

# Cataloging with MeSH

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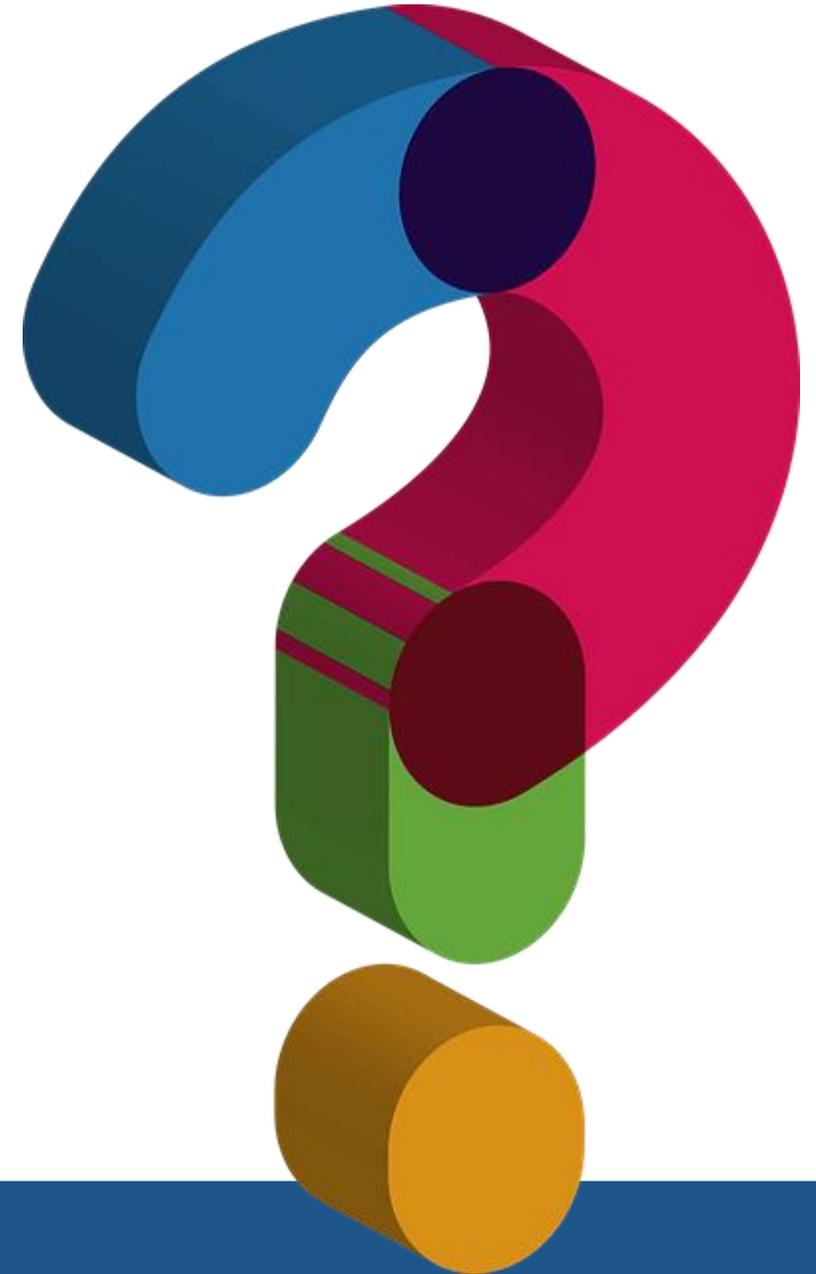


# Agenda

- Introduction to MeSH and the MeSH Browser (~50 minutes)
- Principles of Cataloging with MeSH (~30 minutes)
- Q&A (~10 minutes)



# Why Use MeSH?





# Example 1: Keyword Searching Challenges

Title: Foo-foo dust



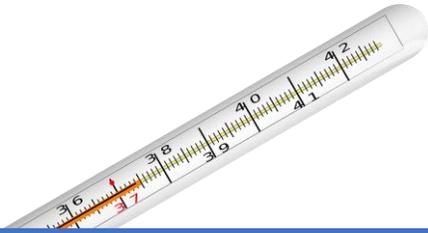
## Foo-foo Dust

A Mother. A Son. Crack. Heroin. A Tale of Love and Addiction.

Trailer for Foo-foo Dust



# Example 2: Keyword Searching Challenges



Mercury!



What do we call these? (Respond in chat.)

# Example 3: Keyword Searching Challenges



Nursery!

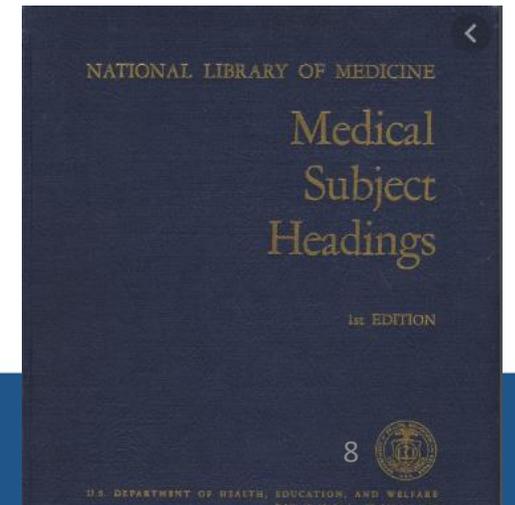
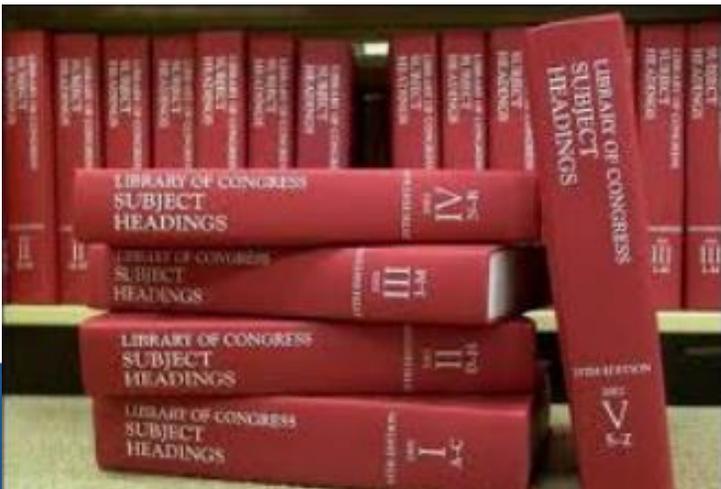
What do we call these? (Respond in chat.)

# Controlled Vocabulary

## Benefits

- Identifies a preferred way of expressing a concept
- Provides cross-references that lead to the preferred term
- Identifies a term's relationship to broader, narrower, and related term

## Examples of Controlled Vocabularies



# MeSH: Medical Subject Headings



Find MeSH using the MeSH Browser:

<https://meshb.nlm.nih.gov/search>

# 3 Types of MeSH Records:

- Descriptors (main headings)
- Qualifiers (subheadings)
- Supplementary Concept Records (not used by Cataloging)

# 3 Types of MeSH Descriptors:

## 1. Topical

- Indicate the subject/topic
- *Examples:* Body Weight, Kidney, Self-Medication

## 2. Publication Characteristics (Publication Types)

- Indicate the genre or format
- *Examples:* Atlases, Handbooks, Statistics

## 3. Geographicals

- Indicate the geographic locations, including historical locations
- *Examples:* Atlantic Islands, North America, England, Prussia

# MeSH Tree Structure

- 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



# MeSH Tree Example

Anatomy

Body Regions

Torso

**Back**

Lumbosacral Region

Sacrococcygeal Region



# MeSH Tree Example (2)

Anatomy

Body Regions

Head

**Ear**

Anatomy

Sense Organs

**Ear**

Ear, External +

Ear, Middle +

Ear, Inner +



# MeSH Tree Structure

## Topical A-N

- 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



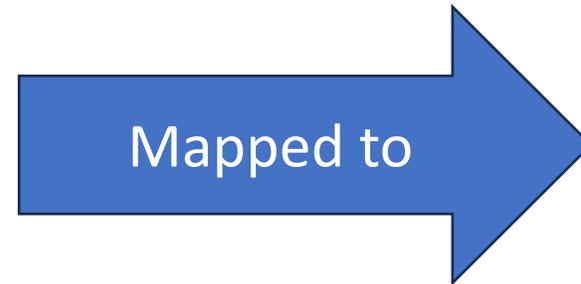
- V. Publication Characteristics
- Z. Geographicals

# MeSH Qualifiers (aka Subheadings)

- therapeutic use
  - administration & dosage
  - adverse effects
  - poisoning

# Supplementary Concept Records (SCRs)

COVID 19 stress syndrome  
COVID 19 rebound  
COVID 19 breakthrough infections

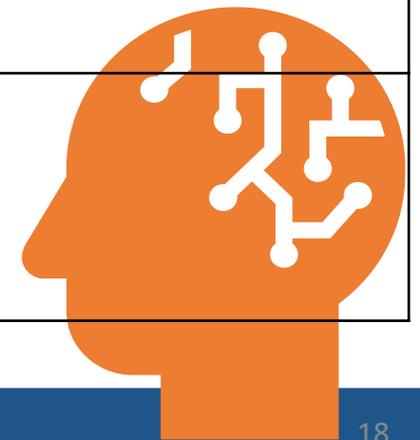


**COVID-19**

# MeSH Record Types: Your Turn!

Q1: Name the type of MeSH term described by each of the below:

1. Primarily substance terms, but also include some protocols, virus terms and rare disease terms	
2. Describe a topical concept	
3. Describe a particular aspect of a concept	



# The MeSH Browser

The screenshot displays the MeSH Browser interface. At the top, there is a dark blue header with the NIH logo and the text "National Library of Medicine". Below this is a navigation bar with links for "Search", "Tree View", "MeSH on Demand", "MeSH 2022", "About", "Suggestions", "Contact Us", and a "Survey" button. The main content area features the title "Medical Subject Headings 2023" and a subtitle "The files are updated each week day Monday-Friday by 8AM EST". A search bar is present with the placeholder text "Search MeSH...". To the right of the search bar are four buttons: "FullWord", "Exact Match" (which is highlighted in blue), "All Fragments", and "Any Fragment". Below the search bar is a list of search options, each with a radio button. The "Main Heading (Descriptor) Terms" option is selected. To the right of the search options are two dropdown menus: "Sort by:" set to "Relevance" and "Results per Page:" set to "20".

NIH National Library of Medicine

Search Tree View MeSH on Demand MeSH 2022 About Suggestions Contact Us Survey

## Medical Subject Headings 2023

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/NCBI Taxonomy ID Number (RN)

Related Registry Search

CAS Registry/EC Number/UNII Code/NCBI Taxonomy ID Number (RN)

Search in all Free Text Fields

Annotation

ScopeNote

SCR Note

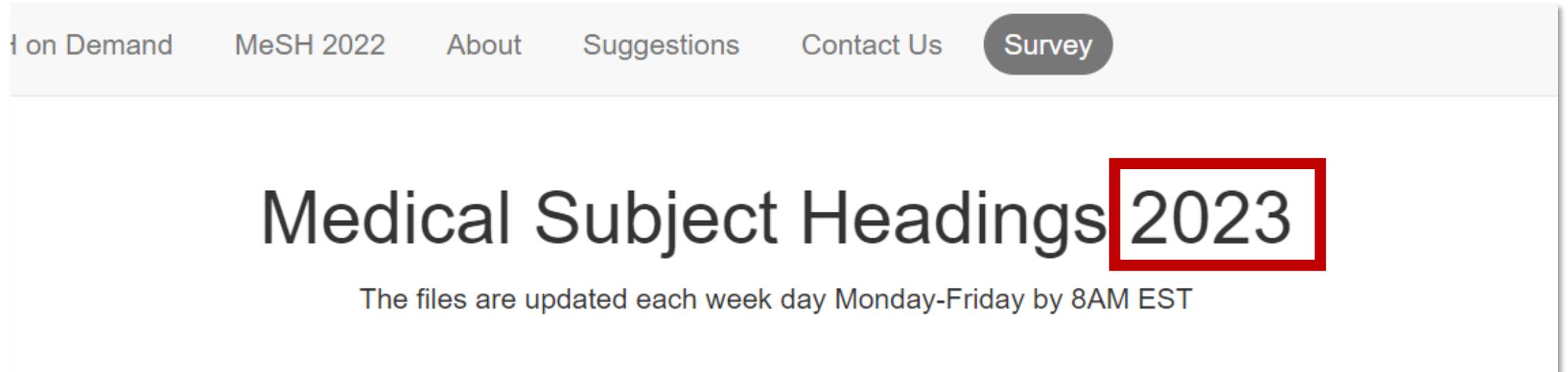
Sort by: Relevance

Results per Page: 20

# MeSH Browser Navigation



# The MeSH Browser: Version



The screenshot shows the top navigation bar of the MeSH Browser website. The navigation items are: "On Demand", "MeSH 2022", "About", "Suggestions", "Contact Us", and "Survey". The "Survey" button is highlighted with a dark grey background. Below the navigation bar, the main heading reads "Medical Subject Headings 2023", where the year "2023" is enclosed in a red rectangular box. Underneath the heading, a subtext states: "The files are updated each week day Monday-Friday by 8AM EST".

# Search Methods

Search MeSH...

FullWord ▾ Exact

All Terms

Main Heading (Descriptor) Terms

...

FullWord Search  
SubString Search

# Modify Search Methods

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

A screenshot of a search interface. On the left is a search input field with the placeholder text "Search MeSH...". To its right is a dropdown menu currently showing "FullWord" with a downward arrow. Further right is a horizontal menu with three options: "Exact Match", "All Fragments", and "Any Fragment". The "All Fragments" option is highlighted with a blue background and is enclosed in a red rectangular box.

# Term Search Options

- All Terms
- Main Heading (Descriptor) Terms
- Qualifier Terms
- Supplementary Concept Record Terms

# Metadata Field Search

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/NCBI Taxonomy ID Number (RN)

Related Registry Search

CAS Registry/EC Number/UNII Code/NCBI Taxonomy ID Number (RN)

# Search in all Free Text Fields

- Search in all Free Text Fields
  - Annotation
  - ScopeNote
  - SCR Note

# DEMO: MeSH Browser Search Options

<https://meshb.nlm.nih.gov/>

# MeSH Browser Search Options: Your Turn!

**Select:** “SubString,” “All Fragments,” “Main Heading (Descriptor) Terms”

**Search:** psychol feedback

**Q2: What is included in your results? (Use chat.)**

A2: Word variations with these strings (Biofeedback, Psychology and Feedback, Psychological).



# Recommended Search Settings for Catalogers

Search MeSH...

SubString ▾ Exact Match **All Fragments** Any Fragment

All Terms

Main Heading (Descriptor) Terms

Qualifier Terms

Supplementary Concept Record Terms

Sort by: Name ▾

Results per Page: 1000 ▾

# Viewing Descriptor Records

## Adolescent Health MeSH Descriptor Data 2023

Details

Qualifiers

MeSH Tree Structures

Concepts

**MeSH Heading** Adolescent Health

**Tree Number(s)** [N01.400.075](#)

**Unique ID** D000067697

**RDF Unique Identifier** <http://id.nlm.nih.gov/mesh/D000067697>

**Scope Note** The concept covering the physical and mental conditions of [ADOLESCENTS](#).

# Details Tab

## Adolescent Health MeSH Descriptor Data 2023

Details

Qualifiers

MeSH Tree Structures

Concepts

<b>MeSH Heading</b>	Adolescent Health
<b>Tree Number(s)</b>	<a href="#">N01.400.075</a>
<b>Unique ID</b>	D000067697
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D000067697">http://id.nlm.nih.gov/mesh/D000067697</a>
<b>Scope Note</b>	The concept covering the physical and mental conditions of <a href="#">ADOLESCENTS</a> .
<b>Entry Term(s)</b>	Adolescent Well Being Adolescent Well-Being Adolescent Wellbeing Teen Health
<b>NLM Classification #</b>	WS 460
<b>See Also</b>	<a href="#">Adolescent Health Services</a> <a href="#">Adolescent Medicine</a>
<b>Public MeSH Note</b>	2016
<b>History Note</b>	2016
<b>Date Established</b>	2016/01/01
<b>Date of Entry</b>	2015/07/06
<b>Revision Date</b>	2021/05/12

# Qualifiers Tab

## Adolescent Health MeSH Descriptor Data 2023

[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)

# MeSH Tree Structures Tab

Adolescent Health MeSH Descriptor Data 2023

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]
    - Military Health [N01.400.506]
    - Minority Health [N01.400.512]

**Physical Fitness [N01.400.545]**  

- Public Health [N01.400.550]
- Reproductive Health [N01.400.625]
- Sexual Health [N01.400.663]
- Social Determinants of Health [N01.400.675]
- Veterans Health [N01.400.850]
- Women's Health [N01.400.900] 

# Concepts Tab

**Adolescent Health** MeSH Descriptor Data 2023

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

***Adolescent Health Preferred***  
***Adolescent Well Being Related***

# MeSH Descriptor Records: Your Turn!

**Use the recommended cataloger search settings:**

Main Heading, SubString, All Fragments, Sort by Name, 1000 Results

Search: **fostering**

**Q3: What is the preferred MeSH Descriptor?**

A3: Foster Home Care

**Q4: What related concepts are listed?**

A4: Fostering, Kinship Care, Adult Foster Care (narrower)



# Useful Annotations in the MeSH Browser

# Topical Annotations

- Coordination with other headings
- Use of subheadings
- Context of term
- Similar/related terms to consider
- Similar terms that may cause confusion

# Topical Annotation Example: Coordination

## Unilateral Breast Neoplasms MeSH Descriptor Data 2023

Details

Qualifiers

MeSH Tree Structures

Concepts

**MeSH Heading** Unilateral Breast Neoplasms

**Tree Number(s)** C04.588.180.800

C17.800.090.500.682

**Unique ID** D000069584

**RDF Unique Identifier** <http://id.nlm.nih.gov/mesh/D000069584>

**Annotation** human only **coordinate IM with histological type of neoplasm (IM)**

**Scope Note** Tumors or cancer found specifically in one human **BREAST**, but not in both.

# Topical Annotation Example: Use of Subheadings

## Rhinosporidium MeSH Descriptor Data 2023

Details

Qualifiers

MeSH Tree Structures

Concepts

<b>MeSH Heading</b>	Rhinosporidium
<b>Tree Number(s)</b>	B01.500.700
<b>Unique ID</b>	D012228
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D012228">http://id.nlm.nih.gov/mesh/D012228</a>
<b>Annotation</b>	infection = RHINOSPORIDIOSIS use /parasitol not /microbiol on other terms to indicate the presence of Rhinosporidium
<b>Scope Note</b>	A genus in the order Dermocystidium, class MESOMPHOTETZOEIA. It causes RHINOSPORIDIOSIS in MAMMALS and BIRDS.

# Topical Annotation Example: Context

## Cell Survival MeSH Descriptor Data 2023

Details   Qualifiers   MeSH Tree Structures   Concepts

<b>MeSH Heading</b>	Cell Survival
<b>Tree Number(s)</b>	G04.346
<b>Unique ID</b>	D002470
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D002470">http://id.nlm.nih.gov/mesh/D002470</a>
<b>Annotation</b>	NIM not for micro-organisms
<b>Scope Note</b>	The span of viability of a cell characterized by the capacity to perform certain functions such as metabolism, growth, reproduction, some form of responsiveness, and adaptability.

# Topical Annotation Example: Similar/related terms

## Glycemic Load MeSH Descriptor Data 2023

Details   Qualifiers   MeSH Tree Structures   Concepts

<b>MeSH Heading</b>	Glycemic Load
<b>Tree Number(s)</b>	<a href="#">G07.203.650.660.750</a> <a href="#">J01.576.423.850.730.750.750</a> <a href="#">N06.850.601.750.750</a>
<b>Unique ID</b>	D000067940
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D000067940">http://id.nlm.nih.gov/mesh/D000067940</a>
<b>Annotation</b>	<b>GLYCEMIC INDEX</b> is also available
<b>Scope Note</b>	A quantitative value of a measured amount of a specific food that is equal to the <b>GLYCEMIC INDEX</b> of that food multiplied by the carbohydrate content of that food.

# Topical Annotation Example: Do not confuse with...

## Accommodation, Ocular MeSH Descriptor Data 2023

Details   Qualifiers   MeSH Tree Structures   Concepts

<b>MeSH Heading</b>	Accommodation, Ocular
<b>Tree Number(s)</b>	G14.010
<b>Unique ID</b>	D000065
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D000065">http://id.nlm.nih.gov/mesh/D000065</a>
<b>Annotation</b>	do not confuse with ADAPTATION, OCULAR, adjustment of eye to light

# Topical Annotations: Your Turn!

**Q5: According to the annotation, what other terms might you add when using the heading Ablation Techniques?**

A5: Organ or disease with /surgery

**Q6: To describe taking leave to care for parents, which is correct: Family Leave or Parental Leave?**

A6: Family Leave



# Cataloger-Specific Annotations

- CATALOGER: Do not use
- CATALOGER: Use NAF entry
- CATALOGER: Coordinate with specific NAF
- CATALOGER: Use for historical material only
- CATALOGER: Used by collaborating partners only
- INDEXER: Do not use

# Cataloger-Specific Annotation Example: Do not use

## Diet, Food, and Nutrition MeSH Descriptor Data 2023

Details   Qualifiers   MeSH Tree Structures   Concepts

<b>MeSH Heading</b>	Diet, Food, and Nutrition
<b>Tree Number(s)</b>	<a href="#">G07.203</a>
<b>Unique ID</b>	D000066888
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D000066888">http://id.nlm.nih.gov/mesh/D000066888</a>
<b>Annotation</b>	used for searching; INDEXER: Do not use; CATALOGER: Do not use
<b>Scope Note</b>	Concepts involved with nutritional physiology, including categories of substances eaten for sustenance, nutritional phenomena and processes, eating patterns and habits, and measurable nutritional parameters.

# Cataloger-Specific Annotation Example: Use NAF entry

## Medicare Access and CHIP Reauthorization Act of 2015 MeSH Descriptor Data 2023

Details Qualifiers MeSH Tree Structures Concepts

<b>MeSH Heading</b>	Medicare Access and CHIP Reauthorization Act of 2015
<b>Tree Number(s)</b>	N03.219.521.346.506.564.663.250 N03.219.521.576.343.840.254 N03.706.615.696.500
<b>Unique ID</b>	D000072641
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D000072641">http://id.nlm.nih.gov/mesh/D000072641</a>
<b>Annotation</b>	CATALOGER: Use NAF entry
<b>Scope Note</b>	An Act that amends Title XVIII of the Social Security Act to repeal the Medicare sustainable growth rate, that strengthens Medicare access by improving physician payments, and that reauthorizes the Children's Health Insurance Program (CHIP).

# Cataloger-Specific Annotation Example: Coordinate with specific NAF

## Blue Cross Blue Shield Insurance Plans MeSH Descriptor Data 2023

Details

Qualifiers

MeSH Tree Structures

Concepts

<b>MeSH Heading</b>	Blue Cross Blue Shield Insurance Plans
<b>Tree Number(s)</b>	<a href="#">N03.219.521.710.305.090.125</a>
<b>Unique ID</b>	D054598
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D054598">http://id.nlm.nih.gov/mesh/D054598</a>
<b>Annotation</b>	specify geographic term if possible <b>CATALOGER: Coordinate with specific NAF entry if applicable</b>
<b>Scope Note</b>	Prepaid health and hospital insurance plan.

# Cataloger-Specific Annotation Example: Use for historical material only

## Annual Report MeSH Descriptor Data 2023

Details   Qualifiers   MeSH Tree Structures   Concepts

<b>MeSH Heading</b>	Annual Report
<b>Tree Number(s)</b>	V02.130
<b>Unique ID</b>	D019487
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D019487">http://id.nlm.nih.gov/mesh/D019487</a>
<b>Annotation</b>	This heading is used as a Publication Type. Annual reports as a subject are indexed under the main heading ANNUAL REPORTS AS TOPIC. INDEXER: Do not use; <b>CATALOGER: Use for historical material only</b>
<b>Scope Note</b>	Annual statements concerning the administrative and operational functions of an institution or organization.

# Cataloger-Specific Annotation Example: Used by collaborating partners only

**Unpublished Work** MeSH Descriptor Data 2023

Details   Qualifiers   MeSH Tree Structures   Concepts

<b>MeSH Heading</b>	Unpublished Work
<b>Tree Number(s)</b>	V02.950
<b>Unique ID</b>	D022902
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D022902">http://id.nlm.nih.gov/mesh/D022902</a>
<b>Annotation</b>	This heading is used as a Publication Type <b>CATALOGER: Used by collaborating partners only</b>
<b>Scope Note</b>	Work that has not been formally published.

# Cataloger-Specific Annotation Example: INDEXER: Do not use

**Pathologic Processes** MeSH Descriptor Data 2023

Details   Qualifiers   MeSH Tree Structures   Concepts

<b>MeSH Heading</b>	Pathologic Processes
<b>Tree Number(s)</b>	C23.550
<b>Unique ID</b>	D010335
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D010335">http://id.nlm.nih.gov/mesh/D010335</a>
<b>Annotation</b>	<b>INDEXER: Do not use</b>
<b>Scope Note</b>	The abnormal mechanisms and forms involved in the dysfunctions of tissues and organs.

# Cataloger-Specific Annotations: Your Turn!

**Q7: Which of the following headings can you use for cataloging?**

a. Age Groups

b. Animation

**Q8: What heading do you use for Alcoholics Anonymous?**

A8: NAF entry



# Searching for Cataloger Annotations

cataloger

FullWord ▾ Exact Match **All Fragments** Any Fragment

Sort by: Name ▾  
Results per Page: 1000 ▾

- 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/NCBI Taxonomy ID Number (RN)
  - Related Registry Search
  - CAS Registry/EC Number/UNII Code/NCBI Taxonomy ID Number (RN)
- Search in all Free Text Fields
  - Annotation
  - ScopeNote
  - SCR Note

# Locating Main Concepts

# Recall the Recommended Search Settings for Catalogers

Search MeSH...

SubString ▾ Exact Match **All Fragments** Any Fragment

All Terms

Main Heading (Descriptor) Terms

Qualifier Terms

Supplementary Concept Record Terms

Sort by: Name ▾

Results per Page: 1000 ▾

# DEMO: Locating Main Concepts

<https://meshb.nlm.nih.gov/>

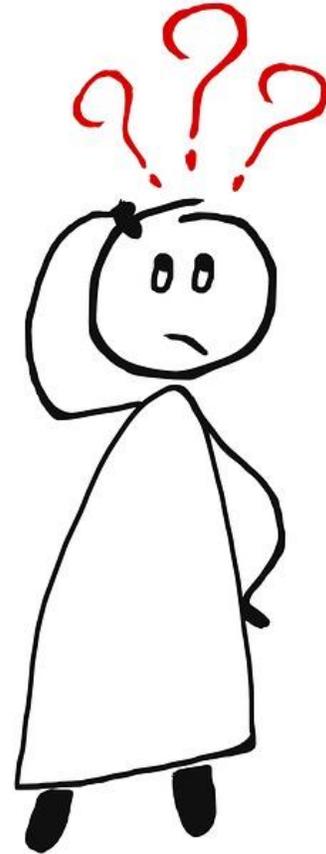
# Locating Main Concepts: Your Turn!

**Q9: What heading would you use for a work about measuring Cardiac Impedance?**

A9: Cardiography, Impedance



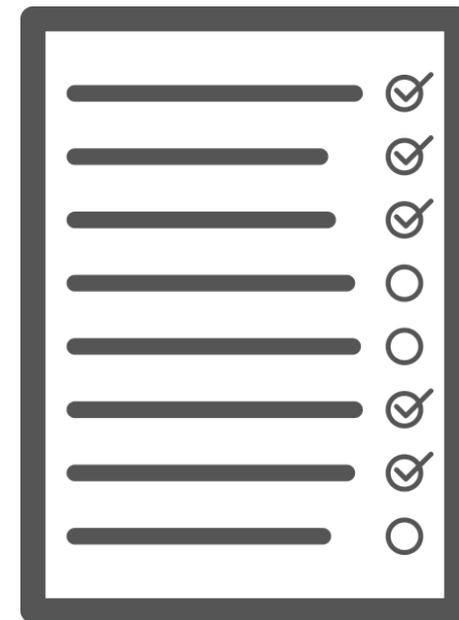
Questions?



# Principles of Cataloging

# Subject Analysis Principles

- Specificity
- “Rule of three”
- Specialty headings
- Special considerations for Supplementary Concepts
- Format of Subject Headings in Bibliographic Records



# Order of Preference for Specificity

Specific aspects of a topic are conveyed by (in order of preference when available)

1. Pre-coordinated descriptors
2. Descriptor/qualifier (Main heading/subheading) combinations
3. Multiple descriptors

# Pre-Coordinated Descriptors vs. Qualifiers

**Biliary Tract** MeSH Descriptor Data 2023

Details **Qualifiers** MeSH Tree Structures Concepts

**Entry Combination** surgery:Biliary Tract Surgical Procedures ←

**Allowable Qualifiers** abnormalities (AB)  
anatomy & histology (AH)  
blood supply (BS)

**Entry Combination** surgery:Biliary Tract Surgical Procedures

- embryology (EM)
- enzymology (EN)
- growth & development (GD)
- immunology (IM)
- injuries (IN)
- innervation (IR)
- metabolism (ME)
- microbiology (MI)
- parasitology (PS)
- pathology (PA)
- physiology (PH)
- physiopathology (PP)
- radiation effects (RE)
- ultrastructure (UL)
- virology (VI)

**Liver** MeSH Descriptor Data 2023

Details **Qualifiers** MeSH Tree Structures Concepts

**Entry Combination** transplantation:Liver Transplantation

**Allowable Qualifiers** abnormalities (AB)  
anatomy & histology (AH)  
blood supply (BS)  
chemistry (CH)  
cytology (CY)  
diagnostic imaging (DG)  
drug effects (DE)  
embryology (EM)

**surgery (SU)** ←

- metabolism (ME)
- microbiology (MI)
- parasitology (PS)
- pathology (PA)
- physiology (PH)
- physiopathology (PP)
- radiation effects (RE)
- surgery (SU) ←
- ultrastructure (UL)
- virology (VI)

# Pre-coordinated Descriptors vs. Multiple Descriptors

- Research in occupational therapy:
  - *Occupational Therapy*
  - *Research*
- Research in nursing:
  - *Nursing Research*

# Exception to Specificity: “Rule of Three”

## Urination Disorders [C12.050.351.968.934] -

Anuria [C12.050.351.968.934.070]

Enuresis [C12.050.351.968.934.252] +

Glycosuria [C12.050.351.968.934.363] +

Hematuria [C12.050.351.968.934.442]

Oliguria [C12.050.351.968.934.600]

Polyuria [C12.050.351.968.934.616]

Proteinuria [C12.050.351.968.934.734] +

Urinary Incontinence [C12.050.351.968.934.814] +

Urinary Retention [C12.050.351.968.934.880]

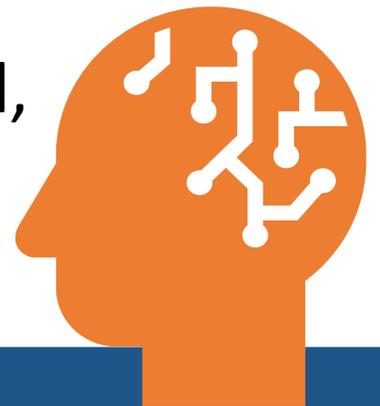
# Rule of Three: Your Turn!

**Q10: What descriptor(s) would you use to describe a work about levels of D-aspartic acid, 1-carboxyglutamic acid, polyglutamic acid, and isoaspartic acid?**

a. D-aspartic acid

b. Amino Acids, Acidic

c. D-aspartic acid, 1-Carboxyglutamic Acid, Polyglutamic Acid, and Isoaspartic Acid (all four descriptors)



# Specialty Headings

## Bariatric Medicine MeSH Descriptor Data 2023

Details   Qualifiers   MeSH Tree Structures   Concepts

<b>MeSH Heading</b>	Bariatric Medicine
<b>Tree Number(s)</b>	<a href="#">H02.403.074</a>
<b>Unique ID</b>	D052938
<b>RDF Unique Identifier</b>	<a href="http://id.nlm.nih.gov/mesh/D052938">http://id.nlm.nih.gov/mesh/D052938</a>
<b>Annotation</b>	specialty only; <a href="#">BARIATRICS</a> is available for bariatric procedures
<b>Scope Note</b>	The discipline concerned with <a href="#">WEIGHT REDUCTION</a> in patients with <a href="#">OBESITY</a> .
<b>Previous Indexing</b>	Bariatrics (2005-2006)
<b>See Also</b>	<a href="#">Bariatric Surgery</a> <a href="#">Bariatrics</a>
<b>Public MeSH Note</b>	2007
<b>History Note</b>	2007
<b>Date Established</b>	2007/01/01
<b>Date of Entry</b>	2006/07/05
<b>Revision Date</b>	2013/07/09

# MeSH Trees for Specialties

Disciplines and Occupations [H] 

Natural Science Disciplines [H01] 

Health Occupations [H02] 

Health Occupations [H02] 

Acupuncture [H02.004]

Allied Health Occupations [H02.010] 

Biomedical Engineering [H02.070]

Chiropractic [H02.110]

Dentistry [H02.163] 

Environmental Health [H02.229] 

Evidence-Based Practice [H02.249] 

Health Services Administration [H02.269]

Hospital Administration [H02.309]

Medical Illustration [H02.385]

Medicine [H02.403] 

Mortuary Practice [H02.438]

Nursing [H02.478] 

Nursing, Practical [H02.495]

Nutritional Sciences [H02.533] 

# Specialty vs. Diseases

Specialty	Corresponding Disease Term
Dermatology	Skin Diseases
Rheumatology	Rheumatic Diseases
Hematology	Hematologic Diseases

# Specialty Headings: Your Turn!

**Q11: What descriptor(s) would you use to describe a work titled *The Status of Diagnosis in Endocrinology*?**

**A11: Endocrine System Diseases / diagnosis**



# Specialty vs. Phenomena or Processes

Specialty	Corresponding Phenomena Term
Biochemistry	Biochemical Phenomena
Genetics	Genetic Phenomena
Physiology	Physiological Phenomena
Chemistry	Chemical Phenomena

# Subheadings indicating Specialty

*Future of biochemistry*

BIOCHEMISTRY / \*trends  
FORECASTING

*Algorithms for characterization of stochastic biochemical rare events*

\*BIOCHEMICAL PHENOMENA  
\*ALGORITHMS  
STOCHASTIC PROCESSES

# Exceptions to Specialty Rule

- Pediatrics
- Geriatrics

# Supplementary Concept Records (SCRs)

oxiconazole

oxiconazole MeSH Supplementary Concept Data 2023

Details Concepts

**MeSH Supplementary Unique ID** oxiconazole  
C022155

**RDF Unique Identifier** <http://id.nlm.nih.gov/mesh/C022155>

**Entry Term(s)** (Z)-1-(2,4-dichlorophenyl)-2-(1H-imidazol-1-yl)-O-(2,4-dichlorobenzyl) ethanone oxime nitrate  
2',4'-dichloro-2-imidazol-1-ylacetophenone (Z)-(O-(2,4-dichlorobenzyl)oxime), mononitrate  
Fonx  
Gyno-Myfungar  
Myfungar  
Oceral  
Oxistat  
Oxizole  
RO-13-8996  
Salongo  
Sgd 301-76

Heading Mapped to \*Imidazoles

**CAS Type 1 Name** RQ8UL4C17S  
Ethanone, 1-(2,4-dichlorophenyl)-2-(1H-imidazol-1-yl)-, O-((2,4-dichlorophenyl)methyl)oxime, (Z)-, mononitrate

**Heading Mapped to** \*Imidazoles ←

**Frequency** 64

**Note** RN given refers to parent cpd(Z)-isomer; structure given in first source

**Source** Arzneimittel Forsch 29(10):1510;1979

**Date of Entry** 1980/01/01

**Revision Date** 2017/07/26

# Supplementary Concepts: Your Turn!

**Q14: What descriptor(s) would you use to describe a work about watermelon stomach disease?**

**A14: Gastric Antral Vascular Ectasia**



# Format of Subject Headings in Bibliographic Records

# MARC Coding of Subject Access Entries

## From the MeSH vocabulary

650 X2 \$a Main subject \$x topical subheading

651 2 \$a Geographic \$x topical subheading

655 2 \$a Publication type/Form

# Example 1: MARC Coding

A work on acupuncture for chronic low back pain

650 12 \$a Low Back Pain \$x therapy

650 22 \$a Acupuncture Therapy

650 22 \$a Chronic Disease \$x therapy

# Example 2: MARC Coding

A directory of services for the aging in New York State

650 12 \$a Health Services for the Aged

651 2 \$a New York

655 2 \$a Directory

# MARC Coding of Subject Access Entries

## From the NAF

- 600 X2 \$a Personal names
- 610 X2 \$a Corporate names
- 611 X2 \$a Conference names
- 630 X2 \$a Uniform Titles



# Submitting MeSH Suggestions

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I. Home

## User Suggestions for Medical Subject Headings

### Your Feedback is Welcome!

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MeSH vocabulary suggestions are reviewed for literary warrant and other criteria of usefulness, for reproducibility in use, and for understandability. Our mission is to produce a clear and concise vocabulary that is useful for indexing and retrieval of biomedical literature. Each entry term expression in MeSH is unique and carefully chosen to avoid expressions that are multimeaning. Although MeSH works closely with a variety of NLM departments that provide indexing, citation data, and publications we are not directly involved in these processes and cannot provide answers for questions related to these areas.

### To help us expedite your request please follow the guidelines below:

- I. Please click: [Write to the help desk](#) to open a new window or tab with an online request form.
- II. Locate the **Subject** box and enter the one of the following as the subject of your request:
  1. To suggest a new MeSH term or descriptor (heading): "**New MeSH term**"
  2. For changes to MeSH vocabulary: "**MeSH term change**"
  3. For corrections to a MeSH concept or meaning: "**MeSH correction**"
  4. For corrections or changes to the MeSH tree hierarchy: "**MeSH tree change**"
  5. **None of the above? Please feel free to provide your own Subject.**
- III. Describe the change or addition to MeSH and any relevant additional information (e.g., reason for your suggested change; citations to support) in the **Description** box.
- IV. Note that providing your Email will allow us to let you know what we did.

## Write to the Help Desk

Subject \*

First Name \*

Last Name \*

Email Address \*

Description: (Please include the NLM Product or Service you are writing about.) \*

Styles | Format | B I S | I<sub>x</sub> | ¶ | ☰ | ✂ | 📄 | 📁 | 📂 | 📅 | 📆 | 📇 | 📈 | 📉 | 📊 | 📋 | 📌 | 📍 | 📎 | 📏 | 📐 | 📑 | 📒 | 📓 | 📔 | 📕 | 📖 | 📗 | 📘 | 📙 | 📚 | 📛 | 📜 | 📝 | 📞 | 📟 | 📠 | 📡 | 📢 | 📣 | 📤 | 📥 | 📦 | 📧 | 📨 | 📩 | 📪 | 📫 | 📬 | 📭 | 📮 | 📯 | 📰 | 📱 | 📲 | 📳 | 📴 | 📵 | 📶 | 📷 | 📸 | 📹 | 📺 | 📻 | 📼 | 📽 | 📾 | 📿 | 📀 | 📁 | 📂 | 📃 | 📄 | 📅 | 📆 | 📇 | 📈 | 📉 | 📊 | 📋 | 📌 | 📍 | 📎 | 📏 | 📐 | 📑 | 📒 | 📓 | 📔 | 📕 | 📖 | 📗 | 📘 | 📙 | 📚 | 📛 | 📜 | 📝 | 📞 | 📟 | 📠 | 📡 | 📢 | 📣 | 📤 | 📥 | 📦 | 📧 | 📨 | 📩 | 📪 | 📫 | 📬 | 📭 | 📮 | 📯 | 📰 | 📱 | 📲 | 📳 | 📴 | 📵 | 📶 | 📷 | 📸 | 📹 | 📺 | 📻 | 📼 | 📽 | 📾 | 📿 | 📀

# When to Request a New MeSH Term

Submit a request for a new MeSH to express:



- A frequently recurring concept
- A more general or specific concept than is covered by the available MeSH vocabulary

# When to Request a New MeSH Term

Submit a request for a new MeSH to express:



- A concept which currently requires two or more headings
- A concept which has been or is likely to be handled inconsistently by different catalogers

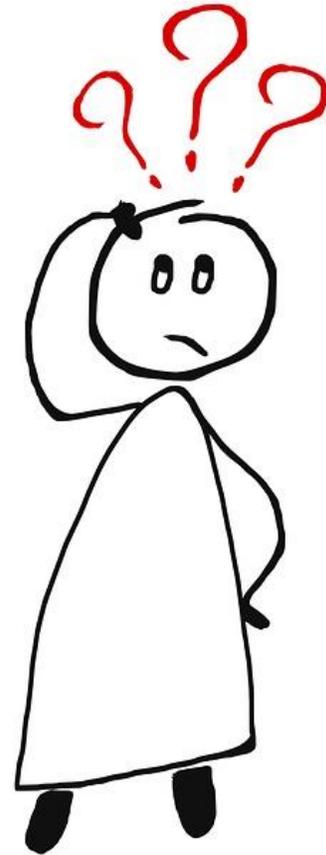
# When to Submit Changes to MeSH

Changes may be requested for any element of the MeSH record. For example:



- Main descriptor to represent more current or common usage
- Addition of cross references or Entry Terms (ET)
- Add or delete qualifiers as needed

Questions?



# More About MeSH

- See [MeSH Home](#)
- For news, see the [NLM Technical Bulletin](#)



# More about Cataloging

See the Cataloging and Metadata Management Section [homepage](#).

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3. Click My Learning on the blue bar near the top of the page
4. Enter the enrollment code  click Redeem, then Claim
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