the transition from ICD-9 to ICD-10.

Website

<http://www.who.int/classifications/icd/en/>

ISO 3166 Country Codes (ISO Country Codes)

Maintained By

International Organization for Standardization (ISO)

Description

"The existence of various country codes developed by different organizations can be confusing if you exchange goods or information in our ever more integrated world. To make sure that communication works you need an accepted, up-to-date country code standard.

ISO 3166 is this commonly accepted International Standard and the ISO 3166/MA has been updating it since 1974." (ISO)

Use

[when should it be used?]

Version(s) to Use

<text>

Availability

The list of short country names and alpha-2 code elements from ISO 3166-1 are available on the ISO website in HTML, semicolon delimited text and XML formats. Microsoft Access 2000 databases as well as printed copies are available for order on the ISO website.

Website

http://www.iso.org/iso/country_codes.htm

Logical Observation Identifiers Names and Codes (LOINC)

Maintained By

Regenstrief Institute, Inc

Description

"The purpose of LOINC® is to facilitate the exchange and pooling of clinical results for clinical care, outcomes management, and research by providing a set of universal codes and names to identify laboratory and other clinical observations." (Regenstrief)

Use

Used to order laboratory tests and to report testing method performed to derive clinical result.

Version(s) to Use

<text>

Availability

Microsoft Access and tab-delimited formats files can be downloaded for free from the LOINC website.

Website

<http://www.loinc.org>

MVX

Maintained By

Centers for Disease Control and Prevention (CDC) National Center of Immunization and Respiratory Diseases (NCIRD)

Description

MVX is HL7 Table 0227, Manufacturers of Vaccines (MVX). It includes both active and inactive manufacturers of vaccines in the U.S. (CDC)

Use

[when should it be used?]

Comment [v12]: Not used by DCLS

Version(s) to Use

<text>

Availability

Excel, PDF, flat and XML format files are available for free from the CDC website.

Website

<http://www2a.cdc.gov/nip/IIS/IISStandards/vaccines.asp?rpt=mvx>

National Immunization Program Current Procedural Terminology (NIP CPT)

Maintained By

American Medical Association and Centers for Disease Control and Prevention

Description

List cross-references Current Procedural Terminology (CPT™) codes that are related to vaccines, toxoids and immune globulins with their corresponding CVX codes

Use

[when should it be used?]

Comment [v13]: Not used by DCLS

Version(s) to Use

<text>

Availability

Excel, PDF, flat and XML format files are available for free from the CDC website.

Website

<http://www2a.cdc.gov/nip/IIS/IISStandards/vaccines.asp?rpt=cpt>

Comment [alh14]: I'm not sure this is the correct website

Office of Management and Budget, Statistical Policy Directive No. 15, Race and Ethnic Standards for Federal Statistics and Administrative Reporting (OMB)

Maintained By

Office of Management and Budget

Description

OMB's Statistical Policy Directive No. 15 provided a common language to promote uniformity and comparability for data on race and ethnicity for the population groups specified in the Directive. They were developed in cooperation with Federal agencies to provide consistent data on race and ethnicity throughout the Federal Government.

Use

[when should it be used?]

Comment [v15]: Not used by DCLS

Version(s) to Use

<text>

Availability

The list is available on the OMB website for free.

Website

http://www.whitehouse.gov/omb/fedreg_1997standards/

Online Mendelian Inheritance in Man (OMIM)

Maintained By

McKusick-Nathans Institute of Genetic Medicine, Johns Hopkins University School of Medicine

Description

"OMIM is a comprehensive, authoritative, and timely compendium of human genes and genetic phenotypes. The full-text, referenced overviews in OMIM contain information on all known mendelian disorders and over 12,000 genes. OMIM focuses on the relationship between phenotype and genotype." (NLM)

Use

Used to identify and report genetic disorders detected during Newborn Screening testing. Version(s) to Use

<text>

Availability

The searchable database is available on the National Library of Medicine website for free.

Website

<http://www.ncbi.nlm.nih.gov/omim>

Public Health Laboratory Interoperability Project (PHLIP) Codes

Maintained By

Association of Public Health Laboratories (APHL)

Description

When a LOINC and/or SNOMED CT code is not available for an APHL or CDC specific data exchange, APHL will assign a local code for data exchange between public health labs and CDC that is used to convey the test ordered or the result determined.

Aggregation of multiple code sets used specifically for PHLIP messaging; while these sets are largely defined elsewhere (e.g., SNOMED and LOINC), many codes are specific to the PHLIP project.

Comment [alh16]: Needs clarification

Use

Used by Public Health Laboratories throughout the nation to convey test ordered, methods performed, and results reported that are specific to an APHL or CDC project.

Availability

PHIN_VADS

Website

<http://www.aphl.org/aphlprograms/informatics/collaborations/phlip/pages/default.aspx>

RxNorm (RxNorm)

Maintained By

U.S. National Library of Medicine (NLM)

Description

"RxNorm provides normalized names for clinical drugs and links its names to many of the drug vocabularies commonly used in pharmacy management and drug interaction software, including those of First Databank, Micromedex, MediSpan, Gold Standard Alchemy, and Multum. By providing links between these vocabularies, RxNorm can mediate messages between systems not using the same software and vocabulary.

RxNorm now includes the National Drug File - Reference Terminology (NDF-RT) from the Veterans Health Administration. NDF-RT is a terminology used to code clinical drug properties, including mechanism of action, physiologic effect, and therapeutic category." (NML)

Use

To report clinical test results and specimen source types.

Version(s) to Use

<text>

Availability

The U.S. National Library of Medicine (NLM) distributes RxNorm for free on their website to organizations, under the terms of the standard IHTSDO affiliate license which is included in the Unified Medical Language System (UMLS) license agreement (<https://uts.nlm.nih.gov/license.html>).

Website

<http://www.nlm.nih.gov/research/umls/rxnorm/>

Systemized Nomenclature of Medicine-Clinical Terms (SNOMED CT)

Maintained By

International Health Terminology Standards Development Organisation (IHTSDO)

Description

SNOMED CT is a "multilingual clinical healthcare terminology" used "to accurately record health care encounters." (IHTSDO)

Use

To report clinical test results and specimen source types

Version(s) to Use

<text>

Availability

The U.S. National Library of Medicine (NLM) distributes SNOMED CT for free to organizations, under the terms of the standard IHTSDO affiliate license which is included in the Unified Medical Language System (UMLS) license agreement. SNOWMED CT can be downloaded or received on DVD by requesting a UMLS Metathesaurus license and creating a UMLS Terminology Services (UTS) account at <https://uts.nlm.nih.gov/home.html>.

Website

<http://www.ihtsdo.org/>

Unified Code for Units of Measure (UCUM)

Comment [v17]: Need to define minimum code set supported within UCUM.

Maintained By

Regenstrief Institute, Inc

Description

"The Unified Code for Units of Measure is 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." (Regenstrief)

Use

Used in reporting of clinical laboratory results and testing methods performed

Version(s) to Use

<text>

Availability

HTML and XML documents are available for free on the UCUM website

Website

<http://unitsofmeasure.org/>

American Medical Association Current Procedural Terminology (AMA CPT)

Maintained By

American Medical Association

Description

Describes medical, surgical, and diagnostic services.

Use

"To communicate uniform information about medical services and procedures among physicians, coders, patients, accreditation organizations, and payers for administrative, financial, and analytical purposes. "

Version(s) to Use

2010

Availability

Data files are available for purchase through the AMA website and are provided in ASCII text (TXT) format.

Website

<http://www.ama-assn.org/ama/pub/physician-resources/solutions-managing-your-practice/coding-billing-insurance/cpt/about-cpt.shtml>.

Diagnostic and Statistical Manual of Mental Disorders (DSM-IV-TR)

Maintained By

American Psychiatric Association

Description

"The *Diagnostic and Statistical Manual of Mental Disorders (DSM)* is the standard classification of mental disorders used by mental health professionals in the United States. It is intended to be applicable in a wide array of contexts and used by clinicians and researchers of many different orientations (e.g., biological, psychodynamic, cognitive, behavioral, interpersonal, family/systems). The *Diagnostic and Statistical Manual of Mental*

Disorders, Fourth Edition (DSM-IV) has been designed for use across clinical settings (inpatient, outpatient, partial hospital, consultation-liaison, clinic, private practice, and primary care), with community populations. It can be used by a wide range of health and mental health professionals, including psychiatrists and other physicians, psychologists, social workers, nurses, occupational and rehabilitation therapists, and counselors. It is also a necessary tool for collecting and communicating accurate public health statistics." (APA)

Use

For classifying behavioral health and developmental disorders. *(Collected in CCS3, Avatar, Juvenile Restoration to Competency, and FIMS, not YSS-F or CARS. Reported in MH and SA federal block grant reports, as well as the above apps.)*

Version(s) to Use

DSM IV-TR (DSM IV Text Release)

Availability

Obtain a copy in book form via American Psychiatric Publishing, Inc, ISBN 978-0-89042-025-6. Obtain an institutional subscription for electronic access by contacting the following:

American Psychiatric Publishing, Inc.
1000 Wilson Boulevard, Suite 1825
Arlington, Virginia 22209
Phone: (703) 907-8538; (800) 368-5777, ext. 8538
Fax: (703) 907-1091
Email: institutions@psych.org
www.appi.org

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Fax: 508-750-4470
E-mail: info@copyright.com
Web: www.copyright.com

Website

<http://www.PsychiatryOnline.com>, <http://www.psych.org/MainMenu/Research/DSMIV.aspx>

Point of Origin for Admission or Visit (Source of Admission)

Maintained By

National Uniform Billing Committee and the Centers for Medicare and Medicaid Services

Description

"The provider enters the code indicating the source of referral for this admission or visit."

Use

Upon admission of a patient to any Department of Behavioral Health and Developmental Services facility.

Version(s) to Use

Per Change Request (CR) # 6801, effective date July 1, 2010

Availability

Publications and subscriptions are available from the National Uniform Billing Committee and the Centers for Medicare and Medicaid Services.

Website

<http://www.nubc.org> and <http://www.cms.gov>

Codes for the Identification of the States, the District of Columbia, Puerto Rico, and the Insular Areas of the United States (INCITS 38)

Maintained By

American National Standards Institute

Description

ANSI codes are a standardized set of numeric or alphabetic codes issued by the American National Standards Institute (ANSI) to ensure uniform identification of geographic entities through all federal government agencies. INCITS 38:2009 specifically covers states and statistically equivalent entities.

This was previously known as the Federal Information Processing Standard (FIPS) Code 5-2. The FIPS standard was withdrawn by National Institute of Standards and Technology (NIST) as a Federal Information Processing Standard on September 2, 2008 [Federal Register,

September 2, 2008 (Volume 73, Number 170), page 51276,
<http://edocket.access.gpo.gov/2008/E8-20138.htm>]. (U.S. Census Bureau)

Use

Upon admission of a patient to any Department of Behavioral Health and Developmental Services facility.

Version(s) to Use

ANSI INCITS 38:2009

Availability

A common-delimited file is available for free on the U.S. Census Bureau website (<http://www.census.gov/geo/www/ansi/download.html>).

Website

<http://www.census.gov/geo/www/ansi/ansi.html>

Common Data Standards Initiative Vocabulary (CDS Vocabulary)

Maintained By

Common Data Standards Initiative (CDS)

Description

The Common Data Standards (CDS) Initiative is a national, collaborative effort to develop voluntary, common data standards for a key subset of K-12 (e.g., demographics, program participation, course information) and K12-to-postsecondary education transition variables. Participants in the Initiative include representatives from states, districts, higher education organizations, and key non-profit organizations. The CDS Initiative's goal is to identify a list of key K-12 and K12-to-postsecondary transition variables (expansion into Pre-K and the workforce will be considered in the future) and agree upon standard definitions, code sets, business rules, and technical specifications for those variables. This will increase data interoperability, portability, and comparability across states, districts, and higher education organizations.

The Education Science Reform Act of 2002 gave the National Center for Education Statistics (NCES) the authority to determine voluntary standards and guidelines to assist state educational agencies in developing statewide longitudinal data systems (SLDSs). To this end, NCES is working with key stakeholders to develop standards for a core set of data elements to ensure that states create P-20 data systems that meet the goals of the American Recovery and Reinvestment Act of 2009. Standard data definitions will help ensure that data shared across institutions are consistent and comparable. This, in turn, will

make it easier to transfer student data from one school or level of education to another, and permit states to learn how students fare as they move across institutions, state lines, and school levels. (Common Data Standards Initiative)

Use

Early Intervention

Version(s) to Use

1.0

Availability

A free download in Excel or PDF from
<http://www.commondatastandards.org/elements.html>.

Website

<http://www.commondatastandards.org>

Health Vocabulary Data Standard Compliance

As of January 1, 2015, Agencies implementing new applications or upgrading applications that exchange health information with any other agency or external entity must comply with all aspects of the Health Vocabulary Data Standard prior to production use of the application.

Agencies and Institutions which are unable to comply with the standard must inform the Data Standard Owners using the VITA Exception Form available at [Enterprise Architecture Exception Request Form](#). The completed form should be emailed to ea@vita.virginia.gov.

General Guidance

- Where standards leave room for interpretation, standards will be harmonized across agencies, applications, health IT projects and data exchange processes.
- To the fullest extent possible, a common framework and infrastructure will be utilized for the development, maintenance, and adoption of health information data and messaging standards.
- Data standards adopted will be used to promote semantic interoperability across health information systems, as well as the efficient and effective sharing of data.
- Standards based data exchange will be used to breakdown artificial boundaries between health information systems.
- xxxxxxxx