keywords Authority control with MESH

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keywords Authority control for writing articles with MESH

Objectives

- To Introduce MESH & its Structure.
- To Introduce Applications of MESH.
- To Introduce MESH Vocabulary.
- To Introduce MESH Tools for finding Author Keywords.
- To Introduce Other MESH Tools Or Interfaces.

What is MeSH?

- an acronym for **Medical Subject Headings**.
- the U.S. National Library of Medicine's controlled vocabulary (thesaurus).
- a vocabulary that gives uniformity and consistency to the indexing and cataloging of biomedical literature.
- a distinctive feature of MEDLINE.
- arranged in a hierarchical manner called the MeSH Tree Structures.
- updated annually.

Why?

- In the proposals, Medical students are asked to choose three to five keywords from the MESH.
- In the Medical Thesis and related area, Medical students are asked to choose three to five keywords from the MESH.

Why else do we need to know the mesh?

- Most MEDICal journals require authors to select 4-8 keywords (or phrases) to accompany a manuscript:
  - To illustrate the topics.
  - To track the topic.
  - To facilitate indexing
  - To facilitate online searches.
  - Search Engine Optimization= SEO
  - …..

Why else do we need to know the mesh?

- Libraries use mesh to organize and catalog books.

Why else?

- Libraries also preferably use mesh to catalog dissertations and index them.

Search strategy

Kinds of English databses

- Biblographic Databses
  - Medline, Pubmed, Cinahal
- Citation databases:
  - ISI, Scopus, google scholar
- Full text databases:
  - Journal Article Databases:
    - Ovid journal Sceince direct
    - **Evidence Based Datases**
    - **Iran Cochrane, Ovid, …**
  - Thesis & dissertation Databases
    - Proquest
  - Books Databases
    - Clinical Key, ScienceDirect

Medline VS. Pubmed

a place of mind

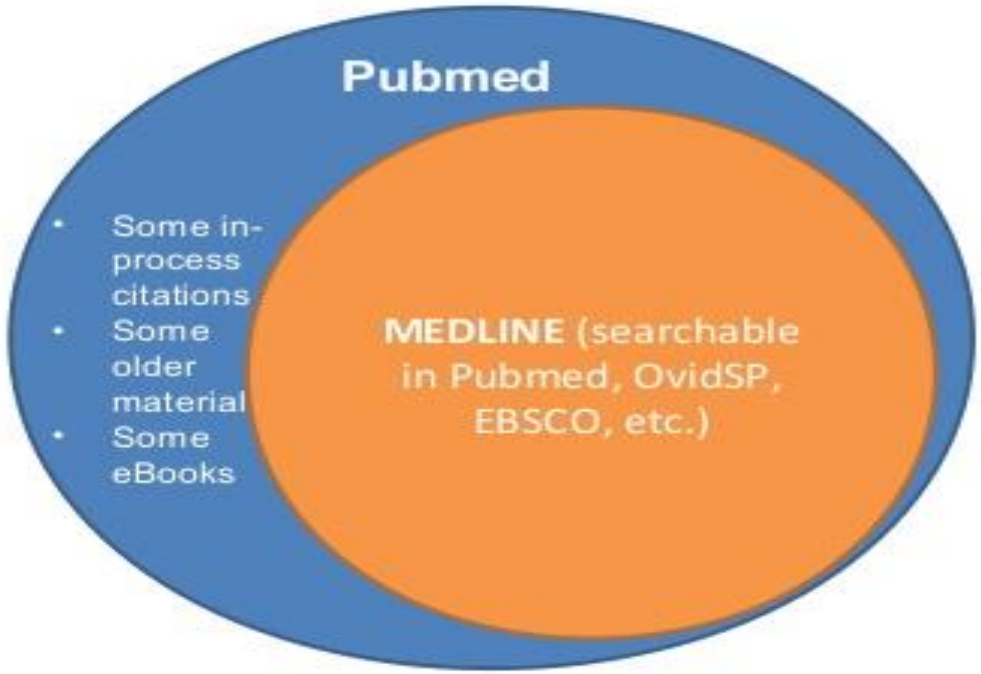
THE UNIVERSITY OF BRITISH COLUMBIA

Medline: Pubmed vs. Medline

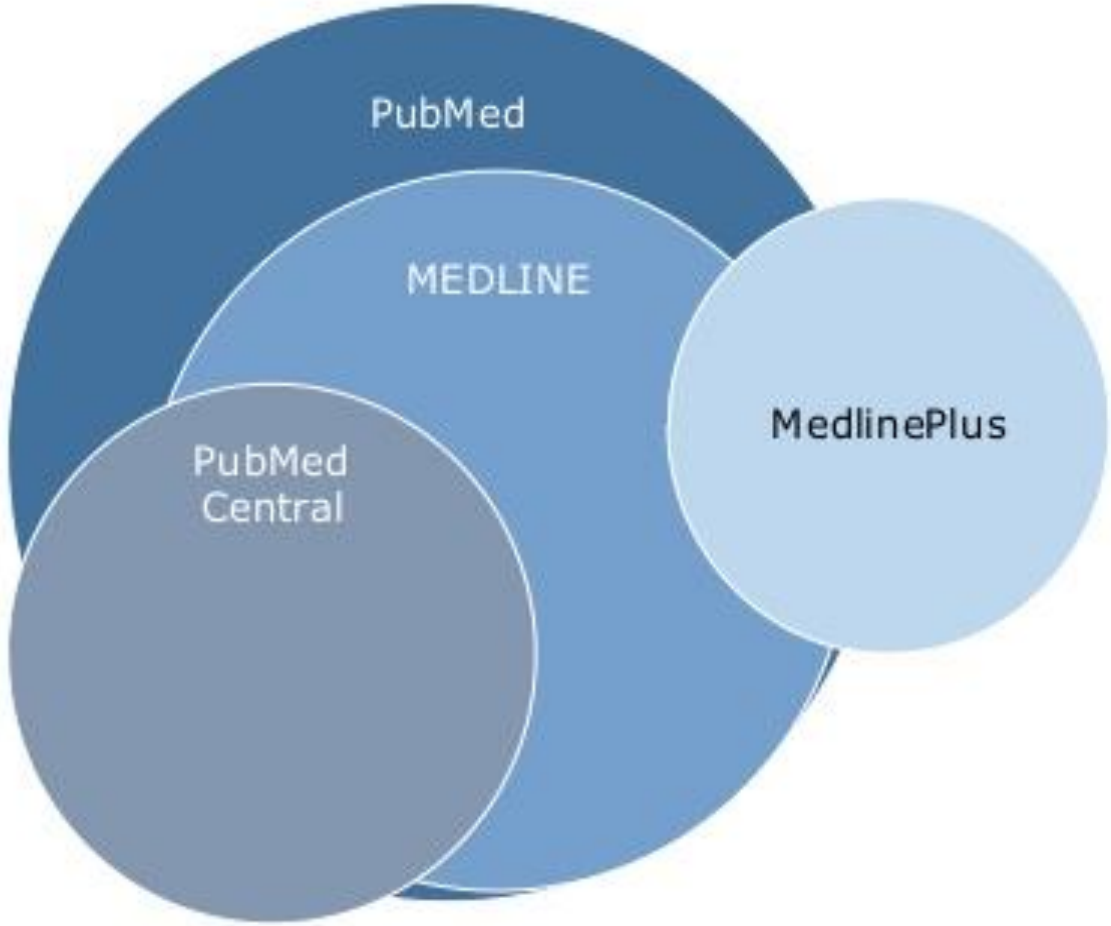
Medline is a database searchable through different interfaces

- Medline is a **database**
- Pubmed is an **interface** to Medline that includes some other material
- Medline can be searched using different interfaces (OvidSP, EBSCO)

*98% of what pubmed searches is searchable from other



Medline VS. Pubmed, Pubmed Central, medlineplus



Other Medline Interfaces

EBSCOhost

MEDLINE®

MEDLINE

- MEDLINE contains citations to journal articles in the life sciences with a concentration on biomedicine.
- The MEDLINE database contains citations from the late 1940s to the present, with some older material.

PubMed coverage

- The PubMed database contains citations and abstracts to biomedical literature, facilitating searching across several NLM literature resources:
- MEDLINE
- PubMed Central (PMC)
- NCBI Bookshelf

PubMed Central (PMC) Coverage

- PubMed Central (PMC) is a full text archive that includes:
- articles from journals reviewed and selected by NLM for archiving (current and historical), as well as individual articles and preprints collected for archiving in compliance with funder policies.
- Some PMC content, such as book reviews, is not cited in PubMed.

PubMed facilitates searching across several NLM literature resources:

MEDLINE

MEDLINE is the largest component of PubMed and consists primarily of citations from journals selected for MEDLINE; articles indexed with MeSH (Medical Subject Headings) and curated with funding, genetic, chemical and other metadata.

PubMed Central (PMC)

Citations for PubMed Central (PMC) articles make up the second largest component of PubMed.

PMC is a full text archive that includes articles from journals reviewed and selected by NLM for archiving (current and historical), as well as individual articles collected for archiving in compliance with funder policies.

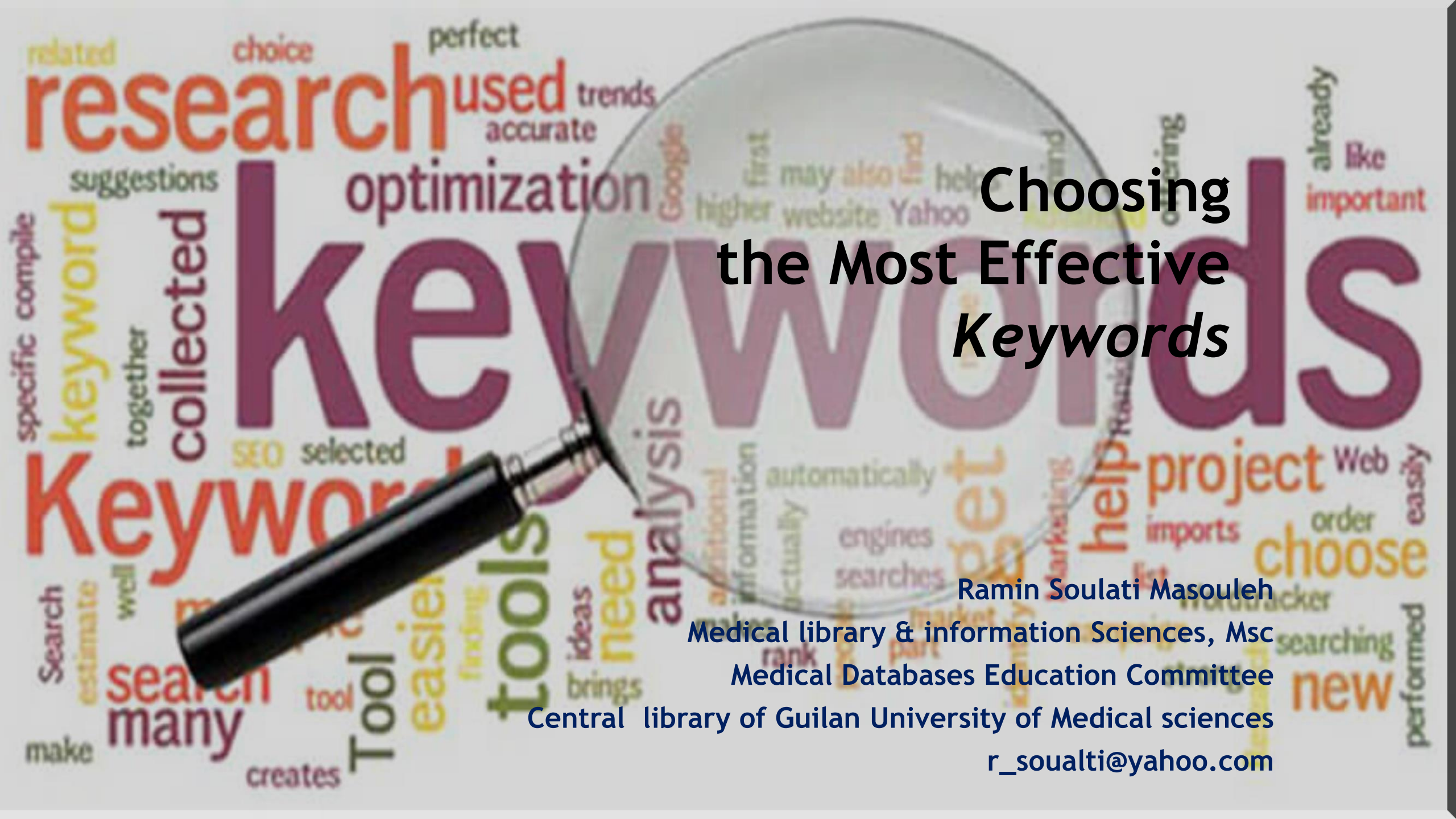
Bookshelf

The final component of PubMed is citations for books and some individual chapters available on Bookshelf.

Bookshelf is a full text archive of books, reports, databases, and other documents related to biomedical, health, and life sciences.

EN

Additional Resources



Choosing the Most Effective *Keywords*

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Kinds of Keywords in Biomedical Journals

- Natural Indexing Languages
  - Author Keywords = Natural Language Keywords.
- Controlled Indexing Languages:
  - Medical Subject heading = MESH.

MeSH Vocabulary includes four types of terms:

- Headings
- Subheadings
- Supplementary Concept Records
- Publication Characteristics (or Types)

MeSH headings

- also called "main headings" or "descriptors"
- represent concepts found in the biomedical literature.
- Examples:
  - Body Weight
  - Kidney
  - Dental Cavity Preparation
  - Self Medication
  - Radioactive Waste
  - Brain Edema

Subheadings

- Also called qualifiers
- Are attached to MeSH headings to describe a specific aspect of a concept
- Examples:
  - adverse effects
  - diagnosis
  - metabolism
  - therapy

Supplementary Concept Records

- are terms in a separate thesaurus from the Medical Subject Headings.
- These are primarily substance terms, but also include some protocols, some virus terms and rare disease terms.
- These terms are updated daily:
- **Class 1 Supplementary Records - Chemicals**
  Class 2 Supplementary Records - Protocols
  Class 3 Supplementary Records - Diseases
  Class 4 Supplementary Records - Organisms

Publication Characteristics

- or (Publication Types)
- describe the type of publication being indexed (i.e., the format of the publication)
- or characteristics of the research (i.e., the research design).
- Examples:
  - Letter
  - Review
  - Randomized Controlled Trial
  - There are also Publication Type terms that describe what type of organization funded the research.

MeSH Tree Structures

MeSH headings are organized in a "tree" with 16 main branches:

A. Anatomy
B. Organisms
C. Diseases
D. Chemicals and Drugs
E. Analytical, Diagnostic and Therapeutic Techniques and Equipment
F. Psychiatry and Psychology
G. Phenomena and Processes
H. Disciplines and Occupations
I. Anthropology, Education, Sociology and Social Phenomena
J. Technology, Industry, Agriculture
K. Humanities
L. Information Science
M. Named Groups
N. Health Care
V. Publication Characteristics
Z. Geographicals

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N. Health Care
V. Publication Characteristics
Z. Geographicals

Suggestions for Finding Author Keywords using MeSH Tools

The following are general suggestions for authors of journal articles who are interested in selecting MeSH descriptors (terms) as key words for their articles. Instructions to Authors vary for different journals; the specific journal should be consulted before selecting keywords. The NLM is not able to provide individual assistance in selecting keywords for journal articles; individual, personalized assistance should be sought from your local medical library.

MeSH Tools for finding Keywords

MeSH provides two tools to help authors select MeSH descriptors as key words for articles.

MeSH on Demand

MeSH on Demand is a tool that can automatically identify relevant MeSH terms from text such as an abstract or grant summary. It uses natural language processing (NLP) and the NLM Medical Text Indexer (MTI) to find MeSH terms. While the results will be different from human-generated indexing, MeSH on Demand does find relevant MeSH terms that can help jump-start finding MeSH terms in your search area. Note that these MeSH terms are machine generated by MTI and do not reflect any human review. This tool has been developed in close collaboration among MeSH Unit, NLM Index Section, and the Lister Hill National Center for Biomedical Communications.

The MeSH Browser

Medical Subject Headings 2020

The files are updated each week day Monday-Friday by 8AM EST

Search MeSH... FullWord Exact Match All Fragments Any Fragment

- All Terms
  - Main Heading (Descriptor) Terms
  - Qualifier Terms
  - Supplementary Concept Record Terms
- MeSH Unique ID
- Search in all Supplementary Concept Record Fields
  - Heading Mapped To
  - Indexing Information
- Pharmacological Action
- Search Related Registry and CAS Registry/EC Number/UNII Code (RN)
  - Related Registry Search
  - CAS Registry/EC Number/UNII Code (RN)
- Search in all Free Text Fields
  - Annotation
  - ScopeNote
  - SCR Note

Sort by: Relevance

Results per Page: 20

NIH U.S. National Library of Medicine

MeSH on Demand

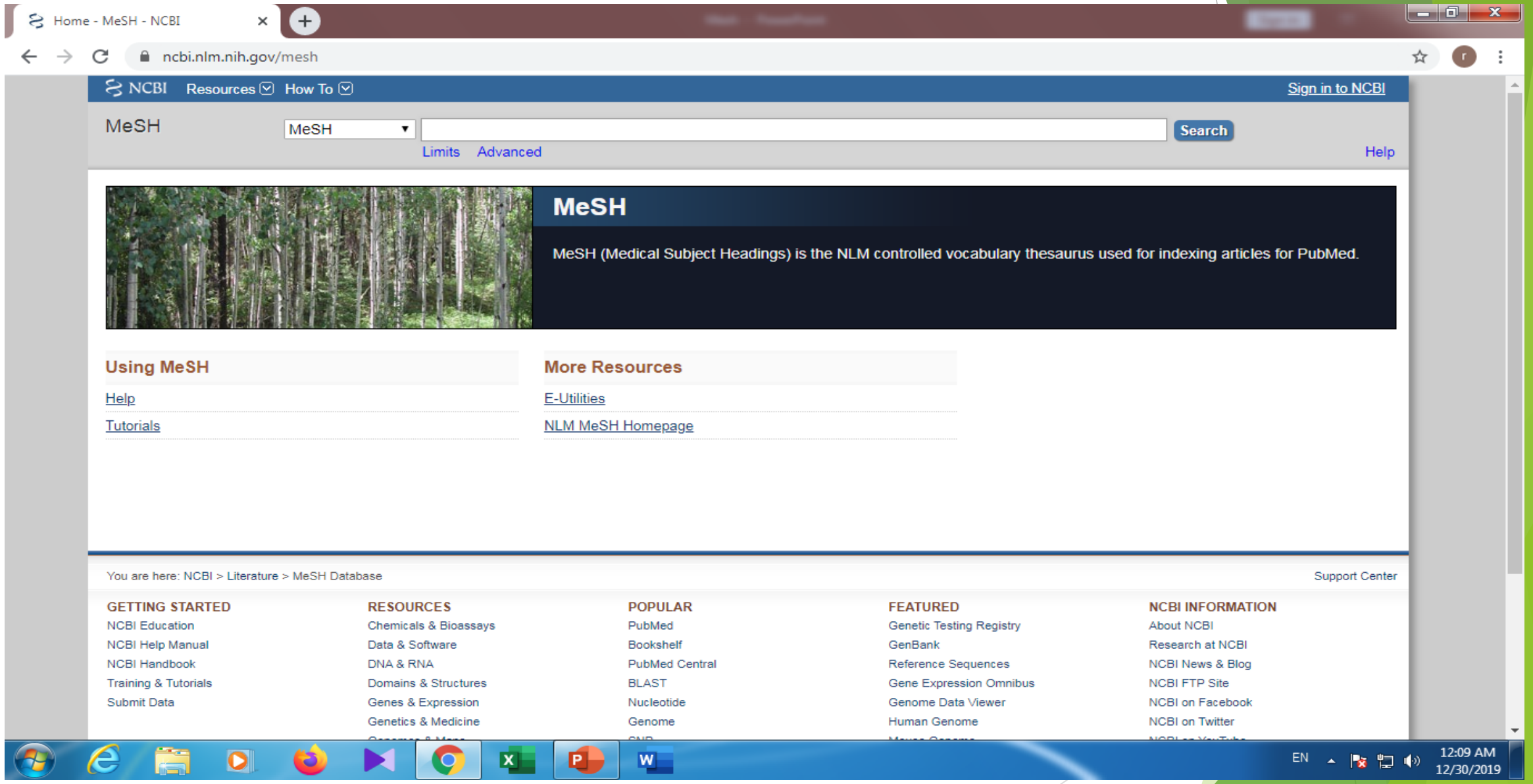
MeSH on Demand identifies MeSH® terms in your submitted text (abstract or manuscript). MeSH on Demand also lists PubMed similar articles relevant to your submitted text.

Search | Reset | Help/FAQ | Features

Enter text to be processed here - then click Search

Other MESH Interfaces

- Mesh On NCBI Portal
- Mesh on Medline


Home - MeSH - NCBI
ncbi.nlm.nih.gov/mesh
NCBI
Resources
How To
Sign in to NCBI
MeSH
MeSH
Search
Limits
Advanced
Help
MeSH
MeSH (Medical Subject Headings) is the NLM controlled vocabulary thesaurus used for indexing articles for PubMed.
Using MeSH
Help
Tutorials
More Resources
E-Utilities
NLM MeSH Homepage
You are here: NCBI > Literature > MeSH Database
Support Center
GETTING STARTED
NCBI Education
NCBI Help Manual
NCBI Handbook
Training & Tutorials
Submit Data
RESOURCES
Chemicals & Bioassays
Data & Software
DNA & RNA
Domains & Structures
Genes & Expression
Genetics & Medicine
POPULAR
PubMed
Bookshelf
PubMed Central
BLAST
Nucleotide
Genome
FEATURED
Genetic Testing Registry
GenBank
Reference Sequences
Gene Expression Omnibus
Genome Data Viewer
Human Genome
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Research at NCBI
NCBI News & Blog
NCBI FTP Site
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NCBI on Twitter
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12/30/2019

Select Resource(s) to search:

- **All Resources**
  - Books@Ovid December 23, 2019
  - Journals@Ovid Full Text December 27, 2019
  - Your Journals@Ovid
  - EBM Reviews - Cochrane Clinical Answers November 2019
  - Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations, Daily and Versions(R) 1946 to December 27, 2019
  - Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to December 27, 2019
  - Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 2015 to December 27, 2019
  - Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily - without Revisions 2015 to December 27, 2019
  - Ovid MEDLINE(R) Epub Ahead of Print December 27, 2019
  - Ovid MEDLINE(R) 2015 to December Week 3 2019

Medical Subject Heading | پرتال کتابخانه | Ovid: Search Form | Ovid: Search Form | کتابخانه دیجیتال-پایگاه های ا... | Ovid: Search Form

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Search | Journals | Books | Multimedia | My Workspace

▼ Search History (0) View Saved

	# ▲	Searches	Results	Type	Actions	Annotations
-	-	-	-	-	-	-

Save | Remove | Combine with: AND | OR

Save All | Edit | View Saved

Basic Search | Find Citation | Search Tools | Search Fields | Advanced Search | Multi-Field Search

1 Resource selected | Hide | Change

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to December 27, 2019

Search

▾ **Limits** *(close)* Include Multimedia Include Related Terms

- Abstracts
- Ovid Full Text Available
- Core Clinical Journals (AIM)
- English Language
- Review Articles
- Latest Update
- Evidence Based Medicine Reviews
- Humans

Publication Year - -

Age Groups

-

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Ovid was unable to map your term 'pain managament' to a subject heading.

Search History (0)

View Saved

# ▲	Searches	Results	Type	Actions	Annotations
-	-	-	-	-	-

Save | Remove | Combine with: AND | OR

Save All | Edit | View Saved

Basic Search | Find Citation | **Search Tools** | Search Fields | Advanced Search | Multi-Field Search

1 Resource selected | Hide | Change

Ovid MEDLINE(R) and Epub Ahead of Print, In-Process & Other Non-Indexed Citations and Daily 1946 to December 27, 2019

Map Term | body mass index | Search

Your term mapped to the following Subject Headings:

Click on a subject heading to view more general and more specific terms within the tree.

Term is a thesaurus term

Include All Subheadings

Combine with: OR ▾ Continue

Select	Subject Heading	Explode	Focus	Scope
☑	Body Mass Index	☐	☐	ⓘ
☐	body mass index.mp. *search as Keyword*			

Hints:

- **Trigger a Subject Heading link to view its tree - related terms that are more general and more specific.**
- **Select the Explode box if you wish to retrieve results using the selected term and all of its more specific terms.**
- **Select the Focus box if you wish to limit your search to those documents in which your subject heading is considered the major point of the article.**
- **If your search did not map to a desirable subject heading, select the box Search as Keyword.**
- **If you select more than one term, you can combine them using a boolean operator (AND or OR).**

 OvidUI_04.03.00.006, SourceID 34044a7

Search Information

You searched:
Body Mass Index/

Search terms used:
body
mass
index

Search Returned:
122401 text results

Sort By:
Too many results to sort.

Customize Display

Filter By

Add to Search History

1. **[Predictive value of body mass index combined with waist circumference for new-onset nonalcoholic fatty liver disease in patients with type 2 diabetes mellitus]. [Chinese]**

Wang S; Zhang J; Zhang W; Wang H; Hou J; Zhang R; Liu H; Wu S.

Nan Fang Yi Ke Da Xue Xue Bao = Journal of Southern Medical University. 39(11):1293-1297, 2019 Nov 30.

[Journal Article]

UI: 31852647

Authors Full Name
Wang, Shan; Zhang, Jian; Zhang, Weihuan; Wang, Haitao; Hou, Jingyue; Zhang, Ruixiu; Liu, Hongfen; Wu, Shouling.

▶ Abstract | + My Projects | + Annotate

Abstract Reference | Complete Reference | Find Similar | Find Citing Articles | Document Delivery

2. **Effects of Metformin Treatment on Soluble Leptin Receptor Levels in Women with Polycystic Ovary Syndrome.**

Liu RB; Liu Y; Lv LQ; Xiao W; Gong C; Yue JX.

Current Medical Science. 39(4):609-614, 2019 Aug

Abstract Reference | Complete Reference


از حسن توجه شما سپاسگزارم