Bridging SNOMED CT and International Classifications +
other clinical terminology news

Report to the National Committee on Vital and Health Statistics

Presented by:

Betsy Humphreys, Deputy Director
Vivian Auld, Senior Specialist for Health Data Standards
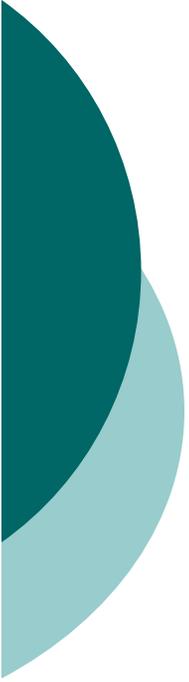National Library of Medicine

February 10, 2011

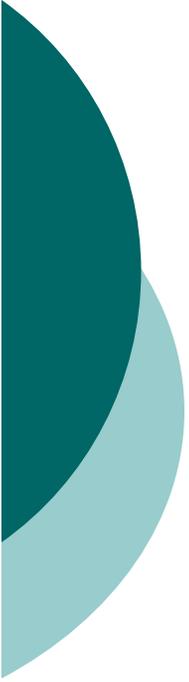DEPARTMENT OF HEALTH
AND HUMAN SERVICES

Current NLM Roles

- Distributor of HIPAA classifications & code sets *AND* terminologies required for EHR certification within UMLS
- Designated HHS coordinating body for clinical terminologies
- LOINC: a major funder
- RxNorm: developer
- SNOMED CT: payer of US IHTSDO membership that enables US use

SNOMED CT *and*

- ICD-9-CM
  - Crosswalk distributed by IHTSDO along with the International Release of SNOMED CT
  - Initially created by CAP prior to transfer of SNOMED CT IP

SNOMED CT *and*

- ICD-10 (basic WHO version)
  - Joint IHTSDO/WHO mapping project
  - Jim Campbell, chair, NLM & US active participants
  - IHTSDO workbench mapping component in development
  - Want to help? See: www.ihtsdo.org

Request for Proposal for SNOMED CT to ICD-10 Mapping Project (Phase 1) - Map Specialist Staffing

The IHTSDO invites tenders in response to this Request For Proposal (RFP), which is for 2 Full time Map Specialists for a period of 18 weeks, each to contribute to the work of the Phase 1 of the mapping SNOMED CT to ICD 10 project. The timelines following the issue of this RFP are as follows:

- Responses by 22 February 2011
- Confirmation of successful tender(s) 25th February 2011
- Commencement of work 7th March 2011
- Completion of contract 15th July 2011

Unified Medical Language System® (UMLS®)

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2010AB International Classification of Diseases, 10th Edition, Clinical Modification Source Information

| Synopsis | MRSAB.RRF | Statistics and Sample data | Representation |

| Terms and term types | Attributes | Relationships | Semantic Types | Source Overlap |

Counts (skip to: notes)

Source	Number of shared concepts out of 97664 from ICD10CM_2010_03	Percentage Overlap
SNOMEDCT_2010_07_31	11697	12
SCTSPA_2010_04_30	11648	11.9
RCD99	10718	11
ICD10AM_2000	9100	9.3
ICD10_1998	8150	8.3
KCD5_2008	7816	8
SNMI98	6920	7.1

- ICD-10-PCS has <1% detected synonymy with any other source in UMLS Metathesaurus

U.S. National Library of Medicine

NLM National Institutes of Health

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Home > Biomedical Research & Informatics > UMLS > UMLS Source Release Documentation

2009AA International Classification of Functioning, Disability and Health (ICF) Source Information

Synopsis | MRSAB.RRF | Statistics and sample data
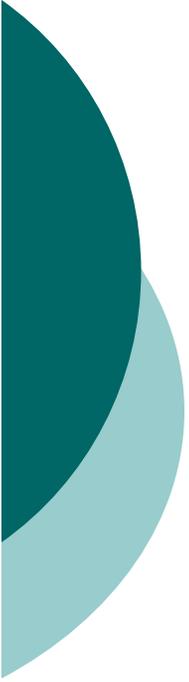
Terms and term types | Attributes | Relationships | Semantic Types | **Source Overlap**

Counts (skip to: notes)

Source	Number of shared concepts out of 1435 from ICF_2008_12_19	Percentage Overlap
ICF-CY_2008	1427	99.4
SCTSPA_2008_10_31	270	18.8
SNOMEDCT_2009_01_31	270	18.8
SNMI98	221	15.4
MSHFRE2009	219	15.3
MSH2009_2009_02_13	219	15.3
RCD99	215	15

SNOMED CT *and*

- ICD-10-CM
  - Mapping project participants: NLM, CDC/NCHS, Jim Campbell
    - CMS participation requested
  - Developing overall project plan, use case, tooling (mapping component of IHTSDO workbench)
  - Essentially in holding pattern, pending:
    - CMS input
    - Funding for development and ongoing maintenance

UMLS Terminology Services

Unified Medical Language System ®

Welcome »

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Training

Welcome to the UTS

The UMLS Terminology Services (UTS) allows you to:

- Request a UMLS Metathesaurus License and create a UTS account
- Search and display content from UTS Applications including:
  - Metathesaurus Browser
  - Semantic Network Browser
  - SNOMED CT Browser
- Download data files including:
  - UMLS Knowledge Sources
  - RxNorm weekly and monthly updates
  - SNOMED CT
  - CORE Problem List and Route of Administration Subsets of SNOMED CT
- Query data remotely via Web Services (see API Documentation)
- Complete UMLS Annual Report and SNOMED CT® Affiliate Reports

Other SNOMED CT *developments*

- Now available from NLM:
  - SNOMED CT Browser via UTS
    - Uses synonymy from 150+ sources in the UMLS Metathesaurus to enhance results
- Coming soon in basic fashion:
  - US Extension (April 2011)
  - US Request Submission System (Summer 2011)
- In development by IHTSDO/NLM:
  - International collaborative editing via workbench (2012)

UMLS Terminology Services
SNOMED CT Browser

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Welcome back, vivianaa

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SNOMED CT Version: 2010_07_31

◉ Term ○ ConceptID ○ DescriptionID

| inflamed eye | | Go |

Active concepts only: ☑

Restrict results to: —None—   ▼

Report View

⊖ **Concept: [359610006] Ocular hyperemia**

UMLS Information

CUI: [C0155169] Ocular hyperemia

Semantic Types: Disease or Syndrome [T047]

ConceptStatus	IsPrimitive	SnomedId	CTV3Id
Current (0)	0	DA-70006	XU6pO

⊖ **Descriptions (5)**

730783017	Ocular hyperemia (disorder)	FullySpecifiedName (3)	Current (0)
473809013	Ocular hyperemia	Preferred (1)	Current (0)
473810015	Hyperaemia of eyes	Synonym (2)	Current (0)
473807010	Hyperemia of eyes	Synonym (2)	Current (0)
473808017	Ocular hyperaemia	Preferred (1)	Current (0)

⊕ **Parents (1)**

⊕ **Children (1)**

⊕ **Relationships from *this* concept (6)**

⊕ **Relationships to *this* concept (2)**

⊕ **Tree Positions (8)**

SNOMED CT *Subsets*

○ Available now from NLM:
  ○ CORE Problem List Subset
  ○ Route of Administration (ROA)
    ● Developed with FDA and NCPDP
○ Coming soon:
  ○ Nursing Problem List (March 2011)
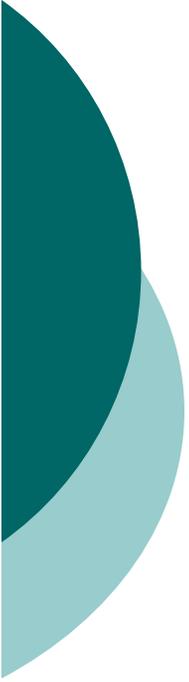   ● Developed with oversight from IHTSDO Nursing SIG

Kaiser Permanente opens access to internal medical terminology to help others meet HHS' goals for better use of health information technology

Convergent Medical Terminology tools allow clinicians to use familiar language to achieve standard electronic health information exchange

WASHINGTON, DC., September 29, 2010 — Kaiser Permanente today donated its Convergent Medical Terminology (CMT) to the International Healthcare Terminology Standards Development Organisation (IHTSDO©) for U.S. distribution through the U.S. Department of Health and Human Services (HHS) so that all health care providers—large and small—can benefit from the translation-enabling technology.

New IHTSDO Policy Facilitates Inclusion of SNOMED CT Terms and Identifiers in International Research Databases, Other Health IT Standards

Copenhagen, Denmark: January 28th, 2011.

RxNorm News

- RxNorm's National Drug Code (NDC) coverage improved (2/2011)
  - Includes revised, filtered version of NDC data that segregates obsolete NDCs
  - First DataBank NDCs included in RxNorm for the first time.
- CMS-sponsored Rand study found RxNorm coverage of ambulatory prescriptions = ~100%

RxNav

A Semantic Navigation Tool for Clinical Drugs

Lister Hill National Center for Biomedical Communications

Download and install the latest Java Runtime Environment (JRE) and the RxNorm Navigator

NEW: API for RxTerms. Click here for more information.
Coming soon: API for NDF-RT. Visit this page in the next few weeks for the announcement of the API release.

Introduction

RxNav is a browser for RxNorm, the NLM repository of standard names for clinical drugs. RxNav displays links from clinical drugs, both branded and generic, to their active ingredients, drug components and related brand names. RxNorm is one of a suite of designated standards for use in U.S. Federal Government systems for the electronic

LOINC®
Logical Observation Identifiers Names and Codes

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LOINC Version 2.34 and RELMA Version 5.0 Available

last modified 2010-12-29 16:26

Current versions of LOINC and RELMA released December 29, 2010.

LOINC 2.34, released: December 29, 2010
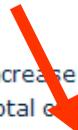**RELMA 5.0**, released: December 29, 2010

LOINC and RELMA User's Guides: December 2010

➧ **Go to Available Downloads**

New Features

New LOINC Content

LOINC version 2.34 contains 61,255 terms, an increase of 2288 since the June 2010 version. Approximately 695 terms have been edited. A total of 1,704 terms have been deprecated. Highlights included in this release are the PROMIS survey ⬀, additional PhenX terms ⬀, cephalometrics te... to work with the ACLA in th...

terms

LOINC Usage

📊 Frequency-based LOINC collections

Empirically-derived collections and and other data about LOINC usage in information systems.

📝 Value set of universal laboratory order codes from LOINC

The purpose of this value set is to define a set of universal laboratory order codes that would be recommended and adopted by developers of order entry systems for delivery in HL7

U.S. National Library of Medicine

Newborn Screening Coding and Terminology Guide

Data Standards for Electronic Reporting

The goal of the Newborn Screening Coding and Terminology Guide is to promote and facilitate the use of electronic health data standards in recording and transmitting newborn screening test results. The Web site includes standard codes and terminology for newborn tests and the conditions for which they screen, and links to other related sites. The codes and vocabulary standards are provided in a series of tables that you can view on the Web and/or download for your own use. These tables cover conditions recommended for screening by the Secretary's Advisory Committee on Heritable Disorders in Newborns and Children (SACHDNC) or by a state within the U.S.

Use of these standards can speed the delivery of newborn screening reports, facilitate the care and follow-up of infants with positive test results, enable the use (and comparison) of data from different laboratories, and support the development of strategies for improving the newborn screening process.

This website also includes draft guidance for creating an HL7 version 2.x message using these codes with examples. If you would like us to notify you about updates to this guidance and other new content, please subscribe to the RSS feed for Updates, or join the NBS-Announcements e-mail list from the U.S. National Library of Medicine.

You can reach these various resources by picking a choice below.

Views: Generate customized Web views from the tables of conditions and analytes/measurements maintained by the U.S. National Library of Medicine (NLM®).

- **Conditions** — Conditions that are targeted by newborn screening
- **Analytes/Measurements** — Tests that are used as markers for newborn screening conditions
- **Tailored Views** — Specify subsets, or see relationships between conditions and analytes/measurements

Downloads: Download the tables of newborn screening conditions, of markers for these conditions and/or of mappings between conditions and their markers

MedlinePlus Connect –
option for EHRs >> patient-specific education material

November 9th Release

- Problems
  - English & Spanish
  - Returns 1-3 matching MedlinePlus Topics
  - Accepts ICD-9-CM or SNOMED CT CORE codes
- Medications
  - English only
  - Accepts RxNorm CUIs or NDCs
- Supports the HL7 Infobutton Knowledge Request URL-Based Implementation specification

Next Releases

- XML Web Services Web services
- Lab tests
  - English (possibly Spanish)
  - LOINC