Searching the Medical Literature for Medical Imaging Applications & Analysis

MDSC 689.11

HELEN LEE ROBERTSON

UNIVERSITY OF CALGARY HEALTH SCIENCES LIBRARY

JANUARY 8 2018
Objectives

By the end of this session, you will be able to:

Access appropriate library resources for research questions
Turn your research question into a literature search
Search using Ovid MEDLINE’s Advanced Search
Use EndNote to manage your literature search results
Research Guides

Medical Imaging

https://library.ucalgary.ca/guides/imaging

Citation management tools

http://libguides.ucalgary.ca/hsl/citationmanagementtools
Medical Imaging Guide

https://library.ucalgary.ca/guides/imaging

Welcome!
This guide is to provide medical imaging graduate students with the following information needs:

- Provide guidance and advice regarding literature searching for research
- Book an orientation or library instruction session
- Conduct comprehensive literature searches, including systematic reviews, for faculty/staff research projects

Please feel free to contact me for any of the above or to suggest ways to improve this guide.

Medical Imaging News - Science Daily

- **Preterm infants have narrowed upper airways, which may explain higher obstructive sleep apnea risk**
  Dec 23, 2017
  A multidisciplinary team used MRI to determine that the risk factors that lead to obstructive sleep apnea are confined to the uppermost airway and do not appear to be explained by enlarged adenoids and tonsils.

- **Revised ‘McDonald criteria’ expected to speed the diagnosis of multiple sclerosis**
  Dec 22, 2017
  The McDonald Criteria for the Diagnosis of Multiple Sclerosis have just been revised in hopes of speeding diagnosis and reducing the chance of misdiagnosis.

- **Tiny Australian rainbow peacock spiders may inspire new optical technologies**
  Dec 22, 2017
  Even if you are arachnophobic, you probably have seen pictures or videos of Australian peacock spiders (Maratus spp.). These tiny spiders are only 1-5 mm long but are famous for their flamboyant courtship displays featuring diverse and intricate body colorations, patterns, and movements.
Convert Your Research Question Into a Literature Search

Write down your question in one sentence
Highlight the key concepts (they will be the search terms)
Brainstorm related terms to search for each concept
Keep running list of terms found

<table>
<thead>
<tr>
<th>Concept 1</th>
<th>Concept 2</th>
<th>Concept 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>
How to combine concepts

Use **OR** to create a large set of synonyms

Use **AND** to find articles containing all of your concepts

Use **NOT** to remove a known undesired concept or set

**OR**  = More  (doctors OR physicians OR clinicians)

**AND** = Less  (physicians AND e-learning)

**NOT** = Less  (e-learning NOT google) (Set 1 NOT Set 2)
Boolean operator – OR

Use OR to connect synonyms/related concepts to find references that contain EITHER terms

Capitalize OR to indicate it is being used as an operator

- White matter
- Nerve fibers

OR
Boolean operator – AND

- Use AND to combine DIFFERENT concepts to retrieve records where BOTH terms are found.
- Capitalize AND to indicate it is being used as an operator.
Brainstorming for Synonyms

Synonyms – doctor/physician/clinician

Related – ulcer/Helicobacter pylori

(also consider antonyms – fertility/infertility)

Alternate spellings – analyze/analyse, fetus/foetus,

Alternate endings – diabetes/diabetic/diabetics/etc

Same or similar meanings – prenatal/antenatal

Acronyms and full spellings – ADHD/attention deficit hyperactivity disorder

Hyphenated or unhyphenated – co-infection/coinfection

Generic and brand names for medications – Tylenol/acetaminophen
How does white matter structure in the brain relate to reading skills in children?

<table>
<thead>
<tr>
<th>White matter</th>
<th>Reading skills</th>
<th>Children</th>
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<tbody>
<tr>
<td>White matter</td>
<td>Reading skill(s)</td>
<td>Child</td>
</tr>
<tr>
<td>OR</td>
<td>OR</td>
<td>OR</td>
</tr>
<tr>
<td>Nerve fiber(s)</td>
<td>Reading development</td>
<td>School-age</td>
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<tr>
<td>OR</td>
<td>OR</td>
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<td>...</td>
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</table>
OR = More  (white matter OR nerve fibers)
AND = Less  (white matter AND reading skill)
Intelligence

Dweeb

Social Ineptitude

Nerd

Geek

Dork

Obsession
Biomedical Databases

MEDLINE/PubMed
  Key biomedical database; PubMed is keyword search version, MEDLINE defaults to subject heading (MeSH) searching

EMBASE
  ◦ Specializes in drug literature (safety, toxicology, adverse reactions, and pharmacology)

Cochrane Database of Systematic Reviews
  ◦ Includes systematic reviews and protocols

CINAHL
  ◦ Nursing and allied health, health care
Specialized Databases

Engineering
- Compendex (All Engineering Disciplines, 1970-)
  - 15.8 M records; journal articles, conference proceedings, trade magazines
- IEEE Xplore (Electrical Engineering, Computing Science, 1872-)
  - Fulltext IEEE journal articles, e-books, standards

Kinesiology and Sports Medicine
- SPORTDiscus (1892-)
  - Sports medicine, including nutrition, physical therapy, occupational health, exercise physiology, kinesiology

Psychology
- PsycINFO (1880s-)
  - Journal articles, books, dissertations on psychology and related fields
Large Interdisciplinary Databases

- **Google Scholar (?)**
  Articles, theses, books, abstracts for academic publishers, professional societies, online repositories, may provide fulltext

- **Scopus (1996-present)**
  Journals, conference papers, book series, patents
  Health sciences, physical sciences, social sciences, life sciences

- **Web of Science (1899-present)**
  Citation and abstract database for journals and conference proceedings
  Physical sciences, life sciences, health sciences, social sciences, humanities
Preprint Archives

- arXiv
  Open access to e-prints in physics, computer science, quantitative biology, electrical engineering

- bioRxiv
  Online archive for unpublished preprints in the life sciences

- F1000Research
  Open research platform for immediate publication of articles; has article processing charge

- preprints.org
  Journals, conference papers, book series, patents
  Health sciences, physical sciences, social sciences, life sciences
The Search Process

This represents the iterative nature of the search process. Some steps may require several attempts. It may be necessary to conduct an initial search, view some records, redefine the question, modify the search strategy, or select a different database to search.

### This search term available as MeSH

- Scarlet Fever
- Trench Fever
- Typhoid Fever
- Uveoparotid Fever
- Yellow Fever
- Yellow Fever Vaccine
- Yellow Fever Virus

- fever mp. search as Keyword
MeSH HEADING: FEVER

SCOPE: An abnormal elevation of body temperature, usually as a result of a pathologic process.

NOTE: /ther = treatment of FEVER; differentiate from FEVER THERAPY see HYPERTERMIA, INDUCED ( = high body temp induced to treat dis); /chem ind: consider also HYPERTERMIA, INDUCED or PYROGENS

REFERENCES:

See Related:
ANTH-INFLAMMATORY AGENTS
ANTI-INFLAMMATORY AGENTS, NON-STERoidal
HEAT-SHOCK PROTEINS
HYPERTERMIA, INDUCED
MALIGNANT HYPERTERMIA
PYROGENS

Used For:
fever
fevers
hypertermia
hypertermias
pyrexia
pyrexias

Used For terms may be useful in keyword searches
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<tr>
<th>Select Term(s)</th>
<th>Subject Heading</th>
<th>Hits</th>
<th>Explode</th>
<th>Focus</th>
<th>Scope Note</th>
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</table>
* = truncation symbol for any characters
.mp = multi-purpose search (title, original title, abstract, subject heading, name of substance, registry word)
.tw = title & abstract (also expressed as .ti,ab)
.kf = author supplied keyword
Search all relevant subject headings (MeSH) and keywords for each concept
Combine searches using OR
MeSH term may appear in multiple branches of Tree
See Full Tree for context and possibly additional MeSH suggestions to search
### Tree for Acetaminophen

**Database:** Ovid MEDLINE(R)

**Select Term(s)**

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</table>
Search each concept separately, combine terms with OR
Search sums of each concept at end, combine with AND
Set 17: fever AND acetaminophen AND ibuprofen searches = 311 results  
Set 18: limit to English language = 275  

Set 19: using All Child limit = 183 results  
Set 23: fever AND acetaminophen AND ibuprofen AND using keywords to describe child = 209  

Fewer results in set 19 than 23 since Child limit only searches MEDLINE records  
Only limit that searches all database records is English language
You must login to a Personal Account to access this feature.

Personal Account Login

Personal Account Name: [Field]

Password: [Field]

Login

Don't have an Account?

Use a Personal Account to save searches, create alerts and manage research.

Create Account

Forgot Account Name or Password?
Personal Account Name: 

Password: 

Confirm Password: 

Personal Title: Please Select ▼

First Name: 

Last Name: 

Job Title: 

Job Function: 

Institution Name: 

Institution Address: 

City: 

State: 

Country: 

Institution Type: 

Email Address: 

Create

Commitment to Data Security
Your personally identifiable information is kept secure. Only authorized employees, agents and contractors (who have agreed to keep this information secure and confidential) have access to this information.

Privacy Contact Information
If you have any questions, concerns, or comments about our privacy policy you may contact our support department.

Hints:
- If you are not already logged into a Personal Account, creating a new account will log you into that account.
- Please note that Personal Account names and passwords are case-sensitive.
- The email address supplied for a Personal Account will be used only for account administration.
- Only one email address per Personal Account is permitted.
Shared neuroanatomical substrates of impaired phonological working memory across
   Lava SA; Santi M; Milani GP; Blanchetti MG; Simonetti GD.
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References > Find Duplicates to automatically find duplicate entries
The listing shows ALL multiple entries, not just the duplicate (so do not delete all these records)
Need to manually dedup after this step
Edit > Preferences… > Find Full Text

OpenURL Path: http://dc8qa4cy3n.search.serialssolutions.com

Authenticate With URL: http://ezproxy.lib.ucalgary.ca/login

URLs listed at: http://library.ucalgary.ca/guides/hsl/citationmanagementtools/ENwrite
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<td>MEDLINE</td>
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<td>196</td>
<td>Casteel-Van D...</td>
<td>1991</td>
<td>Management of childhood fever</td>
<td>Lancet</td>
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<td>MEDLINE</td>
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<td>94</td>
<td>Celebi, S.; Hacim...</td>
<td>2009</td>
<td>Antipyretic effect of ketoprofen</td>
<td>Indian Journal of Pediatrics</td>
<td>Journal Article</td>
<td>MEDLINE</td>
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</tbody>
</table>

DOI search to find full-text (DOIs introduced in 2000)
The first citation goes here (1). The next citations are (2-4)

Publishing Your Findings

Planning to publish in a journal?
- Review the intended journal for guidelines
- If no guidelines, review other articles in the intended journal

Looking for a journal to publish in?
- JANE (Journal/Author Name Estimator)
- JournalGuide
  [https://www.journalguide.com/](https://www.journalguide.com/)
Publishing Your Findings

Archiving Your Review

- Submit your systematic review to PRISM, U of C’s Institutional Repository
- Digital archive of the University's intellectual output
- PRISM manages, preserves and makes available academic works of faculty, graduate students, and research groups
  - [http://prism.ucalgary.ca](http://prism.ucalgary.ca)

Preprint Archives

- Post unrefereed manuscripts to be freely available online for distribution and feedback
Open Access

Open Access journals make their articles free for readers to access without subscription and licensing restrictions.

Open Access Authors Fund

- Pays processing fees for articles accepted for publication in open access journals
- [http://library.ucalgary.ca/open-access-authors-fund](http://library.ucalgary.ca/open-access-authors-fund)
Predatory Open Access Publishing

Think, Check, Submit Checklist

http://thinkchecksubmit.org/

Directory of Open Access Journals (DOAJ)

https://doaj.org/

Archive of Beall’s List of “Potential, possible, or probable predatory scholarly open-access publishers”

https://archive.fo/9MAAD

Google and Google Scholar have not filtered out content from predatory journals, unlike reputable databases
Contact

HSL Consult Office
Monday – Friday, 12:30 – 4:30 PM

HSL Service Desk
hslibr@ucalgary.ca
403.220.6855

Helen Lee Robertson
helen.lee.robertson@ucalgary.ca
403.220.3736
Evaluation Form

https://tinyurl.com/ycevlc3a
Thank You