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Issue Completed December 29, 2014

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NLM Resource Update: TOXNET Now Provides Permalinks to Individual Records

NLM Resource Update: TOXNET Now Provides Permalinks to Individual Records. NLM Tech Bull. 2014 Nov-Dec;(401):b9.

2014 December 22 [posted]

[Editor's Note: This is a reprint of an announcement published on NLM-Tox-Enviro-Health-L, an e-mail announcement list available from the NLM Division of Specialized Information Services. To subscribe to this list, please see the NLM-TOX-ENVIRO-HEALTH-L Join, Leave, or Change Options page.]

Permanent links to the National Library of Medicine (NLM) TOXNET records are now provided for the Hazardous Substances Data Bank (HSDB), TOXLINE, LactMed, Developmental and Reproductive Toxicology Database (DART), Toxics Release Inventory (TRI), Comparative Toxicogenomics Database (CTD), Integrated Risk Information System (IRIS), International Toxicity Estimates for Risk (ITER), Chemical Carcinogenesis Research Information System (CCRIS), and GENE-TOX.

To create a permanent link, click on the "Permalink" button found in the upper right of a TOXNET record. This provides a pop-up window with a URL to share or to save for retrieving the record at a later time.

TOXNET (TOXicology Data NETwork) is a group of databases covering chemicals and drugs, diseases and the environment, environmental health, occupational safety and health, poisoning, risk assessment and regulations, and toxicology. It is managed by the Toxicology and Environmental Health Information Program (TEHIP) in the Division of Specialized Information Services (SIS) of the National Library of Medicine (NLM). A mobile version of TOXNET is available.

Information in the TOXNET databases covers:

- Specific chemicals, mixtures, and products
- Chemical nomenclature
- Unknown chemicals
- Special toxic effects of chemicals in humans and/or animals
- Citations from the scientific literature.

TOXNET provides links to PubMed, the NLM free Web interface to the world's biomedical literature, and to additional sources of toxicological information.

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Newly Maintained MEDLINE for 2015 MeSH Now Available in PubMed

Newly Maintained MEDLINE for 2015 MeSH Now Available in PubMed. NLM Tech Bull. 2014 Nov-Dec;(401):b8.

2014 December 15 [posted]

As of December 15, PubMed/MEDLINE citations (including the backlog of citations indexed since November 19 with 2015 MeSH), the MeSH database, and the NLM Catalog were updated to reflect 2015 MeSH. The MeSH translation tables were also updated on December 15. Now that end-of-year activities are complete, MEDLINE/PubMed may be searched using 2015 MeSH vocabulary. See *MEDLINE Data Changes — 2015* for details on the data changes. On December 16, NLM will resume daily MEDLINE updates to PubMed.

Other pertinent articles:

MEDLINE/PubMed Year-End Processing Activities

2015 MeSH Now Available

MeSH Browser Now Updated More Frequently

MEDLINE Data Changes - 2015

What's New for 2015 MeSH

Cataloging News - 2015

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New and Updated Terminology Release Files Available

New and Updated Terminology Release Files Available. NLM Tech Bull. 2014 Nov-Dec;(401):b7.

2014 December 15 [posted]

NLM is pleased to announce three new files available for download:

- A new Convergent Medical Terminology (CMT) Release file from Kaiser Permanente. The Common Lab Procedures list subset includes the most common lab procedure concepts in use at Kaiser Permanente that are mapped to both Current Procedural Terminology (CPT) and Logical Observation Identifiers Names and Codes (LOINC). There are 347 concepts in this file. SNOMED CT concepts are based on the January 2014 International Release.
- An updated ICD-9-CM Diagnostic Codes to SNOMED CT mapping file is now available for download. The map is based on ICD-9-CM 2013 and the September 2014 US Edition of SNOMED CT.
- An updated ICD-9-CM Procedure Codes to SNOMED CT map is also available. The map is based on ICD-9-CM 2013 and the September 2014 US Edition of SNOMED CT.

All three release files are available for download from the UMLS Terminology Services (UTS) by UMLS licensees.

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NLM Resource Update: TOXMAP Now Includes EPA Coal Plant Emissions Data

NLM Resource Update: TOXMAP Now Includes EPA Coal Plant Emissions Data. NLM Tech Bull. 2014 Nov-Dec;(401):b6.

2014 December 10 [posted]

The National Library of Medicine (NLM) TOXMAP new Flash-based beta now includes 2013 coal emissions data published by the US EPA Clean Air Markets program.

Data was obtained from the Air Markets Program Data (AMPD) tool, a publicly-available data system for searching and downloading data collected as part of EPA emissions trading programs. In 2013, about 2.1 billion metric tons of carbon dioxide emissions were attributable to electricity generated from coal.

TOXMAP is a Geographic Information System (GIS) from NLM that uses maps of the United States to help users visually explore data from the EPA Toxics Release Inventory (TRI) and Superfund Programs.

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Thai Clinical Trials Registry Added to the MEDLINE Databank Sources

Thai Clinical Trials Registry Added to the MEDLINE Databank Sources. NLM Tech Bull. 2014 Nov-Dec;(401):b5.

2014 December 04 [posted]

NLM will be including the databank name for the Thai Clinical Trials Registry (TCTR) starting with citations to articles published in 2014. TCTR is a World Health Organization (WHO) primary clinical trial registry. The MEDLINE Databank Sources Web page has been updated to include this new listing.

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Table of Contents: 2014 NOVEMBER–DECEMBER No. 401

SNOMED CT: Updated CORE Subset Available

SNOMED CT: Updated CORE Subset Available. NLM Tech Bull. 2014 Nov-Dec;(401):b4.

2014 December 04 [posted]

The updated Clinical Observations Recording and Encoding (CORE) Problem List Subset is now available for download. This subset is based on the July 2014 International Release of SNOMED CT and the 2014AB UMLS Release.

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NLM Resource Update: Drawing A Chemical Structure With NLM ChemID*plus*

NLM Resource Update: Drawing A Chemical Structure With NLM ChemID*plus*. NLM Tech Bull. 2014 Nov-Dec;(401):b3.

2014 November 21 [posted]

[Editor's Note: This is a reprint of an announcement published on NLM-Tox-Enviro-Health-L, an e-mail announcement list available from the NLM Division of Specialized Information Services. To subscribe to this list, please see the NLM-TOX-ENVIRO-HEALTH-L Join, Leave, or Change Options page.]

You can draw a chemical structure and search for similar substances in the National Library of Medicine (NLM) ChemID*plus* Advanced search interface.

You can find a quick tutorial on how to use the drawing feature of ChemID*plus* at: http://nnlm.gov/ntc/2014/11/19/drawing-a-chemical-structure/.

ChemID*plus* is a dictionary of over 400,000 chemicals (names, synonyms, and structures). It includes links to NLM and to other databases and resources, including ones to federal, state and international agencies.

ChemID*plus* Lite is designed for simple searching on name or registry.

ChemID*plus* Advanced helps users draw their own structures and perform similarity and substructure searches.

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NLM Resource Update: Chemical Hazards Emergency Medical Management (CHEMM)

NLM Resource Update: Chemical Hazards Emergency Medical Management (CHEMM). NLM Tech Bull. 2014 Nov-Dec;(401):b2.

2014 November 13 [posted]

[Editor's Note: This is a reprint of an announcement published on NLM-Tox-Enviro-Health-L, an e-mail announcement list available from the NLM Division of Specialized Information Services. To subscribe to this list, please see the NLM-TOX-ENVIRO-HEALTH-L Join, Leave, or Change Options page.]

The National Library of Medicine (NLM) has released a new version of Chemical Hazards Emergency Medical Management (CHEMM).

New or updated content in CHEMM includes:

1. updated and enhanced content on Decontamination Procedures, Discovering the Event, and Training and Education
2. an NIH CounterACT Program funded database with information on twenty-two medical countermeasures (including efficacy, relevant publications, research in progress, FDA and other global regulatory status information)
3. content for how emergency responders can recognize and handle events dealing with toxic gases generated by the combinations of consumer products or common household chemicals
4. a workshop report describing toxic chemical syndromes, or toxidromes, that lays the foundation for a consistent lexicon for use in CHEMM and for other uses that, if adopted widely, will improve response to chemical mass exposure incidents
5. a toxidromes outreach plan whose goal is to raise widespread awareness and encourage use of the toxidromes throughout the stakeholder community, and
6. an evaluation and validation plan for the CHEMM Intelligent Syndromes Tool (CHEMM-IST) that, once completed, will move CHEMM-IST from its current state as a prototype to a product ready for use in an operational response environment.

CHEMM is a Web-based resource that can be downloaded in advance to Windows and Mac computers to ensure availability during an event if the Internet is not accessible.

CHEMM content is also integrated into the NLM Wireless Information System for Emergency Responders (WISER), which is Web-based and downloadable to Windows computers. CHEMM content is also available in the WISER iOS and Android apps. The new CHEMM content will be incorporated into the next release of WISER.

For more information, see the "What's New on CHEMM?" section of CHEMM.

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New SNOMED CT Data Files Available

New SNOMED CT Data Files Available. NLM Tech Bull. 2014 Nov-Dec;(401):b1.

2014 November 13 [posted]

NLM is pleased to announce the following releases available for download:

1. A new subset from Convergent Medical Terminology (CMT) is now available for download from the UMLS Terminology Services (UTS) by UMLS licensees. This problem list subset includes concepts that KP uses within the ED Problem List. There are 2189 concepts in this file. SNOMED Concepts are based on the 1/31/2012 version of the International Release.

   For more information about CMT, please see the NLM CMT Frequently Asked Questions page.
2. The Spanish Edition of the SNOMED CT International Release is now available for download.
3. On behalf of the International Health Terminology Standards Development Organisation (IHTSDO), NLM is pleased to announce the release of the SNOMED CT International General/Family Practice subset (GP/FP Subset) and map from the GP/FP Subset to the International Classification of Primary Care (ICPC-2). This is the baseline work release resulting from the harmonization agreement between the IHTSDO and WONCA.

   The purpose of this subset is to provide the frequently used SNOMED CT concepts for use in general/family practice electronic health records within the following data fields: reason for encounter, and health issue. The purpose of the map from the SNOMED CT GP/FP subset to ICPC-2 is to allow for the granular concepts to be recorded by GPs/FPs at the point of care using SNOMED CT, with subsequent analysis and reporting using the internationally recognized ICPC-2 classification. However please note that use within clinical systems cannot be supported at this time. This Candidate Baseline is distributed for evaluation purposes only and should not be used in production clinical systems or in clinical settings.

   The subsets are aligned to the July 2014 SNOMED CT International Release. The SNOMED CT to ICPC-2 map is a Candidate Baseline, which IHTSDO expects to confirm as the Baseline release following the January 2015 SNOMED CT International Release.

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Cataloging News — 2015

Boehr D, Willis S. Cataloging News — 2015. NLM Tech Bull. 2014 Nov-Dec;(401):e7.

2014 December 05 [posted]

Other pertinent articles:

MEDLINE/PubMed Year-End Processing Activities

2015 MeSH Now Available

MeSH Browser Now Updated More Frequently

MEDLINE Data Changes - 2015

What's New for 2015 MeSH

Cataloging News - 2015

Newly Maintained MEDLINE for 2015 MeSH Now Available in PubMed

MeSH 2015 — Implications for LocatorPlus, NLM Catalog, and the NLM Classification

The National Library of Medicine (NLM) adopted the 2015 MeSH vocabulary for cataloging on November 24, 2014.

Accordingly, MeSH subject headings in LocatorPlus were changed to reflect the 2015 MeSH vocabulary and appear in that form as of November 24, 2014.

When year-end processing (YEP) activities are completed in mid-December, the NLM Catalog, MeSH database, and translation tables will be updated to reflect 2015 MeSH. Until then, note that there will be a hiatus in the addition of new and edited bibliographic records to the NLM Catalog.

The Index to the NLM Classification will not reflect 2015 MeSH changes until Spring 2015.

MeSH 2015 Changes in NLM Bibliographic Records and Cataloging Policy

In general, the Cataloging Section implemented the vocabulary changes in NLM bibliographic records for books, serials, and other materials, as they were applied for citations in MEDLINE. Below are a few highlights:

Death vs. Mortality
New terms were created: *Infant Death* and *Perinatal Death*. These terms complement the existing MeSH terms *Infant Mortality* and *Perinatal Mortality*. Death terms are used for biological, physiological, or psychological concepts while mortality terms are used for statistical concepts. There is some overlap with the perinatal terms. Catalogers should follow the annotations carefully.

"Social" Terms
The new term *Sociological Factors*, formerly an entry term (ET) to the specialty term *Sociology*, now serves as an overall heading for specific sociological characteristics and phenomena. Other new "social" terms include *Social Theory*, *Social Capital*, *Social Norms*, and *Social Skills*.

Missions Terms and Religious Personnel
The 2014 MeSH *Missions and Missionaries* was deleted. For 2015 MeSH, the concept of missions was separated from the persons involved in missionary work. Two new terms were created: *Religious Missions* and *Missionaries*. The automated MeSH changes that took place Nov. 22-23 replaced the term *Missions and Missionaries* with *Religious Missions*. Cataloging staff will conduct additional manual processing in December to add *Missionaries* to the set of records that also have PT *Biography*, *Autobiography*, or *Personal Narratives*. Note that the existing term *Medical Missions, Official* is still available.

Religious Personnel was created as an overall term under which *Clergy* and the new terms *Monks* and *Nuns* are treed. Several ETs were created for the existing term, *Clergy*: Chaplains, Clerics, Deacons, Imams, Ministers, Pastors, Priests, Rabbis.

Manufacturing Industry
The new term *Manufacturing Industry*, formerly an entry term (ET) to *Industry*, now serves as an overall heading for specific manufacturing industries.

Publication Types (PTs) and Related Terms:
No new Publication Types were created for 2015.

In Vitro [PT] (had the annotation: "CATALOG: do not use") has been deleted and replaced with the MeSH term *In Vitro Techniques* (Category E) which serves as an overall term for specific in vitro techniques.

Catalogers may use *In Vitro Techniques* for studies of isolated (not cultured) organs and tissue. Do not use *In Vitro Techniques* for studies of microorganisms or for chemical studies of non-living materials.

Dataset [PT] was created in 2014. The corresponding MeSH term was created in 2015: *Datasets as Topic*. The PT will probably rarely be used for cataloging except perhaps with relevant electronic resources, e.g., *Scientific Data*. Do not use the PT or the MeSH term for general research materials even if "dataset" is mentioned. Follow MeSH scope notes carefully.

Change in cataloging policy not related to 2015 MeSH: Cataloging staff will no longer use the PTs *Charts* or *Newspaper Articles* for current materials.

MeSH Descriptors Not Used by Catalogers:

New
International Planned Parenthood Federation is annotated: "CATALOG: use NAF entry." Catalogers should use the National Authority File (NAF) heading coded in MARC as 610 22 and coordinate with International Agencies, coded in MARC as 650 X2.

Organisation for Economic Co-Operation and Development is annotated: "CATALOG: use NAF entry." Catalogers should use the National Authority File (NAF) heading coded in MARC as 610 22 and coordinate with International Agencies, coded in MARC as 650 X2.

Metabolic Side Effects of Drugs and Substances is annotated: "used for searching: indexers and catalogers apply specifics; catalogers should not use this term." This is an overall term for D27 tree to cover drug actions that are related to side effects. Catalogers should only use the specific MeSH terms treed under it.

Existing Modified
Absorption is now annotated: "beginning in 2015: used for searching; indexers and catalogers apply specifics." The physical process of absorption was separated from the physiological process of absorption by the addition of two new terms: *Absorption, Physicochemical* and *Absorption, Physiological*.

The term *Absorption* was retained for use in searching and should no longer be used by catalogers. This is one of the many 2015 MeSH addition/changes to cover the LADMER System: **L**iberation of an ingredient from the dosage form, **A**bsorption into the systemic circulation, **D**istribution within the body fluids and tissues, **M**etabolism (activating or inactivating, biotransformation) in the body, **E**limination from the body (or reabsorption), **R**esponse (therapeutic or other effect elicited by dose).

For additional information about 2015 MeSH, see the articles *What's New for 2015 MeSH* and *MEDLINE Data Changes — 2015*.

Additional Database Changes

A summary of the DTD and XML changes for the NLMCatalogRecordSet DTD and CatfilePlus and Serfile XML for 2015 is available in the August 25, 2014 announcement: 2015 DTD and XML Changes; DIRLINE and Archival International Pharmaceutical Abstracts Subset Changes; Forthcoming 2015 Baseline and Update Files; Schedule Changes; Continuing to Lease NLM Data in 2015, Section 1. B.

By Diane Boehr and Sharon Willis
Cataloging and Metadata Management Section (CAMMS)

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What's New for 2015 MeSH

Schulman J. What's New for 2015 MeSH. NLM Tech Bull. 2014 Nov-Dec;(401):e6.

2014 December 05 [posted]

MeSH is the National Library of Medicine's controlled vocabulary thesaurus which is updated annually. NLM uses the MeSH thesaurus to index articles from thousands of biomedical journals for the MEDLINE/PubMed database and for the cataloging of books, documents, and audiovisuals acquired by the Library.

Overview of Vocabulary Development and Changes for 2015 MeSH

- 310 Descriptors added
- 25 Descriptor terms replaced with more up-to-date terminology
- 4 Descriptors deletes

Totals by Type of Terminology

- 27,455 Descriptors
- 83 Qualifiers
- 224,925 Supplementary Concept Records

Other pertinent articles:

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Newly Maintained MEDLINE for 2015 MeSH Now Available in PubMed

Helpful Links

Please consult the 2015 online Introduction to MeSH for more details. Lists of new and changed vocabulary are available at these links:

MeSH Vocabulary Changes
New Descriptors - 2015
Changed Descriptors - 2015
Deleted Descriptors - 2015
New Descriptors by Tree Subcategory - 2015

2015 MeSH Vocabulary Project Highlights

Neuroanatomy content in the Central Nervous System tree [A08.186]was updated to reflect the current progress in neurobiomedical science and to accommodate search and retrieval of literature in brain connectome and related disciplines. This update was validated by projects such as the White House BRAIN (Brain Research through Advancing Innovative Neurotechnologies) Initiative and the hippocampal spatial representation research by the Laureates for the Nobel Prize for Physiology or Medicine 2014. In summary, 451 new terms in 108 existing Descriptors; and 281 new terms in 54 newly created Descriptors were added.

Update: Unique Ingredient Identifiers (UNIIs) Added to MeSH Descriptors

The UNII Project, started in 2013, is a collaborative effort between NLM and Food and Drug Adminstration (FDA) informatics scientists to include FDA Substance Registration System (SRS) - Unique Ingredient Identifiers (UNIIs) in MeSH. NLM continues to add FDA-SRS UNII unique identifiers to MeSH pharmaceutical compounds and now has over 11,000 concepts defined by UNII. In 2014, coverage was expanded to include drug absorption pathways and other processes that determine the fate of drugs. The Pharmacologic Actions tree was also expanded to include 48 new headings and a new major category "Metabolic Side Effects of Drugs and Substances" was created to accommodate a broad variety of side effects that drugs have on the cytochrome P-450 system. For additional information see, *A New System of Registry Number Identifiers for Chemicals in the MeSH Database*.

MeSH on Demand

MeSH on Demand, launched in May 2014, was developed to allow an easy way to identify relevant MeSH terms for text up to 10,000 characters (such as manuscript abstract, summary statement or description of a project)

automatically. In the first full month of operation, 140,940 requests were made to MeSH on Demand. For additional information on MeSH on Demand see, *MeSH on Demand Tool: An Easy Way to Identify Relevant MeSH Terms* and *MeSH on Demand Update: How to Find Citations Related to Your Text*.

By Jacque-Lynne Schulman
MeSH Section

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MEDLINE Data Changes — 2015

Tybaert S. MEDLINE Data Changes — 2015. NLM Tech Bull. 2014 Nov-Dec;(401):e5.

2014 December 01 [posted]
2014 December 16 [Editor's note added]

Other pertinent articles:

MEDLINE/PubMed Year-End Processing Activities

2015 MeSH Now Available

MeSH Browser Now Updated More Frequently

MEDLINE Data Changes - 2015

What's New for 2015 MeSH

Cataloging News - 2015

Newly Maintained MEDLINE for 2015 MeSH Now Available in PubMed

[Editor's note: These changes were implemented in PubMed on December 15, 2014.]

This article collects the notable data changes made to MEDLINE during annual National Library of Medicine (NLM) maintenance known as Year-End Processing (YEP) for 2015.

MeSH Vocabulary Updated for 2015

The MeSH Browser currently points to the 2015 MeSH vocabulary with a link to the 2014 MeSH Vocabulary. Searchers should consult the Browser to find MeSH headings of interest and their relationships to other headings. The Browser contains MeSH Heading records that may include scope notes, annotations, entry terms, history notes, allowable qualifiers (subheadings), previous headings and other information. It also includes Subheading records and Supplementary Concept Records (SCRs) for substances and diseases that are not MeSH Headings.

The MeSH Section homepage provides a link under "All About MeSH" to the Introduction of 2015 MeSH and under "Obtaining MeSH" to download electronic versions.

The MeSH Tree Structures are also available online in both PDF and HTML formats with all indented terms showing.

For highlights about 2015 MeSH, see the article, *What's New for 2015 MeSH*.

The PubMed MeSH database and translation tables will be updated to reflect 2015 MeSH in mid-December when YEP activities are complete and the newly maintained MEDLINE data are available in PubMed.

Updated MeSH in MEDLINE Citations

MEDLINE records with updated MeSH will be in PubMed in mid-December 2014. See "Modifying a Saved Search Strategy" for details on revising My NCBI saved searches.

New MeSH Headings

310 new MeSH Headings were added to MeSH in 2015.

Typically, NLM does not retrospectively re-index MEDLINE citations with new MeSH Heading concepts. Therefore, searching PubMed for a new MeSH term tagged with [mh] or [majr] effectively limits retrieval to citations indexed after the term was introduced. PubMed Automatic Term Mapping (ATM) expands an untagged subject search to include both MeSH Terms and All Fields index terms and may retrieve relevant citations indexed before the introduction of a new MeSH term. Searchers may consult the MeSH Browser or the MeSH database to see the Previous Indexing terms most likely used for a particular concept before the new MeSH Heading was introduced.

Changes to MeSH Headings

This year 29 MeSH Headings were either changed or deleted and replaced with more up-to-date terminology. During YEP, NLM updates MeSH headings on MEDLINE citations.

Brand New Concepts

Examples of new MeSH headings of special interest to searchers are highlighted below by Category. You can browse all of the new 2015 concepts on the MeSH New Descriptors Web page.

Category A - Anatomy

Commissural Interneurons
Olfactory Cortex
Renshaw Cells

Category B – Organisms

Influenza A Virus, H10N8 Subtype
Middle East Respiratory Syndrome Coronavirus

Category C – Diseases

Adenocarcinoma in Situ
Atypical Hemolytic Uremic Syndrome
Atypical Squamous Cells of the Cervix
Cardiotoxicity
Infant Death
Morphological and Microscopic Findings
Perinatal Death
Pregnancy, Angular
Pregnancy, Cornual
Pregnancy, Interstitial
Pregnancy, Ovarian
Squamous Intraepithelial Lesions of the Cervix
Transfusion Reaction
Vascular Remodeling

Category D – Chemicals and Drugs

Cytochrome P-450 CYP1B1
Cytochrome P-450 CYP2A6
Cytochrome P-450 CYP2B6
Cytochrome P-450 CYP2C8
Cytochrome P-450 CYP2C9
Cytochrome P-450 CYP2C19
Cytochrome P-450 Enzyme Inducers
Cytochrome P-450 CYP1A2 Inducers
Cytochrome P-450 CYP2B6 Inducers
Cytochrome P-450 CYP2C8 Inducers
Cytochrome P-450 CYP2C9 Inducers
Cytochrome P-450 CYP2C19 Inducers
Cytochrome P-450 CYP2D6 Inducers
Cytochrome P-450 CYP2E1 Inducers
Cytochrome P-450 CYP3A Inducers
Cytochrome P-450 Enzyme Inhibitors
Cytochrome P-450 CYP1A2 Inhibitors
Cytochrome P-450 CYP2B6 Inhibitors
Cytochrome P-450 CYP2C8 Inhibitors
Cytochrome P-450 CYP2C19 Inhibitors
Cytochrome P-450 CYP2C9 Inhibitors
Cytochrome P-450 CYP2D6 Inhibitors
Cytochrome P-450 CYP2E1 Inhibitors
Cytochrome P-450 CYP3A Inhibitors
Metabolic Side Effects of Drugs and Substances
Protein Aggregates
Protein Aggregation, Pathological

Category E - Analytical, Diagnostic and Therapeutic Techniques and Equipment

Controlled Before-After Studies
Historically Controlled Study
Interrupted Time Series Analysis
Protective Factors

Category F - Psychiatry and Psychology

Spatial Learning
Spatial Navigation
Spatial Processing
Psychology, Developmental
Social Skills

Category G - Phenomena and Processes

Absorption, Physiochemical
Absorption, Physiological
Absorption, Radiation
Activation, Metabolic
Diet, Paleolithic
Diet, Western
Drug Liberation
Forests
Gastrointestinal Absorption
Gastric Absorption
Grassland

Hepatobiliary Elimination
Intestinal Elimination
Intramuscular Absorption
Lacrimal Elimination
Lacteal Elimination
Nasal Absorption
Ocular Absorption
Oral Mucosal Absorption
Peritoneal Absorption
Permafrost
Pulmonary Elimination
Rainforest
Rectal Absorption
Renal Elimination
Renal Reabsorption
Respiratory Tract Absorption
Salivary Elimination
Subcutaneous Absorption
Taiga
Toxicokinetics
Tundra
Vaginal Absorption

Category J – Technology, Industry, Agriculture
Electronic Cigarettes

Category K - Humanities
Religious Missions

Category L - Information Science
Datasets as Topic

Category M - Named Groups
Missionaries

Changes of particular interest include:

- The Publication Type In Vitro was deleted and replaced by the MeSH Heading In Vitro Techniques.
- In 2015 MeSH the MeSH Tree structures were updated for Neuroanatomy Terms. 54 new terms were added with 281 Entry Terms (ET). 451 new Entry Terms were added to existing neuroanatomy terms.
    - As an example: in 2014 Olfactory Cortex was an ET to Olfactory Pathways but in 2015 Olfactory Cortex was created as a separate MeSH term.
- The term Morphological and Microscopic Findings was created for the grouping of specific terms for morphologic findings, particularly the results of PAP smears reported according to the Bethesda System. It is not used for indexing.
- Transfusion Reaction was created as a separate MeSH term in 2015. In 2014 it had been an ET to Blood Group Incompatibility. After Transfusion Reaction was removed as an ET, Blood Group Incompatibility was re-treed.
- Two new infant death terms were added in 2015: Infant Death and Perinatal Death. It is important to note the difference between death and mortality terms. Mortality terms are used for statistical concepts and death terms are used for biological, physiological and psychological concepts. Please read the annotations for the overlap in the definition between these two, and between Fetal Death and Perinatal Death.
- A number of new Absorption terms were added for concepts related to the pharmacokinetic processes of exogenous chemicals.
- For 2015 MeSH the concept of missions was separated from the persons involved in missionary work. Two new terms were created: Religious Missions and Missionaries.

Do not confuse:

- Protein Aggregates with Multiprotein Complexes.
- Historically Controlled Study with Historical Article.

In addition to changes and deletions of MeSH terms on MEDLINE citations, YEP includes other adjustments to reflect 2015 MeSH vocabulary and to enhance search retrieval. These follow-on adjustments are largely the adding of more MeSH Headings or Supplementary Concept Record Names to citations to help searchers refine retrieval. In some cases, the changes clarify areas where a single concept existed before, but it is now represented by two or more specific concepts.

These types of changes, along with others documented on the Annual MEDLINE/PubMed Year-End Processing (YEP): Background Information Web page, suggest the importance of routinely using the PubMed Details feature when searching to see how terms are mapped with the new year's vocabulary and then checking the MeSH Browser or the MeSH database for clarification. Additional information is also available in the article, Skill Kit: The Effects of Year End Processing (YEP) on Saved Searches or RSS Feeds.

Entry Combination Revisions

This year during YEP, NLM will again retrospectively replace certain MeSH heading/subheading combinations, known as Entry Combinations, with the new precoordinated MeSH heading. If you get no retrieval for a MeSH Heading/subheading combination check the heading in the 2015 MeSH Browser to see if the Entry Combination information indicates a different term.

There are 38 new Entry Combinations for 2015.

Previous MeSH Heading/Subheading (Entry Combination)	Replaced-by Heading for 2015
alpha-Glucosidases /antagonists & inhibitors	Glycoside Hydrolase Inhibitors
Aromatic-L-Amino-Acid Decarboxylases /antagonists & inhibitors	Aromatic Amino Acid Decarboxylase Inhibitors
beta-Lactamases /antagonists & inhibitors	beta-Lactamase Inhibitors
Calcineurin /antagonists & inhibitors	Calcineurin Inhibitors
Catechol O-Methyltransferase /antagonists & inhibitors	Catechol O-Methyltransferase Inhibitors
Cephalosporinase /antagonists & inhibitors	beta-Lactamase Inhibitors
Chloride Channels /agonists	Chloride Channel Agonists
Cornea /injuries	Corneal Injuries
Cytochrome P-450 CYP1A2 /antagonists & inhibitors	Cytochrome P-450 CYP1A2 Inhibitors
Cytochrome P-450 CYP2B6 /antagonists & inhibitors	Cytochrome P-450 CYP2B6 Inhibitors
Cytochrome P-450 CYP2C19 /antagonists & inhibitors	Cytochrome P-450 CYP2C19 Inhibitors
Cytochrome P-450 CYP2C8 /antagonists & inhibitors	Cytochrome P-450 CYP2C8 Inhibitors
Cytochrome P-450 CYP2C9 /antagonists & inhibitors	Cytochrome P-450 CYP2C9 Inhibitors
Cytochrome P-450 CYP2D6 /antagonists & inhibitors	Cytochrome P-450 CYP2D6 Inhibitors
Cytochrome P-450 CYP2E1 /antagonists & inhibitors	Cytochrome P-450 CYP2E1 Inhibitors
Cytochrome P-450 CYP3A /antagonists & inhibitors	Cytochrome P-450 CYP3A Inhibitors
Cytochrome P-450 Enzyme System /antagonists & inhibitors	Cytochrome P-450 Enzyme Inhibitors
DNA-Directed DNA Polymerase /antagonists & inhibitors	Nucleic Acid Synthesis Inhibitors
Dopa Decarboxylase /antagonists & inhibitors	Aromatic Amino Acid Decarboxylase Inhibitors
Estradiol /antagonists & inhibitors	Estrogen Antagonists
Estrogens /antagonists & inhibitors	Estrogen Antagonists
Factor Xa /antagonists & inhibitors	Factor Xa Inhibitors
Factor Xa /deficiency	Factor X Deficiency
Hernia, Diaphragmatic /congenital	Hernias, Diaphragmatic, Congenital
Ornithine Decarboxylase /antagonists & inhibitors	Ornithine Decarboxylase Inhibitors
Penicillinase /antagonists & inhibitors	beta-Lactamase Inhibitors
Receptor, Bradykinin B1 /antagonists & inhibitors	Bradykinin B1 Receptor Antagonists
Receptor, Bradykinin B2 /antagonists & inhibitors	Bradykinin B2 Receptor Antagonists
Receptor, Endothelin A /antagonists & inhibitors	Endothelin A Receptor Antagonists
Receptor, Endothelin B /antagonists & inhibitors	Endothelin B Receptor Antagonists
Receptors, Bradykinin /antagonists & inhibitors	Bradykinin Receptor Antagonists
Receptors, CCR5 /antagonists & inhibitors	CCR5 Receptor Antagonists
Receptors, Dopamine D2 /antagonists & inhibitors	Dopamine D2 Receptor Antagonists
Receptors, Endothelin /antagonists & inhibitors	Endothelin Receptor Antagonists
Receptors, Islet Amyloid Polypeptide /agonists	Amylin Receptor Agonists
Receptors, Opioid /antagonists & inhibitors	Narcotic Antagonists
Receptors, Vasopressin /antagonists & inhibitors	Antidiuretic Hormone Receptor Antagonists
Recurrence /prevention & control	Secondary Prevention

Interview [PT]

In a new change in policy, MEDLINE citations that are cited with the Publication Type [PT] Interview will have both the Interviewee and Interviewer cited as authors. The first author will be the Interviewee and the second author will be the Interviewer. In the past we only cited the Interviewee as the author.

Author Affiliation

Effective with the implementation of the new PubMed system in mid-December and going forward, NLM will allow for multiple Author Affiliations for all Authors, Corporate Authors and Investigators, if the data are supplied by the publisher in their XML submissions for MEDLINE indexed journals.

MeSH Unique Identifier

Also effective with the implementation of the new PubMed system in mid-December and going forward NLM will be including the MeSH Unique Identifier for MeSH Headings, Subheadings, Name of Substance, Supplementary MeSH Name and Publication Types. These Unique Identifiers are displayed in the PubMed XML view only.

Structured Abstracts

In November 2014, NLM added 345 new labels to the list of structured abstract labels. This brings the total of vetted and mapped labels to 2,799. The new 2014 file can be found at: http://structuredabstracts.nlm.nih.gov/Downloads/Structured-Abstracts-Labels-111314.txt.

Additional information is available in the article, Structured Abstracts in MEDLINE: Newly Identified and Mapped Labels Available .

New Indexing Policy

Effective for 2015 indexing forward, the more general MeSH heading Mice, Rats, or Cricetinae will no longer be added to a MEDLINE citation when one of their children terms is selected by the indexer. This change now aligns with the basic indexing policy of indexing to the most specific heading (and not also adding the parent term) and using the Tree structures for retrieval. The MeSH heading Animals will still be added, as usual, to support the Animals search limit.

LR (Modification Date) on In Process Citations

Starting around the last week in November 2014, NLM will tag In Process citations with an LR (Modification Date) when those citations have been edited to add Grant information or PMCIDs that have been identified by NCBI automatic machine detection. The purpose of this change for these particular updates to In Process citations is to facilitate the tracking of compliance for NIH Public Access. NLM already assigns an LR for these updates to completed citations (MEDLINE and PubMed-not-MEDLINE subsets) and to the "as supplied by publisher" citations (publisher subset).

PubMed Notes

The Dataset [PT] value will be used for 2015 indexing.

PubMed will display the following new display labels for linking between a Dataset citation and the original research citation.

Dataset described in: - this would appear on the citation for the original paper
Dataset use reported in: - this would appear on the citation for the dataset description

To retrieve the dataset-related citations use the following new search terms:

hasdatasetdescribedin
hasdatasetusereportedin

By Sara Tybaert
MEDLARS Management Section

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LOINC — SNOMED Cooperation Project Technology Preview: Release Files Available for Comment by December 15, 2014

Roy S. LOINC — SNOMED Cooperation Project Technology Preview: Release Files Available for Comment by December 15, 2014. NLM Tech Bull. 2014 Nov-Dec;(401):e4.

2014 November 28 [posted]

On behalf of the International Health Terminology Standards Development Organisation (IHTSDO), NLM is pleased to announce the release of the LOINC – SNOMED Cooperation Project Technology Preview. This release is the draft resulting from a cooperative agreement between the Regenstrief Institute, the owners of LOINC, and the IHTSDO, the owners of SNOMED CT. This Technology Preview does not represent a set of data ready for clinical use within a system and has been made available at this time for review and evaluation purposes only. Thus, this release should not be used in production clinical systems or in clinical settings.

This Technology Preview includes:

- a map between LOINC terms and post-coordinated SNOMED CT expressions,
- a map between LOINC parts to SNOMED CT concepts, and
- addition of new content in either terminology.

Feedback is requested on the Technology Preview release to inform future development and determine fitness for purpose. Please provide feedback by December 15, 2014 through one of the following two options:

- an online feedback form, or
- via email to LOINCSNOMEDProject@ihtsdo.org with a subject line of "LOINCSNOMED Technology Preview."

By Susan Roy
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Structured Abstracts in MEDLINE: Newly Identified and Mapped Labels Available

Truong F, Knecht LS, Ripple AM. Structured Abstracts in MEDLINE: Newly Identified and Mapped Labels Available. NLM Tech Bull. 2014 Nov-Dec;(401):e3.

2014 November 21 [posted]

The National Library of Medicine (NLM) has updated its list of structured abstract labels. This updated list, along with the NLM-assigned broader category mappings, can be downloaded for free from the Structured Abstracts resource page which also provides NLM guidelines and other background information to assist licensees or researchers.

The Updated Label List and NLM Category Mappings file contains 2,799 labels: 2,454 labels (from the 2013 Label List) and 345 new labels. Each label has a map to one of five corresponding broader NLM Categories (i.e., BACKGROUND, OBJECTIVE, METHODS, RESULTS, or CONCLUSIONS) and an indication of whether the label is classed as an "Ending Label" concept. The 345 new label entries have a timestamp of "|20141113". This file does not contain labels that map to UNASSIGNED as an NLM Category (see explanation).

A grand total of 4,514 citations in PubMed (whether in process, MEDLINE, or PubMed-not-MEDLINE status) were revised to reflect the new labels effective on or about November 13, 2014.

Read more about Structured Abstracts in MEDLINE/PubMed.

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UMLS 2014AB Release Available

Wilder V. UMLS 2014AB Release Available. NLM Tech Bull. 2014 Nov-Dec;(401):e2.

2014 November 10 [posted]

The 2014AB release of the Unified Medical Language System (UMLS) Knowledge Sources is available for download as of November 10, 2014.

In the new UMLS Release there are:

- More than 3 million concepts and 11.9 million unique concept names from over 150 source vocabularies
- The full Metathesaurus requires 23.7 GB of disk space; the active release requires 22.8 GB of disk space.
- Three new sources
    - Library of Congress Subject Headings, Northwestern University Subset (LCH_NW)
    - National Drug File – FDA Structured Product Labeling (NDFRT_FDASPL)
    - National Drug File – Federal Medication Terminologies Subject Matter Experts (NDFRT_FMTSME)
- Two new mappings
    - Library of Congress Subject Headings, Northwestern University Subset, to MeSH: MAPSETCUI C3826807 in MRMAP and MRSMAP
    - SNOMED CT® to ICD10-CM Refset: MAPSETCUI C3853366 in MRMAP and MRSMAP
- One new content view
    - US Extension Content View – indicates that a specific atom belongs to the US Extension to SNOMED CT and carries the NLM Module ID of "731000124108"
- 23 updated English sources and 10 updated translation sources including MeSH, MedDRA, RxNorm, and SNOMED CT (English and Spanish)

Logical Observation Identifier Names and Codes (LOINC)

- LOINC Answer concepts ("LA"codes) now are included in the Metathesaurus. They are connected in MRREL to their LOINC Official Fully Specified Name (LN) atoms via the "has_answer" relationship label. The sequence in which the answer appears in the answer list is an attribute in MRSAT (ATN = "SEQ_NO") of the relationship (RUI) between the two concepts.

National Drug File - FDA SPL (NDFRT_FDASPL)

- NDFRT_FDASPA only asserts relationship and does not contribute any terms to the Metathesaurus.

National Drug File - FMTSME (NDFRT_FMTSME)

- NDFRT_FMTSME only asserts relationship and does not contribute any terms to the Metathesaurus.

NCI Thesaurus

- Each of the 22 NCI subsources now has its own RSAB in the Metathesaurus, with SRL=0. As a result there are 22 additional Root Source Abbreviations (RSABs) in the Metathesaurus. All NCI subsources belong to the newly created source family "NCI" and each new RSAB begins with the prefix "NCI_".
    - Users of this content are expected to abide by the terms of the UMLS Metathesaurus License agreement as outlined in Appendix 1.
    - The 22 new RSABs in the NCI source family are:
        1. NCI_BioC
        2. NCI_BRIDG
        3. NCI_CDC
        4. NCI_CDISC

5. NCI_CRCH
6. NCI_CTCAE
7. NCI_CTEP-SDC
8. NCI_DCP
9. NCI_DICOM
10. NCI_DTP
11. NCI_FDA
12. NCI_ICH
13. NCI_JAX
14. NCI_KEGG
15. NCI_NCI-GLOSS
16. NCI_NCI-HL7
17. NCI_NCPDP
18. NCI_NICHD
19. NCI_PID
20. NCI_RENI
21. NCI_UCUM
22. NCI_ZFin

Release Information
For more information about the release, see the What's New and Updated Sources sections of the Release Documentation. Additional release statistics are published on the UMLS Web site.

To access the UMLS Release files, you must have an active UMLS Metathesaurus License and a valid UMLS Terminology Services (UTS) account. You will be prompted for your UTS username and password when downloading the files.

Additional information regarding the UMLS is available on the UMLS homepage. New users are encouraged to take the UMLS Basics Tutorial and to explore the new UMLS Quick Start Guide, training materials and other information on the New Users' homepage.

Source Release Documentation
2014AB Source Release Documentation Web pages will be published following the release.

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Search Hint: Searching for Ebola in MEDLINE/PubMed

Search Hint: Searching for Ebola in MEDLINE/PubMed. NLM Tech Bull. 2014 Nov-Dec;(401):e1.

2014 November 05 [posted]

The simple PubMed search of:

ebola*

retrieves all citations indexed with any of the Ebola MeSH headings as well as citations that have not yet been indexed but have that root string as a text word. Please be aware that truncation turns off Automatic Term Mapping and explosions in PubMed; however, with this search none of the Ebola MeSH headings have narrower terms at this time in their MeSH hierarchy, so nothing is lost by truncation.

The MeSH Vocabulary places the Ebola virus (MeSH: Ebolavirus) in the Organisms tree and the infection (MeSH: Hemorrhagic Fever, Ebola) in the Diseases tree. Indexing policy dictates that indexers coordinate the infection and virus when appropriate. In addition, searchers may be interested in the MeSH term Ebola Vaccines in the Chemicals and Drugs tree to find the literature on that specific topic.

Please also visit the NLM Information Resources for the 2014 Ebola Outbreak page.

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