



NLM Technical Bulletin

National Library of Medicine | National Institutes of Health

2006 NOVEMBER–DECEMBER No. 353

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NLM® Classification Now Available in PDF Format

November 02, 2006 [posted]

The *National Library of Medicine Classification 2006* is now available in PDF (Portable Document Format) at http://www.nlm.nih.gov/class/terms_cond.html. PDF documents require the use of the Adobe® Acrobat® Reader, which can be downloaded from Adobe's Web site at no charge.

The PDF version can be downloaded in three (3) separate sections:

- Section 1: Introductory Material (includes instructional material, class number changes, and the Table G geographic location table) [179KB]
- Section 2: Schedules [446KB]
- Section 3: Index [2MB]

The *National Library of Medicine Classification 2006* PDF was created from 2006 classification data. It will be replaced in approximately six (6) months by the *National Library of Medicine Classification 2007* PDF which will be published at the same time as the online *NLM Classification 2007*. Future PDF versions of the *NLM Classification* will be published on an annual basis with current classification data.

The HTML version is still available for download at http://www.nlm.nih.gov/class/terms_cond.html. The Terms and Conditions of use must be agreed to in order to download classification data available in PDF and HTML formats.

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November 07, 2006 [posted]

New NCBI Database of Genotype and Phenotype (dbGaP)

A new value, QIS, has been established for the Journal/Citation subsets which display in the Subset [SB] field of the MEDLINE display format. The new value will be used on citations from non-*Index Medicus* journals in the field of the history of medicine. The value was established by NLM[®] because these journals require special processing. QIS is not a subset of Q; however, some journals previously designated as Q are now QIS. The Q subset value is used for citations in the field of the history of medicine and includes records from the former HISTLINE[®] database. To facilitate searching for history of medicine information, the history [sb] search strategy in PubMed was edited so that it retrieves the QIS citations along with the Q citations.

MEDLINE[®]/PubMed[®] Resources Guide Available

November 09, 2006 [posted]

A guide linking users to a wide range of MEDLINE/PubMed resources on the NLM Web site is now available. This helpful guide includes sources for news, overviews, data structure and variables, statistics, help and training resources, and more.

New Books Added to NCBI Bookshelf

December 01, 2006 [posted]

December 26, 2006 [editor's note added]

Three new books have been added to the Bookshelf:

An Introduction to Epilepsy.

Bromfield, Edward B.; Cavazos, José E.; Sirven, Joseph I., editors

Bethesda (MD): American Epilepsy Society; c2006

Available from: <http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=epilepsy.TOC&depth=1>

Health, United States, 2005

With Chartbook on Trends in the Health of Americans.

Available from: <http://www.ncbi.nlm.nih.gov/books/bv.fcgi?call=bv.View..ShowTOC&rid=healthus05.TOC>

Mechanosensitivity in Cells and Tissues.

Kamkin, Andre; Kiseleva, Irina, editors

Moscow: Academia Publishing House Ltd.; c2005

Available from: <http://www.ncbi.nlm.nih.gov/books/bv.fcgi?rid=mechano.TOC>

[Editor's note: Two additional books were added to the Bookshelf.]

Antiretroviral Resistance in Clinical Practice.

Geretti, Anna Maria, editor

London: Mediscript Ltd.; c2006

Available from: <http://www.ncbi.nlm.nih.gov/books/bv.fcgi?call=bv.View..ShowTOC&rid=antiretro.TOC>

Creating a Web Link to the Entrez Databases was added to the *NCBI Help Manual*.

The books in Bookshelf may be searched directly from the Bookshelf site, via links from the Links pull-down menu from relevant PubMed® citations, or through the Entrez cross-database search page.

"Don't put anything smaller than your elbow in your ear: *the genetics of ear wax*" Added to Coffee Break

December 01, 2006 [posted]

NCBI's Coffee Break is a collection of short stories and interactive tutorials about recent biomedical discoveries. These snapshots of science are short enough to be enjoyed over a cup of coffee but also give a detailed report on a molecular topic.

The latest Coffee Break, "Don't put anything smaller than your elbow in your ear: *the genetics of ear wax*," describes an exciting genetic discovery made recently in the field of ear wax. To see a complete list of all available Coffee Break reports click on the contents link.

You can read more about Coffee Break in the *NLM Technical Bulletin* article, *Dean L. Take a Coffee Break. NLM Tech Bull. 2003 Nov-Dec;(335):e5.*

HSDB Ionizing Radiation Series Added

December 01, 2006 [posted]

[Editor's Note: This Technical Note 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.]

A record for ionizing radiation and a series of specific radionuclide records have been added to NLM's Hazardous Substances Data Bank (HSDB).

Ionizing radiation may result from unstable atomic nuclei or from high energy electron transitions. It includes electromagnetic radiation (e.g., gamma rays and X-rays) as well as particles (e.g., alpha particles, beta particles, high-speed neutrons, high-speed electrons, high-speed protons, etc.)

HSDB is part of the National Library of Medicine's TOXNET system. It focuses on the toxicology of about 5,000 potentially hazardous chemicals, and is enhanced with information on human exposure, industrial hygiene, emergency handling procedures, environmental fate, regulatory requirements, and related areas.

Records are added to HSDB on a scheduled basis. They are peer reviewed by the HSDB Scientific Review Panel of outside experts.

Further information about HSDB can be found in the National Library of Medicine's HSDB Fact Sheet.

AHRQ Evidence Reports Added to NCBI Bookshelf

December 01, 2006 [posted]

December 26, 2006 [editor's note added]

The National Center for Biotechnology Information (NCBI) has recently added one new AHRQ (Agency for Healthcare Research and Quality) Evidence Reports to the HSTAT collection on the Bookshelf. HSTAT, Health Services/ Technology Assessment Text, is a free, Web-based resource of full-text documents that provides health information and supports health care decision making.

125. Manifestations and Management of Chronic Insomnia in Adults

[Editor's note: One additional Report was added to the HSTAT collection.]

126. Effects of Soy on Health Outcomes

Papers of Harold Varmus Added to the NLM's Profiles in Science[®]

December 08, 2006 [posted]

The National Library of Medicine Profiles in Science Web site has been enriched by the addition of the papers of Harold Harold Varmus, M.D., pioneering cancer researcher, former National Institutes of Health Director (NIH), and Nobel Laureate. The Library has collaborated with the University of California, San Francisco Archives and Special Collections to digitize his papers and make them widely available. This brings to twenty the number of notable scientists who have personal and professional records included in Profiles in Science.

In 1989, Varmus and his long time collaborator, J. Michael Bishop, shared the Nobel Prize in Physiology or Medicine "for their discovery of the cellular origin of retroviral oncogenes."

In 1993, President Clinton nominated Varmus as Director of the (NIH) where he was a familiar figure on his bicycle as he regularly pedaled between home and office. The first Nobel Laureate to head NIH, Varmus strengthened the institution's commitment to basic research while negotiating political controversies over AIDS and stem cell research.

In November 1999, he became president and director of the Memorial Sloan-Kettering Cancer Center in New York.

The online exhibition features correspondence, laboratory and lecture notes, research proposals, published articles, and photographs from the Harold Varmus papers at the University of California, San Francisco. Visitors to the site can view, for example, Varmus' schematic depictions of gene control in birds, an extensive exchange of letters regarding the naming of HIV, and a photograph of Varmus receiving the Montgomery County, Maryland bicyclist of the year award.

Improved Location Data in TOXMAP

December 08, 2006 [posted]

[Editor's Note: This Technical Note 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 EPA recently released updated and more accurate TRI location data from its Facility Registry System (FRS). TOXMAP has incorporated these changes, which correct many TRI location inaccuracies in the FRS. Such corrections will continue to be incorporated into TOXMAP as they become available.

See the TOXMAP FAQ about TRI location accuracy for more information. TOXMAP is a Geographic Information System (GIS) from the Division of Specialized Information Services of the U.S. National Library of Medicine (NLM) that uses maps of the United States to help users visually explore data from the U.S. Environmental Protection Agency (EPA)'s Toxics Release Inventory (TRI) and Superfund Program.

Newly Maintained MEDLINE® Now Available in PubMed®

December 12, 2006 [posted]

As of December 11, PubMed's MEDLINE citations, translation tables, and the MeSH® database have been updated to reflect 2007 MeSH. Now that end-of-year activities are complete, MEDLINE via PubMed may be searched using 2007 MeSH vocabulary. See *MEDLINE® Data Changes - 2007. NLM Tech Bull. 2006 Nov-Dec;(353):e3.* and *PubMed® Notes for 2007. NLM Tech Bull. 2006 Nov-Dec;(353):e5.* for details on data changes. These articles include links to other relevant MEDLINE and MeSH-related articles. On December 12, NLM resumed daily (Tuesday-Saturday) MEDLINE updates to PubMed (including the backlog of citations indexed since November 14 with 2007 MeSH but not yet added to PubMed).

New Version of WISER (2.3) Available

December 18, 2006 [posted]

[Editor's Note: This Technical Note 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.]

A new version of WISER (2.3) is now available for download from <http://wiser.nlm.nih.gov> or via WebWISER.

The key updates in this release include:

- Data updated to reflect the latest content of NLM's® Hazardous Substance Data Bank (HSDB)
- New data item: Ionization Potential (see Physical Properties data menu)
- New data item: EPA's Acute Exposure Guideline Levels (AEGL) (see Medical data menu)
- New substances requested by users: Acrylic Acid and Ethyl Methyl Ether
- Improved presentation of ERG 2004 guide pages (not yet on Palm OS)
- Updated and improved NFPA 704 data
- Improved NFPA 704 presentation, including placard displays (not yet on Palm OS)
- Searching and grouping by NFPA 704 hazards in "Help Identify" is now available on the Pocket PC (as well as WISER for Windows and WebWISER)
- Support for non-standard Pocket PC screen sizes and orientations
- Event Tracking (logging) added to WISER for Windows and Pocket PC (see the User's Guide)
- And more! See the README files in the respective downloads

WISER for Windows and Pocket PC require installation of version 2.0 of the Microsoft .NET Framework, which will occur automatically, if necessary. This allows for the support of non-standard Pocket PC displays, and a faster, light-weight database engine. Previous versions of .NET are no longer required by WISER and can likely be uninstalled. See the README of the respective downloads for more details.

Coming soon- NLM is currently working on WISER 3.0, which will add functionality related to:

- Substance categorization
- Radiological substance data and tools
- More comprehensive ERG support

NLM® Announces the New Bioethics Information Resources Web Page

December 18, 2006 [posted]

NLM announces a new consolidated Bioethics Information Resources Web page. This new easy-to-use electronic resource will assist users, whether they are specialists in the field or researchers or clinicians or the general public, in finding the bioethics information they need by searching NLM databases as well as linking to other Federal government and outside resources. To read more about this new Web page please see the NLM News and Events Announ

Health Literacy Search Added to Special Queries

December 19, 2006 [posted]

A subject page for health literacy is now available from NLM's® Special Queries resource page (link from PubMed's® blue sidebar). This page provides a PubMed search strategy and selected links to other sources of health literacy information.

The MEDLINE/PubMed health literacy search retrieves citations to English language journal literature. Users are encouraged to use features of PubMed to focus the search or expand it. For example, to focus the search, consider using the PubMed Limits tab. To expand the search, use the Related Articles feature.

For more information on the Special Queries Resource in PubMed see *New Special Queries Resource in PubMed*®. *NLM TechBull.* 2005 Mar-Apr; (343):e1. For information about National Library of Medicine grants for "Understanding and Promoting Health Literacy" (new R01 version that joins the R03 and R21 versions), see <http://grants.nih.gov/grants/guide/pa-files/PAR-07-020.html>

Funding Support Web Page Revised

December 20, 2006 [posted]

The National Library of Medicine® has updated its electronic resource that explains the various research funding support tags that are searchable in PubMed®.

New NCBI Database of Genotype and Phenotype (dbGaP)

December 27, 2006 [posted]

NLM® and the National Center for Biotechnology Information announce the introduction of the Database of Genotype and Phenotype (dbGaP), a new database designed to archive and distribute data from genome wide association (GWA) studies. GWA studies explore the association between specific genes (genotype information) and observable traits, such as blood pressure and weight, or the presence or absence of a disease or condition (phenotype information). See the press release for more information.

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November 16, 2006 [posted]

What's New for 2007 MeSH®

This article highlights the additions and changes in 2007 Medical Subject Headings (MeSH).

Overview of Vocabulary Development and Changes for 2007 MeSH

- 494 Descriptors were added for 2007 MeSH
- 99 Descriptor terms were replaced with more up-to-date terminology
- 22 Descriptors were deleted

Totals by Type of Terminology

- 24,357 Descriptors
- 83 Subheadings/Qualifiers
- 164,331 Supplementary Concept Records (SCRs)

New 2007 Descriptors by Tree Category

Anatomy [A]	23
Organisms [B]	61
Diseases [C]	70
Chemicals and Drugs [D]	255
Analytical, Diagnosis and Therapeutic Techniques and Equipment [E]	35
Psychiatry and Psychology [F]	6
Biological Sciences [G]	53
Physical Sciences [H]	7
Anthropology, Education, Sociology and Social Phenomena [I]	3
Technology and Food and Beverages [J]	7
Information Science [L]	1
Persons [M]	1

Additional Information:

- MeSH® Category V Terms: Change in Treatment from MeSH Heading to Publication Type During Year-End-Processing for Both MEDLINE® and NLM Catalog
- MEDLINE®/PubMed® End-of-Year Activities
- 2007 MeSH® Now Available
- Changes to OLDMEDLINE Records - Status Tag Change
- MEDLINE® Data Changes — 2007
- Annual MEDLINE/PubMed Year-End Processing Activities Web Page

The total by Tree Category exceeds 494 because some descriptors occur in more than one category.

2007 MeSH is available for downloading from the Web site and can be searched and viewed using the MeSH Browser.

Organisms

Thirty-one new virus descriptors were added and 27 descriptors were replaced with more up-to-date terminology. Numerous descriptors for specific DNA viruses were added.

Drugs and Chemicals

About half of the new descriptors in 2007 MeSH are drugs or chemicals. Of those, 136 are categorized as amino acids, peptides, and proteins (D12). Many descriptors for apolipoproteins, interleukin receptors, and many specific keratins were added.

By Jacque-Lynne Schulman
MeSH Section

Schulman J. What's New for 2007 MeSH. NLM Tech Bull. 2006 Nov-Dec;(353):e2.

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November 16, 2006 [posted]

December 01, 2006 [Sentence modified]

MEDLINE® Data Changes — 2007

This time of year the *NLM Technical Bulletin* traditionally includes information on changes made to MEDLINE® during annual National Library of Medicine® (NLM®) maintenance known as Year-End Processing. This article collects in one place the notable data changes for 2007; mention of a topic may be linked to another article where details will be found. For information on how this maintenance affects the NLM schedule for adding indexed MEDLINE citations to PubMed®, see the article, *MEDLINE®/PubMed® End-of-Year Activities*. *NLM Tech Bull.* 2006 Sep-Oct;(352):e6.

A new Web page, National Library of Medicine (NLM) Annual MEDLINE/PubMed Year-End Processing Activities, provides background and examples about the typical changes that take place for MEDLINE citations during year-end processing.

MeSH® Vocabulary Updated for 2007

The MeSH Browser currently contains a link to the 2007 MeSH vocabulary. Searchers should consult the Browser to find MeSH headings of interest and to see these in relationship to other headings. The Browser contains MeSH Headings 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 that are not MeSH Headings.

For highlights about 2007 MeSH see the article, *What's New for 2007 MeSH*, in this issue of the *NLM Technical Bulletin*.

PubMed's MeSH database and translation tables will be updated to reflect 2007 MeSH in mid-December when end-of-year activities are complete and the newly maintained MEDLINE data are available in PubMed.

Updated MeSH in MEDLINE Citations

MEDLINE citations with updated MeSH should be in PubMed in mid-December 2006. See the Changing a saved search section in PubMed Help for details on revising My NCBI stored searches.

The MeSH Section homepage provide links to descriptions of the different types of MeSH maintenance applied to

Additional Information:

- MeSH® Category V Terms: Change in Treatment from MeSH Heading to Publication Type During Year-End-Processing for Both MEDLINE® and NLM Catalog
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- Annual MEDLINE/PubMed Year-End Processing Activities Web Page
- What's New for 2007 MeSH®

MEDLINE citations. In addition to the information found in the Introduction to MeSH, the About Updates link under the "MEDLINE Citation Maintenance" section explains how NLM prepares the changes in a machine-readable form for others to use. To access the XML files for the tasks processed for this maintenance, click on the "Download XML Files" link under this same section. This information is helpful for those individuals or organizations who apply MeSH headings to their own application (such as indexing curricula guides) and want to keep those applications up-to-date with the new year of MeSH.

New MeSH Headings

This year 494 new MeSH Headings were added.

Typically, NLM does not retrospectively re-index MEDLINE citations with new MeSH Headings. Therefore, searching for a new MeSH term tagged with [mh] or [majr] effectively limits retrieval to citations indexed after the term was introduced. PubMed's Automatic Term Mapping (ATM) expands an untagged subject search to include both MeSH Term and Text Word(s), and may retrieve relevant citations indexed before the introduction of a new MeSH term.

A notable exception this year to the general rule of not retrospectively re-indexing MEDLINE citations with brand new concepts is Papillomavirus Vaccines, a new 2007 Category D heading shown below. The scientific importance of this topic prompted NLM to add this new heading to existing citations. Searching on Papillomavirus Vaccines will, therefore, retrieve citations indexed before the implementation of 2007 MeSH even though the History Note in the 2007 MeSH Browser shows 2007 as the date of introduction for this concept.

Brand New Concepts

Examples of new 2007 MeSH headings of special interest to searchers are highlighted below by Category to give you an idea of what is forthcoming. Be sure to use the link above to browse all of the new 2007 concepts.

Category A

- Embryonic Stem Cells
- Fetal Stem Cells
- Adult Stem Cells

Please note that NLM indexing policy for these three new terms above dictates that if the article discusses transplantation of a specific type of stem cells, indexers shall index the specific stem cell with the subheading /transplantation. They will not coordinate with STEM CELL TRANSPLANTATION.

- Blastocyst Inner Cell Mass [related to stem cells]

Category C

- Cardiovascular Infections
- Female Athlete Triad Syndrome
- Lethargy
- Stupor

Category D

- Dengue Vaccines
- Herpes Zoster Vaccines
- Papillomavirus Vaccines
- West Nile Virus Vaccines

Category G

- DNA Breaks
- DNA Breaks, Double-Stranded
- DNA Breaks, Singly-Stranded
- DNA Cleavage
- DNA Degradation, Necrotic
- DNA Fragmentation

- DNA Mismatch Repair
- Environmental Remediation
- Extinction, Biological
- Gene Regulatory Networks
- Herbicide Resistance
- Microsatellite Instability
- Wetlands

Category J

- Metal Nanoparticles
- Nanocapsules
- Nanocomposites
- Nanoparticles
- Nanowires

Category M

- Infant, Extremely Low Birth Weight

[weight at birth is fewer than 1000 grams (2.2 lbs), regardless of gestational age]

Changes to MeSH Headings

This year, 120 MeSH Headings were either changed or deleted and replaced with more up-to-date terminology. During year-end processing, NLM updates MeSH headings on the MEDLINE citations.

In addition to the replaced-by heading changes, year-end processing includes adjustments to MEDLINE citations to reflect 2007 MeSH vocabulary and to enhance search retrieval. These follow-on adjustments are largely the adding of more MeSH headings or Supplementary Concept Record Names of Substances (NM) 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. Some examples follow.

These types of changes suggest the importance of routinely using PubMed's Details feature when searching to see how terms are mapped in the new year's vocabulary and then checking the MeSH Browser or PubMed's MeSH database for clarification.

Replaced heading; old heading deleted and not retained as entry term to new heading; adjustments to search strategies needed; further adjustments made to existing citations

Example:

In 2006 MeSH, the term Urogenital Diseases was in two trees under:

- Urologic and Male Genital Diseases
- Female Genital Diseases and Pregnancy Complications

In 2007 MeSH, the term Urogenital Diseases was deleted and replaced with:

- Female Urogenital Diseases

The term Urologic and Male Genital Diseases was replaced with:

- Male Urogenital Diseases

Citations previously indexed with Urogenital Diseases will be globally maintained to have this term replaced with the term Female Urogenital Diseases. Therefore, NLM will be processing additional tasks to insure that the citations properly have the correct MeSH heading Female Urogenital Diseases and/or Male Urogenital Diseases on them.

Example:

In 2007 MeSH, Tampons is being replaced with the heading Tampons, Surgical. Citations indexed to Tampons will get this new heading. NLM will be processing follow-up tasks to insure that citations which were related to Menstrual

Hygiene Products will get that appropriate heading rather than the Tampons, Surgical heading.

Replaced heading; old heading deleted and not retained as entry term to new heading; adjustments to search strategies needed; no further adjustments made to existing citations beyond the replaced headings

Example:

In 2007, the MeSH heading Nutrition was split into two concepts:

Nutritional Sciences

Nutrition Physiology

A global change will replace Nutrition on previously indexed citations with the heading Nutrition Physiology. A similar change will happen for other Nutrition headings:

Adolescent Nutrition	to	Adolescent Nutrition Physiology
Animal Nutrition	to	Animal Nutrition Physiology
Child Nutrition	to	Child Nutrition Physiology
Infant Nutrition	to	Infant Nutrition Physiology
Maternal Nutrition	to	Maternal Nutrition Physiology
Prenatal Nutrition	to	Prenatal Nutrition Physiology

Nutritional Sciences (or its specifics) is to be used to index articles about nutrition as a specialty and/or about educational, historical, economic, and legislative aspects of nutrition.

Nutrition Physiology (or its specifics) is to be used to index articles about physiological, immunological and genetic aspects of nutrition.

Example:

Another example of a heading that has been deleted from the MeSH vocabulary is:

Interleukin 14

Citations that had Interleukin 14 on them will have this term replaced with the general term Interleukins.

Scope Note Change

Example:

A term whose scope note definition has changed for 2007 is:

Genes, MDR

In 2006 this term was restricted to mammalian cells (eukaryotes).

In 2007 the term's definition expanded to include prokaryotes as well as eukaryotes.

Entry Term Elevation

Example:

An entry term that has been elevated to a new MeSH heading is:

Pollen Tube

Pollen Tube had been an entry term to the MeSH heading Flowers. If Pollen Tube was used in saved searches, it retrieved citations indexed to Flowers. Now, for 2007, the meaning is more specific.

Retreeing

The position of headings in the MeSH Trees can change from year to year.

Example:

Vitamins is now in the J2 tree as well as the D27 tree for 2007 MeSH.

Other Notable MeSH Changes and Related Impact on Searching

Publication Type Change

All of the MeSH Category V terms previously identified as MeSH Headings (MH) will be identified as Publication Type (PT) values in the MEDLINE citations:

1. *[The following sentence was modified on December 1, 2006.]*

The V04 branch of six descriptors of which the five indented terms are used for indexing on journal citations:

- Support of Research [V04]
 - Research Support, Non-U.S. Gov't [V04.124]
 - Research Support, U.S. Gov't, Non-P.H.S. [V04.249]
 - Research Support, U.S. Gov't, P.H.S. [V04.500]
 - Research Support, N.I.H., Extramural [V04.500.500]
 - Research Support, N.I.H., Intramural [V04.500.750]

2. In Vitro [V03.500]

3. Comparative Study [V03.250]

4. English Abstract [V01.260]

Entry Combination Revisions

This year during year-end processing, NLM will again retrospectively replace certain MeSH heading/subheading combinations, known as entry combinations, with the appropriate precoordinated MeSH heading or other MeSH heading/subheading combination in MEDLINE citations. Searchers who get zero retrieval for a MeSH Heading/subheading combination may want to check the 2007 MeSH Browser for the heading to see if the Entry Combination information indicates a different term.

Here are the eighteen Entry Combinations new for 2007:

Previous MeSH Heading/Subheading (Entry Combination)	Replaced Heading for 2007
Cell Nucleus/transplantation	Nuclear Transfer Techniques
Edar-Associated Death Domain Protein/deficiency	Ectodermal Dysplasia, Hypohidrotic, Autosomal Recessive
Keratin-1/deficiency	Hyperkeratosis, Epidermolytic
Keratin-3/deficiency	Corneal Dystrophy, Juvenile Epithelial of Meesmann
Keratin-4/deficiency	Leukokeratosis, Hereditary Mucosal
Keratin-5/deficiency	Epidermolysis Bullosa Simplex
Keratin-6/deficiency	Pachyonychia Congenita

Keratin-9/deficiency	Keratoderma, Palmoplantar, Epidermolytic
Keratin-10/deficiency	Hyperkeratosis, Epidermolytic
Keratin-12/deficiency	Corneal Dystrophy, Juvenile Epithelial of Meesmann
Keratin-13/deficiency	Leukokeratosis, Hereditary Mucosal
Keratin-14/deficiency	Epidermolysis Bullosa Simplex
Keratin-16/deficiency	Pachyonychia Congenita
Keratin-17/deficiency	Pachyonychia Congenita
Nails/abnormalities	Nails, Malformed
PHEX Phosphate Regulating Neutral Endopeptidase/deficiency	Hypophosphatemic Rickets, X-Linked Dominant
Transforming Growth Factor beta1/deficiency	Camurati-Engelmann Syndrome
alpha-Galactosidase/deficiency	Fabry Disease

Additional Changes to MEDLINE and OLDMEDLINE Data

1. OLDMEDLINE Status change

There are two changes. First the status tag [PubMed - OLDMEDLINE for pre1966] will be simplified to [PubMed - OLDMEDLINE]. The second change is for those OLDMEDLINE citations which have had their Old Term keyword mapping to MeSH completed, the PubMed citation status will be changed from [PubMed - OLDMEDLINE] to [PubMed - indexed for MEDLINE]. These records will be retrieved when limiting to the MEDLINE subset, or when searching medline [sb]. Searchers not interested in these older citations are advised to restrict their searches using the date range function within the Limits feature, or to set up a filter for publication date.

2. Partial Retraction notations

NLM is adding two fields to the MEDLINE citation: Partial retraction in and Partial retraction of. These fields are established as a means of distinguishing between a journal article that is retracted in whole (reflected by the use of the already existing Retraction of and Retraction in elements) versus one that is retracted in part (e.g., a cell line was contaminated but that didn't affect all results/conclusions of the paper). Partial retraction of contains the bibliographic reference of an article being partially retracted, and is present in the citation for the notice of partial retraction. Partial retraction in contains the bibliographic reference of the notice of partial retraction, and is present in the citation for the original paper.

Beginning in December 2006 NLM will begin to cite partial retractions. Older citations may be edited to use these new fields.

Partial Retraction	
Summary Display:	Partial retraction in:
Abstract/Citation Displays:	Partial retraction in: Partial retraction of:
MEDLINE Display:	PRIN PROF

Search phrase:	haspartialretractionin haspartialretractionof
XML names:	PartialRetractionIn PartialRetractionOf

3. Full Journal Title format change in MEDLINE citations

Some MEDLINE journal titles contain the general material designation (GMD), within brackets, as a part of the full journal title. NLM is removing the bracketed GMD from the journal titles during year-end processing. However, you may find this change reflected on some citations before the new system is available in mid-December. Generally this designation is the value [electronic resource]. With so many journals now available online the qualifier is not necessary for the journal title display. Ending periods are also being removed.

The following example shows how a full journal title with a GMD currently looks in the MEDLINE display in PubMed:

JT — *BMC bioinformatics* [electronic resource].

After the title has been revised it will look like this:

JT — *BMC bioinformatics*

The full journal title display in the Journals database will also change.

Additional Information

Consult the new Annual MEDLINE/PubMed Year-End Processing Activities Web page for information about:

- Heading Mapped-To (HM) Maintenance
- EC/RN Numbers (RN) and Name of Substance (NM)
- Supplementary Concept Records (SCRs) Elevated to MeSH Headings
- Pharmacological Actions (PA)

By Sara Tybaert
MEDLARS Management Section

Tybaert S. MEDLINE Data Changes — 2007. NLM Tech Bull. 2006 Nov-Dec; (353):e3.

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November 20, 2006 [posted]

Cataloging News 2007

MeSH® 2007 — Implications for LocatorPlus™ and the NLM Catalog

The National Library of Medicine® (NLM®) adopted the 2007 MeSH vocabulary for cataloging and for records being created by collaborating data producers beginning on November 20, 2006.

Accordingly, MeSH subject headings in LocatorPlus were changed to reflect the 2007 MeSH vocabulary and appear in that form as of November 20, 2006.

When end-of-year activities are complete in mid-December, the NLM Catalog's MeSH database and translation tables will be updated to reflect 2007 MeSH. Bibliographic records with updated MeSH should appear in the NLM Catalog in mid-December 2006. Until then, note that there will be a hiatus in the addition of new and edited bibliographic records to the NLM Catalog.

MeSH Changes in NLM Bibliographic Records

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®. For highlights about 2007 MeSH, see the articles *What's New for 2007 MeSH®* and *MEDLINE® Data Changes — 2007*.

Additionally, the following nine (9) terms previously treated as MeSH headings, coded, and viewable in the MARC View tab in the MARC 21 field 650 are now identified as publication types and appear in the MARC 21 field 655. For more information, see *Tybaert S. MeSH® Category V Terms: Change in Treatment from MeSH Heading to Publication Type During Year-End-Processing for Both MEDLINE® and NLM Catalog. NLM Tech Bull. 2006 Sep-Oct;(352):e2*.

- Support of Research¹
 - Research Support, Non-U.S. Gov't
 - Research Support, U.S. Gov't, Non-P.H.S.
 - Research Support, U.S. Gov't, P.H.S.
 - Research Support, N.I.H., Extramural¹

Additional Information:

- MeSH® Category V Terms: Change in Treatment from MeSH Heading to Publication Type During Year-End-Processing for Both MEDLINE® and NLM Catalog
- MEDLINE®/PubMed® End-of-Year Activities
- MEDLINE® Data Changes — 2007
- What's New for 2007 MeSH®
- Annual MEDLINE/PubMed Year-End Processing Activities Web Page
- 2007 MeSH® Now Available
- Changes to OLDMEDLINE Records - Status Tag Change

- Research Support, N.I.H., Intramural¹
- In Vitro
- Comparative Study
- English Abstract

In LocatorPlus, this change affects searching of these terms when using the "Advanced Menu Search" tab. In this case, enter the term in the "Search" box and select "Publication Type" from the "Search As" dropdown box as in Figure 1.

The image shows a screenshot of the LocatorPlus search interface. At the top, there is a link labeled "How to Do an Advanced Search". Below it are two tabs: "Simple Search" and "Advanced Menu Search", with the latter being the active tab. The search area contains a "Search:" label followed by a text input field containing the text "research support, non-u.s. gov't". To the right of the input field is a dropdown menu currently set to "as a phrase". Further right is an "As:" label followed by another dropdown menu set to "Publication Type".

Figure 1: Advanced Menu Search for Publication Type in LocatorPlus.

Additional Database Changes in LocatorPlus

The following changes were made to data structure in order to conform to the *MARC 21 Format for Bibliographic Data* published by the Library of Congress.

- For continuing resources, 008 byte 20 has been changed to the value "blank" and the 022 \$2 subfield representing the source of the ISSN has been implemented.
- Where possible, certain retrospective bibliographic records for integrating resources were changed to reflect current coding conventions (e.g., Leader byte 6 coded "i", the appropriate 008 fixed field for continuing resources, and, as needed, the appropriate 006 for non-textual integrating resources). Candidate records included identifiable updating print loose-leafs and bibliographic records created since December 2002 according to the interim practice in which Web sites, loose-leafs, and databases were cataloged as monographs. With this change, prospectively NLM records will conform to current MARC 21 guidelines.

Additionally, due to its role as a provider of bibliographic records, NLM has converted all existing valid 10-digit ISBN data to conform to the fourth edition of ISO 2108:2105 *International Standard Book Number (ISBN)*² published in May 2005. Retrospective records containing a valid ISBN-10 now also contain a valid ISBN-13. All valid ISBNs appear in LocatorPlus (see Figure 2) and the NLM Catalog (see Figure 3) with the label "ISBN."

Holdings	Details	Table of Contents	MARC View	More Like This
--------------------------	-------------------------	-----------------------------------	---------------------------	--------------------------------

Work and caring for the elderly : international perspectives / edited by...

Title: Work and caring for the elderly : international perspectives / edited by Viola M. Lechner, Margaret B. Neal.

Author(s)/Name(s): [Lechner, Viola M.](#)
[Neal, Margaret B.](#)

Description: xv, 246 p. ; 24 cm.

Publisher: Philadelphia, PA : Brunner/Mazel, c1999.

ISBN: 9780876309964 (case : alk. paper)
0876309961 (case : alk. paper)
9780876309971 (pbk. : alk. paper)
087630997X (pbk. : alk. paper)

NLM Unique ID: 100901950

Figure 2: LocatorPlus Holdings Display Showing 10- and 13-digit ISBN.

NLM Holdings in LocatorPlus		Links
<input type="checkbox"/> 1:	<p>Author(s): Lechner, Viola M; Neal, Margaret B</p> <p>Title(s): Work and caring for the elderly : international perspectives / edited by Viola M. Lechner, Margaret B. Neal.</p> <p>Publisher: Philadelphia, PA : Brunner/Mazel, c1999.</p> <p>Description: xv, 246 p. ; 24 cm.</p> <p>Language: English</p> <p>ISBN: 9780876309964 (case : alk. paper) 0876309961 (case : alk. paper) 9780876309971 (pbk. : alk. paper) 087630997X (pbk. : alk. paper)</p>	

Figure 3: NLM Catalog Expanded Display Showing 10- and 13-digit ISBN.

In the MARC View tab of LocatorPlus, all ISBN data displays in one or more occurrences of MARC 21 field 020 (see Figure 4).

Holdings	Details	Table of Contents	MARC View	More Like This
--------------------------	-------------------------	-----------------------------------	---------------------------	--------------------------------

Work and caring for the elderly : international perspectives / edited by...

000 01398cam a22004694a 45e
001 901950
005 20061021035255.0
008 991201s1999 pau b 001 0 eng
010 __ |a 99-33102
015 __ |a GB99-66544
020 __ |a 9780876309964 (case : alk. paper)
020 __ |a 0876309961 (case : alk. paper)
020 __ |a 9780876309971 (pbk. : alk. paper)
020 __ |a 087630997X (pbk. : alk. paper)

Figure 4: LocatorPlus MARC View Display for ISBN data in field 020.

¹This term has not been used on any bibliographic records in LocatorPlus.

²For more information, see the Book Industry Study Group's Web site: <http://www.bisg.org/isbn-13/> or NISO's ISBN FAQ for librarians: <http://www.niso.org/standards/resources/ISBN.html#FAQ>.

By Alice Jacobs
Cataloging Section

Jacobs A. Cataloging News 2007. NLM Tech Bull. 2006 Nov-Dec; (353):e4.

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December 05, 2006 [posted]

PubMed® Notes for 2007

The following notes explain how PubMed® or searching with PubMed may be affected by changes to MEDLINE® or MeSH® vocabulary for the 2007 system, some of which has been described in the articles listed under *Additional Information* in the box to the right. Searchers are advised to consider any stored strategies, e.g., My NCBI saved searches, URL links to PubMed, and RSS feeds, which may need to be revised.

- The **Limits** page menu for "Type of Article" was modified to include nine new Publication Types, including Comparative Study. These MeSH terms were treated as headings until this year.
- The status tag for OLDMEDLINE records has changed from [PubMed - OLDMEDLINE for pre1966] to [PubMed - OLDMEDLINE].
- The option for **OLDMEDLINE** was removed from the Limits "Subsets" menu. The reduced number of citations in this subset and the growing number of older

Additional Information:

- MeSH® Category V Terms: Change in Heading to Publication Type During Year-End-Processing for Both MEDLINE® and NLM Catalog
- MEDLINE®/PubMed® End-of-Year Activities
- MEDLINE® Data Changes - 2007
- 2007 MeSH® Now Available
- Changes to OLDMEDLINE Records - Status Tag Change
- Annual MEDLINE/PubMed Year-End Processing

citations being added to PubMed that are not part of the OLDMEDLINE project, have lessened the value of this subset as a limit for searching. The direct search, oldmedline [sb], can still be used.

Activities Web Page

- What's New for 2007 MeSH®
- MEDLINE® UI Index Discontinued in PubMed®.

To limit to older citations, use the Dates section in Limits. Select "Specify date range" on the "Published in the Last:" menu. It is only necessary to enter the latest date of interest (see Figure 1).

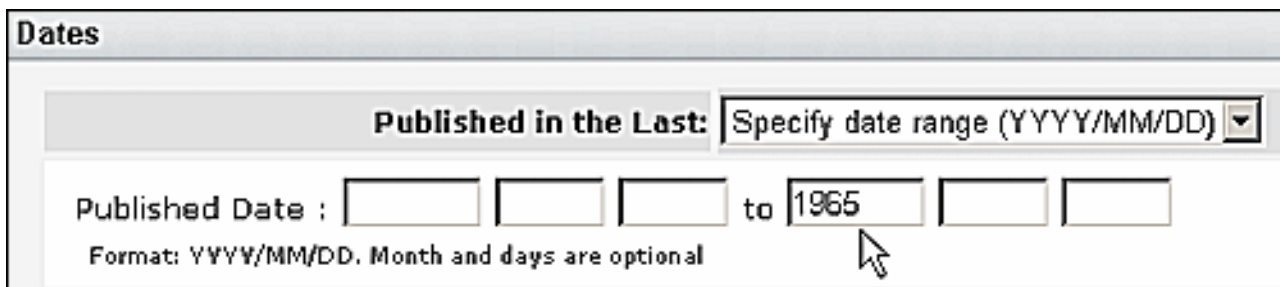


Figure 1: The PubMed Limits screen showing that only the "end" date is needed to retrieve citations for articles published before or during a particular year.

- A new type of Comment/Correction notation has been added to PubMed citations to indicate when an article has been partially retracted. Citations for the partial retraction will display the note, **Partial retraction of**, followed by citation information for the article being partially retracted. The citation for the article being partially retracted will have the notation, **Partial retraction in**, followed by citation information. Whenever possible, there will be links between the related citations.

See the chart below for Comment/Correction types, and search and display information effective with the implementation of the 2007 system in mid-December 2006.

Comment Correction Type	Search as	MEDLINE Display Field Tag
-------------------------	-----------	---------------------------

Comment in:	hascommentin	CIN
Comment on:	hascommenton	CON
Erratum in:	haserratumin	EIN
Erratum for:	haserratumfor	EFR
Corrected and republished in:	hascorrectedrepublishedin	CRI
Corrected and republished from:	hascorrectedrepublishedfrom	CRF
Retraction in:	hasretractionin	RIN
Retraction of:	hasretractionof	ROF
Partial retraction in:	haspartialretractionin	PRIN
Partial retraction of:	haspartialretractionof	PROF
Update in:	hasupdatein	UIN
Update of:	hasupdateof	UOF
Summary for patients in:	hassummaryforpatientsin	SPIN
Original Report in:	hasoriginalreportin	ORI
Republished in:	hasrepublishedin	RPI
Republished from:	hasrepublishedfrom	RPF

- **MUID** (MEDLINE Unique Identifier) data has been removed from records. The PMID remains as the unique identifier for PubMed records.
- **Print dates of publication and electronic dates of publication** can now be searched independently of one another. The search tag for print publication date is [ppdat] and the search tag for electronic publication date is [epdat]. The standard PubMed date format, YYYY/MM/DD, should be used. Ranging is also available.

Examples:

2006/01 [ppdat]

2005/10/01:2006/09/30 [epdat]

Please be aware that the recommended method for publication date searching remains using the *Date of Publication* (found on PubMed's Limits screen, or with the search tag, [dp], for direct searching) as it includes both print and electronic dates (see PubMed Help). These new options are available to assist users creating queries for LinkOut resource files.

By Annette M. Nahin
MEDLARS Management Section

Nahin A. PubMed® Notes for 2007. NLM Tech Bull. 2006 Nov-Dec; (353):e5.

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December 22, 2006 [2nd Edition]

PubMed Central®: New Journals Participating and New Content Added

New Journals Participating

Cancer Imaging

[Posted in *NLM Technical Bulletin* Dec 22, 2006]

The journal *Cancer Imaging* is now participating in PubMed Central, beginning with issue 2004;4(1) to 2005;5(1).

Cancer Imaging

ISSN: 1740-5025 (Print)

ISSN: 1470-7330 (Electronic)

Title Abbreviation: Cancer Imaging

Publisher: e-med

NLM ID: 101172931

PMC Full text coverage: from 2004;4(1) to 2005;5(1).

PMC URL: <http://www.pubmedcentral.gov/tocrender.fcgi?action=archive&journal=315>

American Journal of Pharmaceutical Education

[Posted in *NLM Technical Bulletin* Dec 5, 2006]

The journal *American Journal of Pharmaceutical Education* is now participating in PubMed Central, beginning with issue 2006 Feb;70(1) to 2006 Oct;70(5).

American Journal of Pharmaceutical Education

ISSN: 0002-9459 (Print)

ISSN: 1553-6467 (Electronic)

Title Abbreviation: Am J Pharm Educ

NLM ID: 0372650

PMC Full text coverage: from 2006 Feb;70(1) to 2006 Feb;70(5).

PMC URL: <http://www.pubmedcentral.gov/tocrender.fcgi?action=archive&journal=383>

PubMed Central®: New Journals Participating and New Content Added. NLM Tech Bull. 2006 Nov-Dec;(353):e6.

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