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2016 November 30

Detailed Indexing Statistics: 1965-2016

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2016 November 30

MEDLINE® Data Entry by Fiscal Year

2016 November 30

Fact Sheet: The National Library of Medicine

2016 November 01

Most Popular

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- What is Bioinformatics Librarianship?
- What's New for 2017 MeSH
- MEDLINE Data Changes — 2017

2016 NOVEMBER–DECEMBER No. 413

Issue Completed December 29, 2016

NLM News Announcements

Request for Information: Strategic Plan for the National Library of Medicine

2016 November 09

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Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

Redesigned NNLN Web Site

Redesigned NNLN Web Site. NLM Tech Bull. 2016 Nov-Dec;(413):b11.

2016 December 28 [posted]

In December 2015, the National Network of Libraries of Medicine (NNLM) launched a redesigned Web site. In addition to the new look and responsive design, a number of features were added or updated:

- Create NNLN user accounts. An account allows you to register for classes and update NNLN member organizations.
- The new NNLN Members Directory provides an easy way to find member organizations by name, region, state, city, county, and organization type.
- The funding opportunities page offers an overview of the available NNLN awards.
- See a list of past funded projects for a better understanding of the types of projects the NNLN funds.

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Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

Newly Maintained MEDLINE for 2017 MeSH Now Available in PubMed

Newly Maintained MEDLINE for 2017 MeSH Now Available in PubMed. NLM Tech Bull. 2016 Nov-Dec;(413):b10.

2016 December 19 [posted]

As of December 12, PubMed/MEDLINE citations, the NLM Catalog, and the MeSH translation tables were updated to reflect 2017 MeSH, with full searching functionality for Supplementary Concept Record (SCR) data and mapping in place on December 14. The citations newly indexed with 2017 MeSH since November 15 were available in PubMed for searching on December 15.

Now that end-of-year activities are complete, MEDLINE/PubMed may be searched using 2017 MeSH vocabulary. See *MEDLINE Data Changes — 2017* for details on the data changes. NLM has resumed daily MEDLINE updates to PubMed.

Other pertinent articles:

MEDLINE/PubMed Year-End Processing Activities

2017 MeSH Now Available in the MeSH Browser

MEDLINE Data Changes - 2017

Cataloging News 2017

What's New for 2017 MeSH

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Last updated: 19 December 2016

Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

NNLM Webinar: What is Bioinformatics Librarianship?

NNLM Webinar: What is Bioinformatics Librarianship? NLM Tech Bull. 2016 Nov-Dec;(413):b9.

2016 December 16 [posted]

A growing number of librarians are filling a special niche in the information world: Serving those who work with genetic and molecular biology information. In this one-hour Webinar on January 12, 2017, meet eight of your colleagues as they explain their specialized and uniquely valuable roles at their institution:

- Julie A Arendt, Virginia Commonwealth University
- Marci Brandenburg, University of Michigan
- Rolando Garcia-Milan, Yale University
- Karen H Gau, Virginia Commonwealth University
- Tobin Magle, Colorado State
- Robyn Reed, Penn State University
- Elliott Smith, University of California, Berkeley
- Rob Wright, Johns Hopkins Medicine

Following the Webinar, you will be invited to participate in a focus group to help the National Network of Libraries of Medicine (NNLM) design bioinformatics education for librarians who serve biomedical researchers and practitioners, as well as those who serve a broader audience.

Date and time: Thursday, January 12, 2017, 1:00 PM EST

To register, go to: <https://nnlm.gov/class/what-bioinformatics-librarianship/6666>

Moderated by: Peter Cooper, NCBI & Kate Majewski, NLM

Hosted by: The National Network of Libraries of Medicine (NNLM) Training Office and the NNLM Bioinformatics Education Working Group

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Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

NLM Releases 2017 MeSH RDF Beta

NLM Releases 2017 MeSH RDF Beta. NLM Tech Bull. 2016 Nov-Dec;(413):b8.

2016 November 25 [posted]

The National Library of Medicine (NLM) is pleased to announce an updated beta release of MeSH (Medical Subject Headings) RDF (Resource Description Framework) on November 21, 2016. This most recent beta release is based on 2017 MeSH. Release notes are documented at <https://hhs.github.io/meshrdf/release-notes.html>.

Have questions or want to provide feedback? Let us hear from you. Join us on GitHub at <https://github.com/HHS/meshrdf/issues/> and tweet us using #NLMLD.

To learn more about the overall project check out our information page at <https://id.nlm.nih.gov/mesh/>.

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Last updated: 25 November 2016

Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

NLM Director Launches Blog

NLM Director Launches Blog. NLM Tech Bull. 2016 Nov-Dec;(413):b7.

2016 November 18 [posted]

On November 14, 2016, National Library of Medicine Director, Dr. Patricia F. Brennan, launched her new blog: “NLM Musings from the Mezzanine.”

Dr. Brennan will share her impressions as the new Director of the world’s largest biomedical library, the U.S. National Library of Medicine, and she invites you share your views.

You can follow her on Twitter: @NLMDirector.

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Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

Asian American Health Portal to Retire on November 21, 2016

Asian American Health Portal to Retire on November 21, 2016. NLM Tech Bull. 2016 Nov-Dec;(413):b6.

2016 November 14 [posted]

On November 21, 2016, the Asian American Health portal will be retired in order to concentrate efforts on multiple language health patient education materials.

Alternatively, MedlinePlus offers consumer health information including material that targets the specific health concerns of Asian American populations and HealthReach provides multilingual consumer health and patient education materials.

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Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

SNOMED CT: Spanish Edition of the International Release Now Available

SNOMED CT: Spanish Edition of the International Release Now Available. NLM Tech Bull. 2016 Nov-Dec;(413):b5.

2016 November 10 [posted]

The Spanish Edition of the International Release (Edición en Español) October 2016 is available for download. The Spanish Edition of the International Release is updated each year in April and October. This release contains the Spanish translations of the July 2016 SNOMED CT International Release descriptions and documentation.

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Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

Changes to the NLM Data Distribution Program

Changes to the NLM Data Distribution Program. NLM Tech Bull. 2016 Nov-Dec;(413):b4.

2016 November 10 [posted]

To make National Library of Medicine (NLM) data easier to find, access, and use, we have recently made the following changes to the NLM Data Distribution program:

1. **License Agreement for NLM Data discontinued:** Effective October 1, 2016, NLM implemented a Terms and Conditions statement pertaining to the use and reuse of NLM datasets previously covered under the License Agreement for NLM Data. All existing licenses have been terminated and there will be no longer be an annual renewal. MEDLINE/PubMed data can now be accessed, in accordance with the Terms and Conditions, from this page: https://www.nlm.nih.gov/databases/download/pubmed_medline.html.
2. **NLM Data Distribution Web content:** The Data Distribution Web content was refreshed to reflect changes to the program and enhance usability. The new homepage is: https://www.nlm.nih.gov/databases/download/data_distrib_main.html. Location for data files as well as documentation supporting those datasets are more visible and easier to navigate.
3. **XML data distribution FTP location:** To enhance efficiency, effective October 6, 2016, production and distribution of the MEDLINE/PubMed was assumed by the National Center for Biotechnology Information (NCBI). MEDLINE/PubMed Daily Update files as well as yearly MEDLINE/PubMed baseline files are now located at <ftp://ftp.ncbi.nlm.nih.gov/pubmed/updatefiles/> and <ftp://ftp.ncbi.nlm.nih.gov/pubmed/baseline/>.
4. **XML data content:** On October 6, 2016, NLM began exporting publisher-supplied citations with the MedlineCitation Status attribute: Publisher. Future annual MEDLINE/PubMed baselines will contain citations in this status. This will include all records with the attribute Publisher (see: https://www.nlm.nih.gov/bsd/licensee/elements_descriptions.html#medlinecitation) with one exception: book and book chapters delivered from the NCBI Bookshelf are not distributed via the NLM FTP server. These records are available through the NLM API, E-utilities.

We welcome feedback regarding these changes. Any comments or questions can be sent to nlmdatadistrib@nlm.nih.gov.

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NLM Webinar Series: "Insider's Guide to Accessing NLM Data: EDirect for PubMed"

NLM Webinar series: "Insider's Guide to Accessing NLM Data: EDirect for PubMed". NLM Tech Bull. 2016 Nov-Dec;(413):b3.

2016 November 02 [posted]

Beginning November 30, 2016, the National Library of Medicine (NLM) will present the three-part Webinar series "Insider's Guide to Accessing NLM Data: EDirect for PubMed".

This series of workshops will introduce new users to the basics of using EDirect to access exactly the PubMed data you need, in the format you need. Over the course of three 90-minute sessions, students will learn how to use EDirect commands in a Unix environment to access PubMed, design custom output formats, create basic data pipelines to get data quickly and efficiently, and develop simple strategies for solving real-world PubMed data-gathering challenges. No prior Unix knowledge is required; novice users are welcome!

This series of classes involves hands-on demonstrations and exercises, and we encourage students to follow along. Before registering for these classes, we strongly recommend that you:

- Watch the first Insider's Guide class "Welcome to E-utilities for PubMed," or be familiar with the basic concepts of APIs and E-utilities
- Be familiar with structured XML data (basic syntax, elements, attributes, etc.)
- Have access to a Unix command-line environment on your computer. For more information, see our Installing EDirect page.
- Install the EDirect software. For more information, see our EDirect installation page.

Due to the nature of this class, registration will be limited to 50 students per offering.

Registration is currently open for the November/December 2016 series:

- Part 1: Getting PubMed Data: Wednesday, November 30, 1:00 - 2:30 PM EST
- Part 2: Extracting Data from XML: Wednesday, December 7, 1:00 - 2:30 PM EST
- Part 3: Building Practical Solutions: Wednesday, December 14, 1:00 - 2:30 PM EST

Students are expected to attend Part 1, Part 2, and Part 3 in a single series.

To register, and for more information, visit: <https://dataguide.nlm.nih.gov/classes.html#edirect-for-pubmed>

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NLM Toxicology Tutorial "ToxTutor" Redesigned

NLM Toxicology Tutorial "ToxTutor" Redesigned. NLM Tech Bull. 2016 Nov-Dec;(413):b2.

2016 November 01 [posted]

[Editor's Note: This is a reprint of an announcement published as an NLM Toxicology and Environmental Health Information email update from the NLM Division of Specialized Information Services. To automatically receive news on resources, services, and outreach in toxicology and environmental health please see the subscribe page.]

The National Library of Medicine (NLM) has updated its online toxicology tutorial, ToxTutor. ToxTutor is a self-paced tutorial covering key principles of toxicology.

For almost 20 years, students and others have used ToxTutor to explore the fundamental principles of toxicology. The tutorial is written in plain language and includes helpful illustrations. It provides users of toxicology resources, including NLM chemical and toxicological databases, with a basic understanding of the subject.

ToxTutor introduces toxicology by covering dose and dose response, toxic effects, interactions, toxicity testing methods, risk assessment, and exposure standards and guidelines. Additional topics will be included in future updates. A certificate of completion option will be released next year.

ToxTutor is produced by the Toxicology and Environmental Health Information Program (TEHIP) of the National Library of Medicine.

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NLM Webinar: Resources for Alternatives to the Use of Live Vertebrates in Biomedical Research and Testing on December 8, 2016

NLM Webinar: Resources for Alternatives to the Use of Live Vertebrates in Biomedical Research and Testing on December 8, 2016. NLM Tech Bull. 2016 Nov-Dec;(413):b1.

2016 November 01 [posted]

The National Network of Libraries of Medicine Training Office (NTO) is pleased to announce a new Webinar on ALTBIB: Resources for Alternatives to the Use of Live Vertebrates in Biomedical Research and Testing.

This one-hour Webinar outlines the basics of ALTBIB and how to use it. Hands-on activities are included. Stephanie Publicker from NLM Specialized Information Services will be on hand to answer questions. The Webinar is free, open to anyone, and worth one MLA (Medical Library Association) CE (Continuing Education) credit.

Date and time: Thursday, December 8, 2016, 1:00 pm EDT

More information and registration at: https://nmlm.gov/ntc/classes/class_details.html?class_id=1067

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Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

New NLM Customer Support Portal

Whitney W. New NLM Customer Support Portal. NLM Tech Bull. 2016 Nov-Dec;(413):e10.

2016 December 22 [posted]

On December 15, 2016, NLM launched a new Customer Support portal with answers to the questions that our customers ask most often. Access the portal from the "NLM Customer Support" link in the top right corner of the NLM Web site (see Figure 1).



Figure 1: NLM customer support link.

From the Customer Support portal you can access information categorized by "Help Topics" and FAQs on "Most Popular Topics" including, "I found an error or mistake in PubMed; how do I get it fixed?" and "How do I get the full text of the article?" (see Figure 2).

NLM Customer Support

Help Topics

Health

Drugs & Medical Devices

PubMed

Indexing & Cataloging

Licensing & Copyright

Terminologies

History of Medicine

Training & Outreach

Grants & Funding

About NLM

Most Popular Topics

I found an error or mistake in PubMed; how do I get it fixed?

How do I get the full text of an article?

How do I recover or reset my MyNCBI username or password?

Why can't I find a citation in PubMed when other citations from the same journal are there?

How do I report an error in the MeSH terms assigned to an article in PubMed?

Figure 2: NLM customer support portal page.

We will continue to build our knowledge base of frequently asked questions so that our customers can find information quickly. However, you still have the option of filling out the "Contact NLM" form. We also encourage you to suggest questions to add to the portal.

To help make this a useful resource, at the bottom of each question and answer page you can rate the article. Love it? Give it a "thumbs up." Not helpful? Give it a "thumbs down" (see Figure 3) and then use the "Contact Us" button to tell us what would improve the answer. We welcome and value your feedback!

Rate the article

Rating: ★★★★★ 1 Votes

Was this answer helpful?

Figure 3: Rate an article.

By Wanda Whitney
Reference and Web Services Section

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Table of Contents: 2016 NOVEMBER–DECEMBER No. 413

New Health Services Research ONESearch

Gallagher, P. and Lang, L. New Health Services Research ONESearch. NLM Tech Bull. 2016 Nov-Dec;(413):e9.

2016 December 22 [posted]

In December 2016, the National Information Center on Health Services Research and Health Care Technology (NICHSR) released NICHSR ONESearch. This consolidated search site allows researchers to search two unique databases and two specialized web portals with one simple search:

- Health Services Research Projects in Progress (**HSRProj**) - information about ongoing health services research and public health projects
- Health Services and Sciences Research Resources (**HSRR**) - health services research and public health research relevant data sets, instruments and software
- Health Services Research Information Central (**HSRIC**) - links to high-quality news, data/tools/methods and grey literature selected to meet the needs of the health services research community
- Partners in Information Access for the Public Health Workforce (**PHPartners**) - access to selected public health resources

Searching

Search for a word or phrase (see Figure 1). Note: Use double quotes to search for phrases; Boolean operators are allowed.

NIH U.S. National Library of Medicine

Databases Find, Read, Learn Explore NLM Research at NLM NLM for You

Contact NLM

National Information Center on Health Services Research and Health Care Technology (NICHSR) NICHSR Home | About Us | Contact Us

Home > Health Services Research & Public Health > NICHSR

NICHSR ONESearch

Search all the NICHSR databases and web portals ([HSRProj](#), [HSRR](#), [HSRIC](#) and [PHPartners](#)) with one simple search.

Search: "public health accreditation" Search Clear

Enter one or more term(s) to search. Enter a multi-word term or phrase in quotes.
Examples: asthma; "long term care".

Check the [FAQ](#) for Searching Tips

Figure 1: NICHSR ONESearch search for "public health accreditation."

Your search results are ranked by relevance. The application of origin is in parenthesis after the title of the article/resource (see Figure 2).

National Information Center on Health Services Research and Health Care Technology (NICHSR)

Home > Health Services Research & Public Health > NICHSR > NICHSR One Search > Search Results

NICHSR Home | About Us | Contact Us

NICHSR ONESearch

public health accreditation Search [Search Help](#)

Results 1 - 10 of 142 for "public health accreditation"

refine by Application

- ▶ HSRIC (34)
- ▶ HSRProject (30)
- ▶ HSRR (1)
- ▶ PHPartners (78)

1. [Public Health Accreditation Board](#) (HSRIC)
... s health and prevent disease in humans. >> The Public Health Accreditation Board is a nonprofit organization dedicated to improving ...
www.phaboard.org - 705B
2. [Crosswalk Between Public Health Accreditation and Health Impact Assessment](#) (PHPartners)
... Articles Forum Tools & Resources New Report: Crosswalk Between Public Health Accreditation and Health Impact Assessment NACCHO recently released a new report highlighting the connection between public health accreditation and Health Impact Assessment (HIA). This document describes ...
essentialelements.naccho.org/archives/3988
3. [Public Health Accreditation Board](#) (PHPartners)
... s health and prevent disease in humans. >> The Public Health Accreditation Board is a nonprofit organization dedicated to improving ...
www.phaboard.org

Figure 2: Search results with resource of application."

In the left sidebar, use "refine by Application" to explore results from that resource more specifically (see Figure 3).

National Information Center on Health Services Research and Health Care Technology (NICHSR)

Home > Health Services Research & Public Health > NICHSR > NICHSR One Search > Search Results

NICHSR Home | About Us | Contact Us

NICHSR ONESearch

public health accreditation Search [Search Help](#)

Results 1 - 10 of 142 for "public health accreditation"

refine by Application

- ▶ HSRIC (34)
- ▶ HSRProject (30)
- ▶ HSRR (1)
- ▶ PHPartners (78)

1. [Public Health Accreditation Board](#) (HSRIC)
... s health and prevent disease in humans. >> The Public Health Accreditation Board is a nonprofit organization dedicated to improving ...
www.phaboard.org - 705B
2. [Crosswalk Between Public Health Accreditation and Health Impact Assessment](#) (PHPartners)
... Articles Forum Tools & Resources New Report: Crosswalk Between Public Health Accreditation and Health Impact Assessment NACCHO recently released a new report highlighting the connection between public health accreditation and Health Impact Assessment (HIA). This document describes ...
essentialelements.naccho.org/archives/3988
3. [Public Health Accreditation Board](#) (PHPartners)
... s health and prevent disease in humans. >> The Public Health Accreditation Board is a nonprofit organization dedicated to improving ...
www.phaboard.org

Figure 3: Refine by Application sidebar.

For example, clicking on the link to PHPartners displays the 78 items identified on that site. You can then search further using the categories and fields specific to that resource (see Figure 4).

National Information Center on Health Services Research and Health Care Technology (NICHSR)

Home > Health Services Research & Public Health > NICHSR > NICHSR One Search > Search Results NICHSR Home | About Us | Contact Us

NICHSR ONESearch

[Search Help](#)

Results 1 - 10 of 78 for "public health accreditation"

refine by **Application**

- × **PHPartners** (78)
 - About Partners (2)
 - Bioterrorism (5)
 - Children's Environmental Health World Wide Web Resource Sampler (1)
 - Conferences and Meetings (4)
 - Dental Public Health (1)
 - Discussion and E-mail Lists (1)
 - Education and Training (9)
 - Environmental Health (2)
 - Finding People (1)
 - Grants and Funding (2)
 - [show more...](#)

Refinements: **Application:** [PHPartners](#) ×

1. [Crosswalk Between Public Health Accreditation and Health Impact Assessment](#) (PHPartners)
 ... Articles Forum Tools & Resources New Report: Crosswalk Between Public Health Accreditation and Health Impact Assessment NACCHO recently released a new report highlighting the connection between public health accreditation and Health Impact Assessment (HIA). This document describes ...
essentialelements.naccho.org/archives/3988
2. [Public Health Accreditation Board](#) (PHPartners)
 ... s health and prevent disease in humans. >> The Public Health Accreditation Board is a nonprofit organization dedicated to improving ...
www.phaboard.org
3. [The Community Guide - Public Health Accreditation Board Crosswalk](#) (PHPartners)
 ... included in The Community Guide. The Community Guide – Public Health Accreditation Board Crosswalk A Crosswalk between Recommendations from The ... Guide and Health Department Accreditation Standards of the Public Health Accreditation Board with Others Use our Sample News Story ...
www.thecommunityguide.org/uses/phimprovement.html

Figure 4: Refine by Application sidebar.

To return to your original NICHSR ONESearch results, click the "x" in the breadcrumbs above your search results or next to the name of the chosen application (see Figure 5).

National Information Center on Health Services Research and Health C

Home > Health Services Research & Public Health > NICHSR > NICHSR One Search > Search Results

NICHSR ONESearch

refine by **Application**

- × **PHPartners** (78)
 - About Partners (2)
 - Bioterrorism (5)
 - Children's Environmental Health World Wide Web Resource Sampler (1)
 - Conferences and

Refinements: **Application:** [PHPartners](#) ×

1. [Crosswalk Between Public Health Accreditation and Health Impact Assessment](#) (PHPartners)
 ... Articles Forum Tools & Resources New Report: Crosswalk Between Public Health Accreditation and Health Impact Assessment NACCHO recently released a new report highlighting the connection between public health accreditation and Health Impact Assessment (HIA). This document describes ...
essentialelements.naccho.org/archives/3988

Figure 5: Return to ONESearch results.

NICHSR ONESearch will return the same results as a similar search within each of the individual resources. Please note that only HSRProj utilizes MeSH indexing within its records. The ONLY way to search HSRProj using MeSH is to go directly to HSRProj. The unified resource is intended to complement HSR and public health literature in PubMed and the journals in the NLM Catalog by providing access to curated grey literature.

Searching Help

See the Search Tips for NICHSR ONESearch FAQ for additional information.

Comments?

We welcome your feedback. Please send your comments and questions to: NLM Customer Service with "NICHSR ONESearch" in the subject field.

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Health Services Research Projects in Progress Database Available for Download

Gallagher, P. and Lang, L. Health Services Research Projects in Progress Database Available for Download. NLM Tech Bull. 2016 Nov-Dec;(413):e8.

2016 December 22 [posted]

NLM is pleased to announce that the Health Services Research Projects in Progress (HSRProj) database is available for download.

Background

HSRProj is produced by the National Information Center on Health Services Research and Health Care Technology (NICHSR) and provides access to data for research into health services research investments. Established in the 1990s, HSRProj contains searchable structured descriptions of more than 16,000 current or recently completed health services research projects from more than 350 funders, both international and domestic. While access to the entire dataset of more 30,000 records has always been available on a partial or ad hoc basis, this new XML file download is expected to greatly broaden the accessibility of the information for those interested in health services research trends by topic, funder, or researcher/research organization.

Documentation

Documentation for researchers seeking to manipulate and download the full file from the FTP site is available at: https://www.nlm.nih.gov/nichsr/hsrproj_xml.html. A complete list of all the elements and their attributes is available and includes a sample record using the NLM DTD, as well as a description of each field and its attributes. The XML data can be used with the XML converter of your choice.

File Downloads

An updated file will be created and posted to the FTP site on a quarterly basis in conjunction with the regular quarterly update of the HSRProj record set. The current file is October 2016. We anticipate retaining older files on the FTP site for at least one year, but would welcome community input on this question. File names will include the month and date of release.

Terms and Conditions

No license is required to obtain or use the data. Per the Terms and Conditions, the National Library of Medicine should be identified as the creator, maintainer and provider of the data, for any use that is not personal; other conditions also apply.

Feedback

We welcome your feedback. Please send your comments and questions, as well as descriptions of how you have used the data to: NLM Customer Service with "HSRProj Download" in the subject field.

By Patricia Gallagher and Lisa Lang
National Information Center on Health Services Research and Health Care Technology

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List of Serials Indexed for Online Users, 2017 Available in XML

Baldinger E. List of Serials Indexed for Online Users, 2017 Available in XML. NLM Tech Bull. 2016 Nov-Dec;(413):e7.

2016 December 15 [posted]

The *List of Serials Indexed for Online Users* (LSIOU), 2017 edition, is now available in XML format. The 2017 edition contains 15,017 serial titles, including 5,636 titles currently indexed for MEDLINE as well as titles indexed over time that have ceased or changed titles. The titles are listed alphabetically by the journal title abbreviation.

Changes to NLM Serials DTD

There are several changes to the 2017 Serials DTD to introduce new elements or attributes for internal processing at NLM. The changes are itemized in the Revisions Notes Section near the top of the DTD.

MEDLINE Journal List Searching Tips

1. Tailored lists of indexed journals may be generated from the NLM Catalog. While the XML version of the LSIOU is a snapshot in time, the results of a search in the NLM Catalog provide a "real time" list for the LSIOU.
 - For a "real time" list for the LSIOU enter **reportedmedline** in the search box and click "Search".
 - For a list of only the currently indexed MEDLINE journals enter **currentlyindexed** in the search box and click "Search."
2. Display and sort formats are selected from the results page:
 - From the Summary pull-down choose a display format (for example, the Full display).
 - From the 20 per page pull-down choose the number of records per page (for example, 50 or 200).
 - From Sort by Title pull-down choose an appropriate sort (for example, Title or Title Abbreviation).
3. To save the entire list as one document:
 - On the "Send to" pull-down, choose "File" as the destination, choose a format and sort order, and then click "Create File." Click "Save" in the File Download pop-up box. Provide your directory location and desired file name.

Additional information about journals indexed for MEDLINE can be found via the links from the MEDLINE/PubMed Resources Web page. This page includes a link to Journals Recently Accepted by NLM for Inclusion in MEDLINE, a list of titles selected by the Literature Selection Technical Review Committee (LSTRC) that meets three times per year in February, June, and October. Results from those meetings appear online about six weeks after each meeting, both on the Web page and in the NLM Catalog.

For additional details about searching the NLM Catalog, see NLM Catalog Quick Tours and Searching for Journals in the NLM Catalog.

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What's New for 2017 MeSH

Schulman J. What's New for 2017 MeSH. NLM Tech Bull. 2016 Sep-Oct;(412):e6.

2016 December 09 [posted]

MeSH is the National Library of Medicine (NLM) 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 2017 MeSH

- 627 Descriptors added
- 35 Descriptors replaced with more up-to-date terminology
- 42 Descriptors deleted
- 3 Qualifiers deleted
- 1 Qualifier added

Totals by Type of Terminology

- 28,472 Descriptors
- 80 Qualifiers
- 115,845 Total Descriptor Terms

MeSH Vocabulary Development

MeSH Protein Project

New protein classes have been added to MeSH as part of an ongoing project to update and align MeSH protein classes with the gene families described by the Human Genome Nomenclature Committee (HGNC). A second part of the project involves creating organism-specific protein Supplemental Concept Records (SCRs) for model organism species. The process for creating descriptors included the promotion SCRs to descriptors and creating new organism-specific protein SCRs that use the new descriptors as their Heading Mapped-To values. In addition Year-end processing tasks were used to populate existing citations with the new organism-specific protein SCRs.

- MEDLINE/PubMed Year-End Processing Activities for 2017
- 2017 MeSH Headings Available in the MeSH Browser
- MEDLINE Data Changes — 2017
- Cataloging and Metadata News 2017

What's New for 2017 MeSH • Newly Maintained MEDLINE for 2017 MeSH Now Available in PubMed

Protein Editing Work	
Number of SCRs Promoted to Descriptors	70
Number of New Descriptor Protein classes	219
Number of New Protein SCRs created	339
Number of Year Processing tasks	281

2017 G tree changes

G tree "Processes" descriptors were merged with the "Phenomena" descriptors as narrower sub-concepts, except for those that did not have a corresponding "Phenomena" descriptor to merge into. For example, the descriptor Biochemical Processes was merged with Biochemical Phenomena. And all the child descriptors of Processes became the children of Phenomena. This was done to simplify the trees and to discontinue distinguishing what is a process and what is a phenomena but with the understanding that processes are a type of or part of phenomena.

Dietary Supplements

MeSH added all valid terms and concepts, not already in MeSH, from the PubMed Dietary Supplement literature subset search strategy developed jointly by NLM and the Office of Dietary Supplements at the National Institutes of Health.

New J Tree

New tree top J03 (Non-Medical Public and Private Facilities) was created in the MeSH vocabulary and populated with current descriptors from other trees and several new categories of public facilities

New MeSH Browser

In cooperation with the NLM Office of Computer and Communications Systems (OCCS), Library Operations staff refined the design and tested the beta version of the New MeSH Browser which was released to the public on September 14, 2016. This new browser replaced the original MeSH Browser on November 16, 2016.

MeSH Qualifier Changes

Three qualifiers radiography, radionuclide imaging, and ultrasonography were replaced by a new qualifier diagnostic imaging.

Chemical Editing Project to Update UNII and EC Numbers

We have an ongoing project to update MeSH chemicals with UNII (Unique Ingredient Identifier) numbers from the FDA SRS system. Additions and changes were made to UNII in over 1,500 of the top posting Supplementary Concept Records. This brings the total number of UNII in MeSH to 14,853.

Another project reviewed and updated Enzyme Commission (EC) numbers for enzymes in MeSH. When the Commission changes a number, we follow their recommendation and do the same in MeSH. There were 1,200 such changes in 2017 MeSH.

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MeSH Section

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Cataloging and Metadata News 2017

Boehr D, Willis S. Cataloging and Metadata News 2017. NLM Tech Bull. 2016 Nov-Dec;(413):e5.

2016 December 01 [posted]

NLM Classification Updated in Two Phases

Starting with 2017, the *NLM Classification* will be moving from an annual spring update to twice-yearly updates.

The winter version, to be published in mid-to-late January, will encompass changes to the *NLM Classification* resulting from new and changed Medical Subject Headings (MeSH) terms for 2017 as well as additional minor updates to the index.

The summer version to be published in mid-to-late August will encompass the ongoing systematic review of particular classification schedules and other miscellaneous updates.

The *Index to the NLM Classification* will reflect 2017 MeSH changes when the 2017 Winter version of the *NLM Classification* is published in January 2017. This update will be available four months earlier than in the past.

NLM Classification Number in MeSH Browser

The *NLM Classification* number now appears in many terms in the MeSH Browser. It is supplied annually by the Cataloging and Metadata Management Section when the MeSH term points to a single classification number (see Figure 1).

- MEDLINE/PubMed Year-End Processing Activities for 2017
- 2017 MeSH Headings Available in the MeSH Browser
- MEDLINE Data Changes — 2017
Cataloging and Metadata News 2017
- What's New for 2017 MeSH
- Newly Maintained MEDLINE for 2017 MeSH Now Available in PubMed

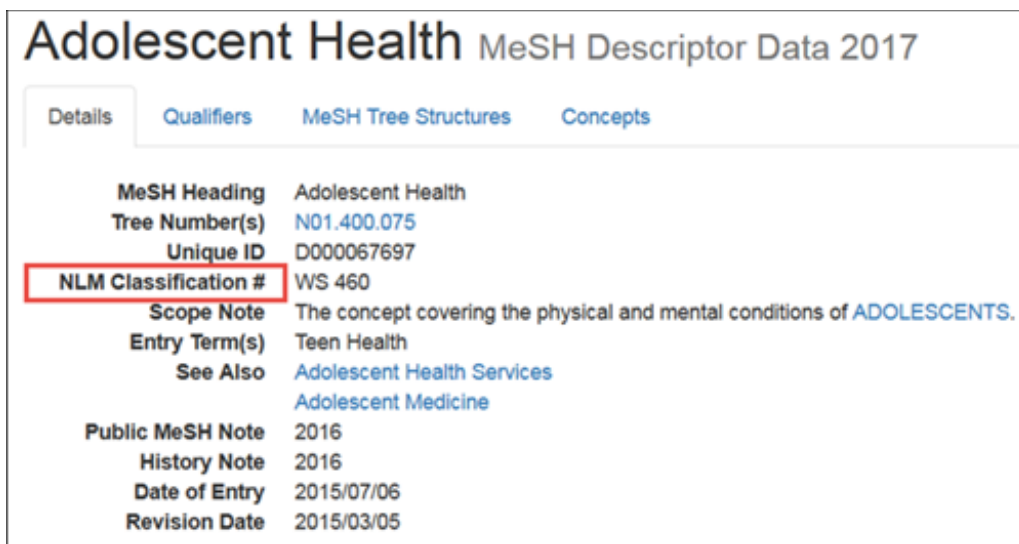


Figure 1: Classification number in MeSH Browser.

MeSH 2017 — Implications for LocatorPlus and the NLM Catalog

The National Library of Medicine (NLM) adopted the 2017 MeSH vocabulary for cataloging on November 21, 2016.

Accordingly, MeSH subject headings in LocatorPlus were changed to reflect the 2017 MeSH vocabulary and appear in that form as of November 21, 2016.

When year-end processing (YEP) activities are completed in mid-December, the NLM Catalog database, and translation tables will be updated to reflect 2017 MeSH. Until then, there will be a hiatus in the addition of new and edited bibliographic records to the NLM Catalog.

MeSH 2017 Changes in NLM Bibliographic Records and Cataloging Policy

NLM 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:

1. Qualifier (Subheading) Changes

The subheading /diagnostic imaging was created for 2017 MeSH. It replaces the following three subheadings, all deleted in 2017:

/radiography
/radionuclide imaging
/ultrasonography

As part of the YEP automated processing, when one of these specific subheadings was replaced with /diagnostic imaging, a new main heading for the specific imaging technique was added to the record. Therefore, users may see some redundancies in older cataloging records if a child term or the Main Heading with a subheading was already present in the record.

Cataloging and Indexing Policy:

DIAGNOSTIC IMAGING [Main Heading] - Use only for general materials. No change in policy.

/diagnostic imaging [AQ/Subheading]

- Use with disease and/or organ headings
- Coordinate with the specific diagnostic imaging MeSH Heading if available [see terms treed under MH Diagnostic Imaging]
- Coordinate with the new specific Multimodal Imaging headings if available [see terms treed under MH Multimodal Imaging]
- Use for disease or organ headings previously cataloged with the subheadings /radiography /radionuclide imaging /ultrasonography. Coordinate with the MeSH Heading: RADIOGRAPHY (or specific), RADIONUCLIDE IMAGING (or specific), ULTRASONOGRAPHY (or specific)
- Do not coordinate with the MeSH Heading DIAGNOSTIC IMAGING

2. Persons

Forty-one person terms were added to Category M. Assign the MeSH term for the appropriate class of persons when applicable.

3. Publication Types (PTs) and Related Terms

Two new Publication Types were created:

- Calendars (has corresponding as Topic term)
- Study Guide (has corresponding as Topic term)

2017 MeSH Descriptors Not Used by Catalogers

1. Non-Medical Public and Private Facilities

A new tree (J03) was created for *Non-Medical Public and Private Facilities* to gather together non-medical facilities. This is a place holder term that cannot be used by catalogers. Catalogers should use the specific MeSH treed below this term. Catalogers may use the specific terms *Public Facilities* or *Private Facilities*.

2. National Authority File Terms - Catalogers should use the appropriate term from the National Authority File (NAF) rather than the MeSH term. Each term has Annotation: CATALOGER: Use NAF entry. Three new terms were created and one was modified. For each of the terms below, catalogers should search the National Authority File for the correct form of the term to be used in the MARC 610 field and coordinate with the MARC 650 field as shown.

Medicare Access and CHIP Reauthorization Act of 2015
Coordinate with MARC 650 X2 Medicare.

National Center for Advancing Translational Sciences (U.S.)
Coordinate with MARC 650 X2 United States Government Agencies.

National Center for Complementary and Integrative Health (U.S.)

Coordinate with MARC 650 X2 United States Government Agencies.

National Academies of Science, Engineering, and Medicine (U.S.) Health and Medicine Division

The heading was changed from Institute of Medicine (U.S.) and is now an entry term. Coordinate with 650 MARC X2 Academies and Institutes.

For additional information about 2017 MeSH, see *MEDLINE Data Changes — 2017* and the forthcoming article, *What's New for 2017 MeSH*.

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MEDLINE Data Changes — 2017

Tybaert S. MEDLINE Data Changes — 2017. NLM Tech Bull. 2016 Nov-Dec;(413):e4a.

2016 December 01 [posted]

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 2017:

- MeSH Vocabulary Updated for 2017
- Updated MeSH in MEDLINE Citations
- Changes to MeSH Headings
- New MeSH Headings and Concepts
- MeSH Publication Types
- MeSH Qualifier (Subheading) Changes
- MeSH Tree Changes
- Do not confuse
- One MeSH Concept Split into Two
- Multiple MeSH Concepts Combined into One
- Entry Combination Revisions
- New MeSH Browser
- PMDM/IMS and Exports
- Data Distribution Notes
- Journal Title Update
- Policy Updates and PubMed Notes
- MEDLINE Celebrates Its 45th Anniversary!

- MEDLINE/PubMed Year-End Processing Activities for 2017

- 2017 MeSH Headings Available in the MeSH Browser

MEDLINE Data Changes — 2017

- Cataloging and Metadata News 2017

- What's New for 2017 MeSH

- Newly Maintained MEDLINE for 2017 MeSH Now Available in PubMed

MeSH Vocabulary Updated for 2017

The MeSH Browser currently points to the 2017 MeSH vocabulary with a link to the 2016 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 Indexing, and other information. It also includes Subheading records and Supplementary Concept Records (SCRs) for substances and diseases that are not MeSH headings.

You can download 2017 MeSH from links on the MeSH homepage:

- Under the section "What's New," click on 2017 MeSH files or
- Under the section "Obtaining MeSH," click on Download electronic copies of MeSH

The MeSH Tree Structures are available online under the Changes to 2017 MeSH Hierarchy section on the download page.

For highlights about 2017 MeSH, see *What's New for 2017 MeSH*.

The PubMed MeSH database and translation tables will be updated to reflect 2017 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 are anticipated to be in PubMed in mid-December 2016. See "Modifying a Saved Search Strategy" for details on revising My NCBI saved searches.

Changes to MeSH Headings

This year 77 MeSH headings were either changed or deleted and replaced with more up-to-date terminology. During YEP, NLM updates MeSH headings on MEDLINE citations.

New MeSH Headings and Concepts

629 new MeSH headings, including two new Publication Types, were added to MeSH in 2017.

All of the new 2017 concepts are available in PDF format, New Headings with Scope Notes, Annotations and Tree Locations.

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 of particular interest to searchers:

Brain Injuries, Traumatic: Promoted to a MeSH heading. Previously an Entry Term to Brain Injuries. Note that Mild Traumatic Brain Injury was added as an Entry Term to Brain Concussion. Both MeSH headings are children to Brain Injuries.

SCR Protein Terms: A number of protein terms were promoted to MeSH terms in 2017. An example is the 2016 SCR record for lumican. For 2017 lumican was promoted to a MeSH heading. At the same time, three new SCR records were created for the specific species and all three new SCRs were mapped to the new MeSH heading Lumican:

- LUM protein, human
- Lum protein, mouse
- Lum protein, rat

Molecular Sequence Data: The indexing policy has changed. Between 1988-2016 this term was indexed for articles that contained:

- Accession numbers for sequences deposited in a molecular sequence databank, such as Genbank
- Articles with base sequences of 50 or more bases
- Articles with Amino acid sequences of 15 or more amino acids
- Carbohydrate sequences of 3 or more carbohydrate units

Starting with 2017 MeSH indexing, Molecular Sequence Data will only be indexed for general articles about sequence data.

Postoperative Complications: The indexing policy has changed. This term will be added unstarred to prospective citations that are indexed with any Surgical Procedures, Operative/adverse effects heading as an aid to searchers. The policy change was not applied retrospectively to existing indexed citations.

Disease headings: The indexing policy was clarified to coordinate with either Humans or Animals, as appropriate to the article. If not specified in the article, then indexers will add Humans, based on a review of existing citations that guided this recommendation.

Animal Diseases: A MeSH Scope Note was added: Diseases that occur in VERTEBRATE animals. By indexing policy, this heading:

is used for:

- general articles on veterinary diseases
- diseases in specific animals when there is no precoordinated term, such as:
Animal Diseases
Elephants

is not applied when:

- disease term/veterinary is assigned.
- the article is about experimental studies of disease in animals

Multimodal Imaging: Note the new specific terms for 2017:

- Computed Tomography Angiography
- Positron Emission Tomography Computed Tomography
- Single Photon Emission Computed Tomography Computed Tomography

Adult Stem Cells: This term has a new MeSH Scope Note. Some Entry Terms were removed. Selected related headings are:

- Adult Germline Stem Cells, restricted to males. The MeSH Scope Note: Progenitor stem cells found in the testicles.
- Oogonial Stem Cells, restricted to females. The MeSH Scope Note: Primordial germ cells found in embryonic OOGONIA and postnatal OVARIES.

Peripheral Blood Stem Cells: The MeSH Scope Note: Hematopoietic stem cells found in peripheral blood circulation. Note that Peripheral Stem Cells is an Entry Term to Peripheral Blood Stem Cells.

Immunogenicity, Vaccine and Vaccine Potency: The emphasis of Vaccine Potency is on the dose. Sometimes both headings may be used to cover the general and specific concepts.

Immunotherapy: Indexing policy on when to use /drug therapy or /therapy on the disease term:

- if a named drug, then use /drug therapy
- if the immunologic factor is not named, then use /therapy
- for therapeutic use of vaccines, use /therapy
- for genetic therapy, use /therapy plus /genetics on the protein expressed to treat the disease

Persons and Professions: Forty-one new headings were added to the M Tree.

Network Meta-Analysis: Indexing policy is to coordinate with Meta-Analysis [Publication Type] if pertinent.

Protein Domains: Many new headings were added to the G2 Tree.

MeSH Publication Types

Two new Publication Types, Calendars and Study Guide, are available for catalogers but will **not** be used by MEDLINE indexers.

MeSH Qualifier (Subheading) Changes

In order to improve indexing consistency and efficiency and to make MEDLINE searching easier and more straightforward, a new subheading, diagnostic imaging, was added.

- New subheading: /diagnostic imaging

Three existing subheadings were deleted and replaced by the new subheading, /diagnostic imaging.

- Deleted subheadings: /radiography, /radionuclide imaging, and /ultrasonography.

Additional reasons for these changes are:

- /diagnostic imaging is a broader subheading that covers many other existing diagnostic imaging techniques other than just radiography, radionuclide imaging, and ultrasonography
- /diagnostic imaging can be used in coordination with specific multimodal imaging techniques MeSH headings (such as Positron Emission Tomography Computed Tomography) that are becoming increasingly important. This will add specificity to indexing and searching.

Indexing policy for the new subheading /diagnostic imaging is:

- Use for the Disease and/or Organ MeSH headings.
- Coordinate with the specific diagnostic technique.
- Do not coordinate with the MeSH heading Diagnostic Imaging; this heading is reserved for general articles only.

Examples:

1. *Multimodal imaging in detection of pancreatic cancer.*

2016 Indexing	2017 Indexing
PANCREATIC NEOPLASMS / *diagnosis	PANCREATIC NEOPLASMS / *diagnostic imaging
MULTIMODAL IMAGING	MULTIMODAL IMAGING

2. *Automatic 3D motion estimation of left ventricle from C-arm rotational angiocardiology using a prior motion model and learning based boundary detector.*

2016 Indexing	2017 Indexing
VENTRICULAR DYSFUNCTION, LEFT / *radiography	VENTRICULAR DYSFUNCTION, LEFT / *diagnostic imaging
HEART VENTRICLES / *radiography	HEART VENTRICLES / *diagnostic imaging
ANGIOCARDIOGRAPHY / *methods	ANGIOCARDIOGRAPHY / *methods
IMAGING, THREE-DIMENSIONAL	IMAGING, THREE-DIMENSIONAL

3. *PET imaging of prostate cancer.*

2016 Indexing	2017 Indexing
PROSTATIC NEOPLASMS / *radionuclide imaging	PROSTATIC NEOPLASMS / *diagnostic imaging
POSITRON-EMISSION TOMOGRAPHY	POSITRON-EMISSION TOMOGRAPHY

4. *Color Doppler sonography for evaluation of portal venous system in hepatocellular carcinoma.*

2016 Indexing	2017 Indexing
CARCINOMA, HEPATOCELLULAR / *ultrasonography	CARCINOMA, HEPATOCELLULAR / *diagnostic imaging
LIVER NEOPLASMS / *ultrasonography	LIVER NEOPLASMS / *diagnostic imaging
PORTAL VEIN / *ultrasonography	PORTAL VEIN / *diagnostic imaging
ULTRASONOGRAPHY, DOPPLER, COLOR	ULTRASONOGRAPHY, DOPPLER, COLOR

5. *Quality of reporting noninferiority/similarity in research studies of diagnostic imaging.*

Indexing: No Change
BIOMEDICAL RESEARCH
DIAGNOSTIC IMAGING / *standards

MeSH Tree Changes

See MeSH Tree Changes for 2017 for a complete list of the MeSH heading tree hierarchy changes in PDF format.

Changes of particular interest include:

Non-Medical Public and Private Facilities [J03]: This new tree was introduced for 2017 MeSH and gathers about 40 MeSH headings in one spot. Most of these headings remain in their original tree locations as well. Note that there are no children for Private Facilities or Public Facilities. Indexing policy is to coordinate with these headings only when the specific type of facility is discussed. Indexers will not try to determine if a facility is private or public.

Examples:

1. *Board diving regulations in public swimming pools and risk of injury.*
*SWIMMING POOLS
PUBLIC FACILITIES
DIVING / *injuries
RISK
2. *Prevention of respiratory tract infections: Situation in 12 private day care centers in the city of Buenos Aires.*
RESPIRATORY TRACT INFECTIONS / *prevention & control
*CHILD DAY CARE CENTERS
PRIVATE FACILITIES
ARGENTINA
*CITIES

Phenomena and Processes [G]: This tree was reorganized.

For 2016 MeSH:

- Process terms were treed under the corresponding Phenomena terms.
- Specifics were treed either directly under the Phenomena term or under the Process term.

For 2017 MeSH:

- Process terms became Entry Terms to the corresponding Phenomena terms.
- Terms that were treed under the Process terms are now treed directly under the Phenomena terms.
- Note: Metabolism has been retained as the preferred term for Metabolic Phenomena.

Subheading Tree Modifications for 2017

The /diagnosis tree was modified (see Figure 1).

- Removed the deleted subheadings: /radiography, /radionuclide imaging, and /ultrasonography.
- Added the new subheading /diagnostic imaging.
- Removed /pathology from under diagnosis.

2016 /diagnosis Subheading Tree	2017 /diagnosis Subheading Tree
/diagnosis /pathology /radiography /radionuclide imaging /ultrasonography	/diagnosis /diagnostic imaging

Figure 1: The subheading tree modifications for /diagnosis.

- /pathology is now only treed under /anatomy & histology as a sibling to /cytology (see Figure 2).
- Note: Previously, /pathology was often indexed with a Disease MeSH headings (rather than /diagnosis) when microscopy techniques were used as diagnostic tools. For 2017 forward, /pathology is reserved for indexing the histological description of the organ/tissue in disease.

2016 /anatomy & histology Subheading Tree	2017 /anatomy & histology Subheading Tree
/anatomy & histology	/anatomy & histology
/blood supply	/blood supply
/cytology	/cytology
/pathology	/ultrastructure
/ultrastructure	/embryology
/embryology	/abnormalities
/abnormalities	/innervation
/innervation	/pathology

Figure 2: The subheading tree modification for /pathology in the anatomy & histology tree.

Do not confuse:

- Chocolate and Cacao. Chocolate was promoted to a MeSH Heading. Previously it was an Entry Term to Cacao.

Other Changes:

In addition to changes and deletions of MeSH terms on MEDLINE citations, YEP includes other adjustments to reflect 2017 MeSH vocabulary and enhance search retrieval. These follow-on adjustments are largely to add additional MeSH headings or Supplementary Concept Record Names to citations in order to help searchers refine retrieval. In some cases, the changes clarify areas where a single concept existed before, but is now represented by two or more specific concepts.

One MeSH Concept Split into Two

Examples for 2017 MeSH include the following:

- Gizzard was replaced by Gizzard, Avian while a new term Gizzard, Non-avian was introduced. Because the ambiguous old term Gizzard was split into two concepts, the citations were adjusted accordingly.
- Obsessive Hoarding was replaced by Hoarding. The concept of Obsessive Hoarding was transferred as an Entry

Term to the existing MeSH heading Hoarding Disorder. The citations about obsessive hoarding were adjusted to add Hoarding Disorder rather than Hoarding.

Multiple MeSH Concepts Combined into One

Examples for 2017 MeSH include the following:

When one of these deleted subheadings was replaced with /diagnostic imaging, a MeSH heading for the specific diagnostic technique was added to the citations, if the specific technique or one of its children was not already on the citation:

- Added Radiography when /radiography was replaced by /diagnostic imaging.
- Added Radionuclide Imaging for previous /radionuclide imaging was replaced by /diagnostic imaging.
- Added Ultrasonography for previous /ultrasonography was replaced by /diagnostic imaging.

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 2017 MeSH Browser to see if the Entry Combination information indicates a different term.

There are 12 new Entry Combinations for 2017.

Previous MeSH Heading/Subheading (Entry Combination)	Replaced-by Heading for 2017
Anterior Cruciate Ligament/injuries	Anterior Cruciate Ligament Injuries
Cardiovascular Diseases/rehabilitation	Cardiac Rehabilitation
Fascia/surgery	Fasciotomy
Growth Plate/injuries	Salter-Harris Fractures
In Vivo Dosimetry/instrumentation	Radiation Dosimeters
Menisci, Tibial/injuries	Tibial Meniscus Injuries
Myocardium/diagnostic imaging	Heart/diagnostic imaging
Peripheral Blood Stem Cells/transplantation	Peripheral Blood Stem Cell Transplantation
Rotator Cuff/injuries	Rotator Cuff Injuries
School Teachers/education	Teacher Training
Shoulder/injuries	Shoulder Injuries
Stroke/rehabilitation	Stroke Rehabilitation

Other News:

New MeSH Browser

The new MeSH Browser was launched on November 16, 2016. For more information see *New MeSH Browser Available*.

PMDM/IMS and Exports

In October 2016, NLM transitioned from one Data Creation and Maintenance System (DCMS) to two separate systems, the PubMed Data Management System (PMDM) and the Indexing Management System (IMS). This change will separate citation creation and bibliographic data maintenance (PMDM) from assigning MeSH indexing vocabulary (IMS). The new systems facilitate improvements to citation and indexing workflows. To read more about the new model for managing journal citation data in PubMed see *MEDLINE/PubMed Production Improvements Underway*.

Data Distribution Notes

In October 2016, NLM launched newly redesigned Data Distribution Program Web pages. For an explanation for the changes to the Web pages see *Changes to the NLM Data Distribution Program*. In conjunction with these changes NLM discontinued the license requirement for obtaining MEDLINE/PubMed citations and switched to a "Terms and Conditions" agreement.

The FTP data file exports are now in a new location as explained on the revised Web pages.

NLM is implementing a new consolidated DTD (Document Type Definition) for users of the FTP server and the E-utilities API. More information will be available in a forthcoming article.

Journal Title Update

The algorithm that creates the journal title name in the NLM Catalog was revised to omit the statement of responsibility (data in the 245 \$c) from the journal title name. Data in the MARC 245 \$a, \$b, \$n and \$p is still included in the journal title name.

For example (see Figure 3):

Journal title <i>before</i> algorithm change	Journal title <i>after</i> algorithm change
European journal of endocrinology / European Federation of Endocrine Societies	European journal of endocrinology
Proceedings, Biological sciences / The Royal Society	Proceedings, Biological sciences

Figure 3: Updated journal title name in the NLM Catalog.

This change impacted approximately 540,000 citations in approximately 9,000 PubMed titles.

Policy Changes and PubMed Notes

1. Partial Retractions Policy Change

In September 2016, NLM announced a policy change for citing Partial Retractions. For more information see *Partial Retractions: NLM Policy Change*.

2. New Expression of Concern Policy

For 2017 NLM will implement a new pair of linking elements to tag notices that express concern about an article. These elements are under the Comments/Corrections suite:

ExpressionOfConcernFor
ExpressionOfConcernIn

The corresponding tags using 3 letters for the MEDLINE display are:

ECF - appears on the citation for the Expression of Concern
ECI - appears on the citation for the original article

3. Conflict of Interest (COI) Statement

NLM is adding a conflict of interest statement as provided by the publisher. Sometime in 2017, journal citations will contain conflict of interest statements for the article as submitted by the publisher.

The corresponding tag for the MEDLINE display is COI.

4. Authors Who Contribute Equally

In 2017 NLM will implement a method for publishers to indicate when authors "contributed equally" to a journal article. We do not have a target date yet for when publishers will be able to begin submitting these data.

The corresponding tag using 2 letters in the MEDLINE display will be CE.

The contributed equally designation will also appear in the Summary (text) display and the Abstract display.

MEDLINE Celebrates Its 45th Anniversary!

Please see *MEDLINE Celebrates Its 45th Anniversary* for fun highlights of the changes in the world since MEDLINE launched in 1971.

By Sara Tybaert
MEDLARS Management Section

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Changed and Deleted MeSH Headings — 2017

MeSH Replaced Headings — 2017. NLM Tech Bull. 2016 Nov-Dec;(413):e4b.

2016 December 01 [posted]

Return to *MEDLINE Data Changes—2017* article.

The Replaced-by Term replaces the heading in NLM databases and links to the full record in the MeSH Browser.

2017 Changed MeSH Headings

For the following 35 MeSH headings the preferred term was replaced by another term in the record.

Replaced Term	Replaced-by Term
Anoxia	Hypoxia
B-Cell-Specific Activator Protein	PAX5 Transcription Factor
Bicyclo Compounds	Bridged Bicyclo Compounds
Bicyclo Compounds, Heterocyclic	Bridged Bicyclo Compounds, Heterocyclic
Blueberry Plant	Blueberry Plants
Body, Physical Appearance	Physical Appearance, Body
Bridged Compounds	Bridged-Ring Compounds
Camels	Camelus
Chitinase	Chitinases
Consumer Participation	Community Participation
Dislocations	Joint Dislocations
Drug-Induced Liver Injury	Chemical and Drug Induced Liver Injury
G0 Phase	Resting Phase, Cell Cycle
Gizzard	Gizzard, Avian
Great Britain	United Kingdom
Guanylate Kinase	Guanylate Kinases
Heterocyclic Compounds with 4 or More Rings	Heterocyclic Compounds, 4 or More Rings
Institute of Medicine (U.S.)	National Academies of Science, Engineering, and Medicine (U.S.) Health and Medicine Division
Lecithin Acyltransferase Deficiency	Lecithin Cholesterol Acyltransferase Deficiency
Microfilaria	Microfilariae
Mild Cognitive Impairment	Cognitive Dysfunction
Obsessive Hoarding	Hoarding

Odors	Odorants
Organic Anion Transport Polypeptide C	Solute Carrier Organic Anion Transporter Family Member 1b1
Pharmacists' Aides	Pharmacy Technicians
Pneumocytes	Alveolar Epithelial Cells
Polycyclic Hydrocarbons, Aromatic	Polycyclic Aromatic Hydrocarbons
Prostitution	Sex Work
Psilocybine	Psilocybin
Renal Osteodystrophy	Chronic Kidney Disease-Mineral and Bone Disorder
RNA Recognition Motif (RRM) Proteins	RNA Recognition Motif Proteins
Smilacina	Maianthemum
Tooth Movement	Tooth Movement Techniques
Twist Transcription Factor	Twist-Related Protein 1
Urginea	Drimia

2017 Deleted MeSH Headings

The following 42 MeSH headings were deleted in 2017 MeSH.

Replaced Term	Replaced-by Term
Agavaceae	Asparagaceae
Astronomical Processes	Astronomical Phenomena
Bacterial Processes	Bacterial Physiological Phenomena
Biochemical Processes	Biochemical Phenomena
Biological Processes	Biological Phenomena
Biophysical Processes	Biophysical Phenomena
Blood Physiological Processes	Blood Physiological Phenomena
Cardiovascular Physiological Processes	Cardiovascular Physiological Phenomena
Cell Physiological Processes	Cell Physiological Phenomena
Chemical Processes	Chemical Phenomena
Dental Physiological Processes	Dental Physiological Phenomena
Digestive System Processes	Digestive System Physiological Phenomena
Ecological and Environmental Processes	Ecological and Environmental Phenomena
Electrophysiological Processes	Electrophysiological Phenomena
Food Habits	Feeding Behavior
Functional Behavior, Psychology	Behavior
Genetic Processes	Genetic Phenomena
Geological Processes	Geological Phenomena
Immune System Processes	Immune System Phenomena
Immunogenetic Processes	Immunogenetic Phenomena
Lotus	Loteae
Mechanical Processes	Mechanical Phenomena
Metabolic Phenomena	Metabolism

Microbiological Processes	Microbiological Phenomena
Musculoskeletal Physiological Processes	Musculoskeletal Physiological Phenomena
Nervous System Physiological Processes	Nervous System Physiological Phenomena
Nutrition Processes	Nutritional Physiological Phenomena
Ocular Physiological Processes	Ocular Physiological Phenomena
Optical Processes	Optical Phenomena
Organic Chemistry Processes	Organic Chemistry Phenomena
Physical Processes	Physical Phenomena
Physicochemical Phenomena	Chemical Phenomena
Physicochemical Processes	Chemical Phenomena
Physiological Processes	Physiological Phenomena
Plant Physiological Processes	Plant Physiological Phenomena
Pneumocystis jirovecii	Pneumocystis carinii
Reproductive Physiological Processes	Reproductive Physiological Phenomena
Respiratory Physiological Processes	Respiratory Physiological Phenomena
Skin Physiological Processes	Skin Physiological Phenomena
Tetrachlorodibenzodioxin	Polychlorinated Dibenzodioxins
Urinary Tract Physiological Processes	Urinary Tract Physiological Phenomena
Virus Physiological Processes	Virus Physiological Phenomena

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UMLS 2016AB Release Available

Wilder V. UMLS 2016AB Release Available. NLM Tech Bull. 2016 Nov-Dec;(413):e3.

2016 November 15 [posted]

The 2016AB release of the Unified Medical Language System (UMLS) Knowledge Sources is available for download as of November 8, 2016.

Metathesaurus

The 2016AB Metathesaurus contains approximately 3.44 million concepts and 13.7 million unique concept names from 199 source vocabularies.

Three new sources were added:

1. DRUGBANK (Drug & Drug Target Database)
2. DSM-5 (Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition)
3. NUCCPT (National Uniform Claim Committee - Health Care Provider Taxonomy)

One new NCI sub-source was added: NCI-GENC (Geopolitical Entities, Names, and Codes (GENC) Standard Edition 1)

Two sources were removed:

1. DSM3R - Diagnostic and Statistical Manual of Mental Disorders, Third Edition revised (DSM-III-R)
2. DSM4 - Diagnostic and Statistical Manual of Mental Disorders, Fourth Edition (DSM-IV)

One new content view was added: LOINC Universal Lab Orders Value Set

One content view was removed: LOINC Top 300+ Lab Orders

Fifty-five English sources and 30 translation sources were updated. These include MeSH, MedDRA, RxNorm, and SNOMED CT (English and Spanish). A complete list is available in the Updated Sources section of the Release Documentation. For more detailed information on changes in this version of the Metathesaurus, see the Updated Sources (Expanded) section. Additional release statistics may be found in the Statistics section.

MetamorphoSys

- The full release requires 26.1 GB of disk space.
- The active release requires 25.4 GB of disk space

New for 2016AB: The full and active release files are available as one-click downloads. Users only need to download one file for each release. After the release file is downloaded, users must unzip the file and then follow the usual step of unzipping the contents mmsys.zip to the main folder.

Reported bugs may be viewed on the Release Notes and Bugs Web page.

MetamorphoSys can generate custom load scripts for MySQL, Oracle, or Microsoft Access when creating a Metathesaurus subset or installing the Semantic Network. Instructions are available on the UMLS Load Scripts homepage.

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 UTS account. You will be prompted for your UTS username and password when downloading the files.

UMLS Learning Resources

2016AB Source Release Documentation Web pages will be published following the release.

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 UMLS Quick Start Guide, and other training materials.

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New MeSH Browser Available

Sorden N. New MeSH Browser Available. NLM Tech Bull. 2016 Nov-Dec;(413):e2.

2016 November 10 [posted]

The MeSH Browser is being totally redesigned and rebuilt (see *Beta Version of the MeSH Browser Available for Testing on September 14, 2016*).

The target date to implement the new MeSH Browser as the production version is November 16, 2016.

Here are some of the new and different features of the new MeSH Browser.

Site Navigation

The following options and controls are now listed along the top navigation bar on every page (see **A** in Figure 1).

- Search (formerly: "Return to Entry Page")
- Tree View (formerly: "Navigate from tree top")
- MeSH Suggestions (formerly: "MeSH vocabulary suggestions")
- MeSH on Demand (formerly found next to search options)
- MeSH 2016 or other alternate MeSH year (formerly: "Go to 2016 MeSH")
- Contact Us (formerly found at the very bottom of the page)

Search

The Search application (see **B** in Figure 1) gives a choice between two different search modes, FullWord or SubString search, using a drop down menu (see **C** in Figure 1). The FullWord search looks for complete words only, not strings that are part of a word, term, or sentence. SubString search is most similar to the current MeSH Browser and searches for a string of characters that are a complete term or are within a sentence or within another word.

Display of the search results can be modified in the new MeSH Browser. There is a choice of seeing the results sorted by "Relevance" or alphabetically by "Name" of the record that contains the Term found by the search (see **D** in Figure 1). Display of either 20 or 1000 results per page can also be selected (see **E** in Figure 1).

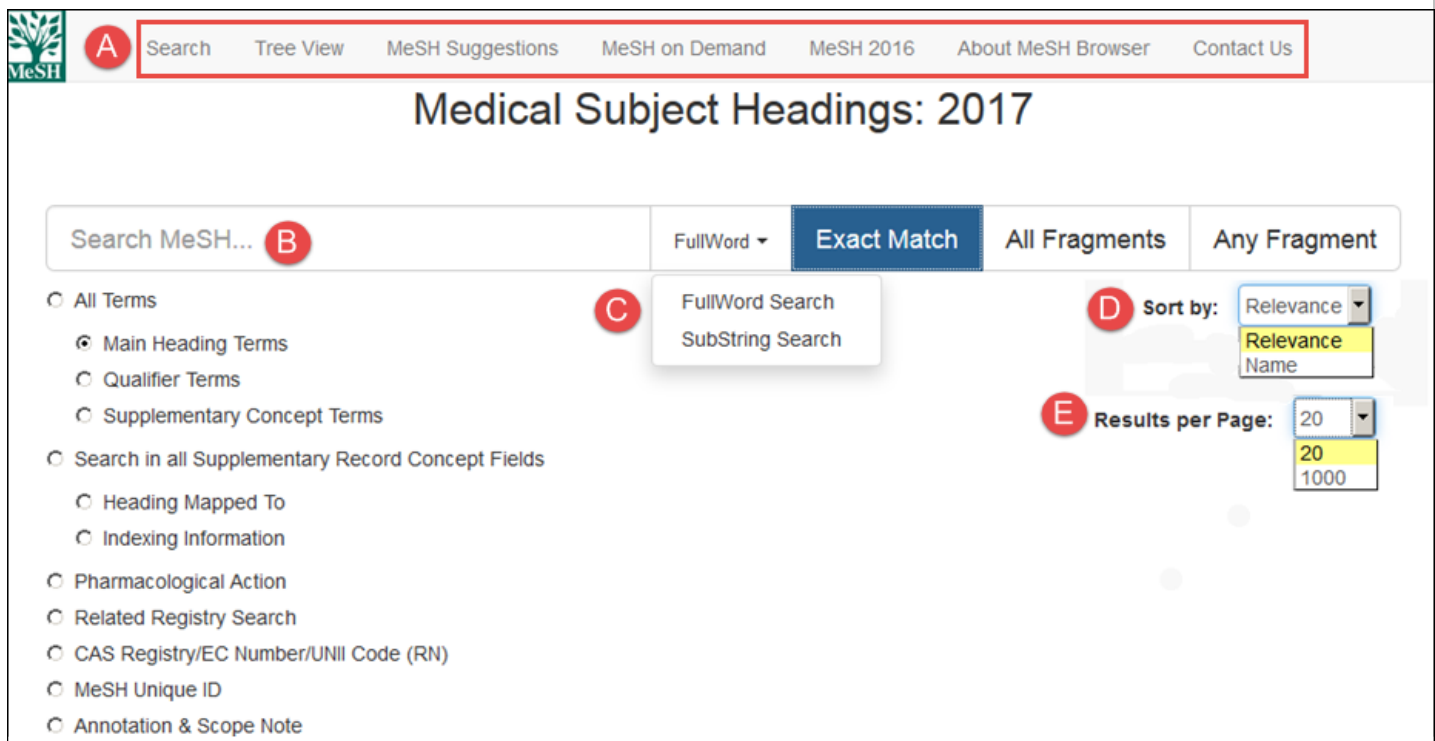


Figure 1: The new MeSH Browser homepage and navigation bar.

Display Tabs

The display of the records themselves has changed. There are now four separate tabs for viewing the record: Details, Qualifiers, MeSH Tree Structures, and Concepts (see Figure 2). Please note that the displays are subject to adjustment before the final version of the new MeSH Browser is in production.

See the following examples of the new tabbed record displays for the MeSH Main Heading (Descriptor) Adolescent Health.

Details Tab

The Details record view is the default.

From the Details view, there are two ways to access the MeSH Trees. Click directly on the MeSH Tree Structures tab (see **A** in Figure 2) or click on the Tree Number (see **B** in Figure 2) to go to its location in MeSH Tree Structures view.

Note that now the NLM Classification number is shown when a MeSH Main Heading (Descriptor) points to a single number in the NLM Classification (see **C** in Figure 2).

Adolescent Health MeSH Descriptor Data 2017

Details Qualifiers MeSH Tree Structures **A** Concepts

MeSH Heading	Adolescent Health
Tree Number(s)	N01.400.075 B
Unique ID	D000067697
NLM Classification #	WS 460 C
Scope Note	The concept covering the physical and mental conditions of ADOLESCENTS .
Entry Term(s)	Teen Health
See Also	Adolescent Health Services Adolescent Medicine
Public MeSH Note	2016
History Note	2016
Date of Entry	2015/07/06
Revision Date	2015/03/05

Figure 2: The Details view for the MeSH record.

MeSH Tree Structures Tab

In MeSH Tree Structures view, browse the MeSH Trees by clicking on the plus sign to expand the tree at a specific node (see Figure 3). The expanded nodes in the Tree view are displayed within the context of the entire hierarchy and all nodes above the expansion point are available for navigation on the screen.

Adolescent Health MeSH Descriptor Data 2017

Details Qualifiers **MeSH Tree Structures** Concepts

Population Characteristics [N01]

Health [N01.400]

Adolescent Health [N01.400.075]

Cardiorespiratory Fitness [N01.400.150]

Child Health [N01.400.225]

Family Health [N01.400.300]

Global Health [N01.400.337]

Holistic Health [N01.400.350]

Infant Health [N01.400.388]

Men's Health [N01.400.425]

Mental Health [N01.400.500]

Minority Health [N01.400.512]

Occupational Health [N01.400.525]

Oral Health [N01.400.535]

Physical Fitness [N01.400.545] 

Public Health [N01.400.550]

Reproductive Health [N01.400.625]

Rural Health [N01.400.650]

Social Determinants of Health [N01.400.675]

Suburban Health [N01.400.700]

Urban Health [N01.400.800]

Veterans Health [N01.400.850]

Women's Health [N01.400.900] 

Figure 3: The MeSH Tree Structures view for the MeSH record.

Note that the MeSH Trees are accessible also from the Tree View link (formerly: "Navigate from the tree top") that is found on the top navigation bar (see A in Figure 1). Browse the MeSH Trees by clicking on the plus sign to expand the tree at a specific node.

Qualifiers Tab

Qualifiers are displayed on their own tab (see Figure 4)

Adolescent Health MeSH Descriptor Data 2017

Details **Qualifiers** MeSH Tree Structures Concepts

Allowable Qualifiers

- classification (CL)
- economics (EC)
- ethics (ES)
- ethnology (EH)
- history (HI)
- legislation & jurisprudence (LJ)
- standards (ST)
- statistics & numerical data (SN)
- trends (TD)

Figure 4: The Qualifiers view for the MeSH record.

Concepts Tab

In the Concepts tab, the Concepts views can be expanded or collapsed by clicking on the "Expand All"/"Collapse All" button (see A in Figure 5), or by clicking on Concept terms (Preferred, Narrower, Broader or Related) (see B in Figure 5) or any of the entry Terms in each concept (see B and C in Figure 6).

Adolescent Health MeSH Descriptor Data 2017

[Details](#)
[Qualifiers](#)
[MeSH Tree Structures](#)
Concepts

Adolescent Health Preferred B

A
Expand All

Figure 5: The Concept view for the MeSH record.

In the expanded Concept view, the Concept Unique Identifiers (UIs) link to MeSH RDF data (see A in Figure 6).
 For more information on MeSH as Link Data, see MeSH RDF Linked Data (beta) service from NLM.

Adolescent Health MeSH Descriptor Data 2017

[Details](#)
[Qualifiers](#)
[MeSH Tree Structures](#)
Concepts

Adolescent Health Preferred
Collapse All

Concept UI	M000600677 A
Scope Note	The concept covering the physical and mental conditions of ADOLESCENTS .
Terms	Adolescent Health Preferred Term B
Term UI	T000872338
Date	12/17/2014
LexicalTag	NON
ThesaurusID	NLM (2016)
Teen Health C	
Term UI	T000873948
Date	01/21/2015
LexicalTag	NON
ThesaurusID	NLM (2016)

Figure 6: The expanded Concept view for the MeSH record.

NLM welcomes your feedback on the new MeSH Browser. Please send comments and questions to NLM Customer Service with "MeSH Browser" in the Subject field.

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2017 MeSH Headings Available in the MeSH Browser

2017 MeSH Headings Available in the MeSH Browser. NLM Tech Bull. 2016 Nov-Dec;(413):e1.

2016 November 01 [posted]

Introduction to MeSH 2017

The Introduction to MeSH 2017 is now available, including information on its use and structure, as well as recent updates and availability of data.

MeSH Browser

The default year in the MeSH Browser remains 2016 MeSH for now and the alternate link provides access to 2017 MeSH. Access to two years of MeSH vocabulary is always available in the MeSH Browser, the current year and an alternate year. Sometime in November or December, the default year will change to 2017 MeSH and the alternate link will provide access to the 2016 MeSH.

Download MeSH

Download 2017 MeSH in XML and ASCII formats. Also available for 2017 from the same MeSH download page are:

- Pharmacologic Actions (Forthcoming)
- New Headings with Scope Notes
- MeSH Replaced Headings (Fate of Deleted Descriptors)
- MeSH MN (tree number) changes
- 2017 MeSH in MARC format

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