Physician in the Community Pathway

LITERATURE SEARCHING & MCW LIBRARIES RESOURCES
Questions about....

• MCW Libraries resources/services
• Library on Request
• Connecting to resources
Becoming a lifelong, self-directed learner

• Rate of scientific information is growing exponentially

• What you learn today may not be relevant in the future

After this session, you will be able to:

• Understand the literature search process
• Know what a MeSH term is
• Comprehend the difference between AND and OR in a search
• Identify at least two databases to search for information
• Have an awareness of citation managers
The Literature Search Process

1. Define your research question
2. Describe your topic using keywords
3. Search for articles
4. Evaluate search results
5. Locate resources
1. Define your question – Gather background information

- **Demographic Information**
- **Site:.gov** search in Google
- Book chapters
  - [ClinicalKey](#)
  - [Books at MCW Libraries](#)
### 1. Define your question

Physical education programs

<table>
<thead>
<tr>
<th>Search results</th>
<th>Items: 1 to 200 of 7705</th>
</tr>
</thead>
</table>
| 1. **Physical activity counseling in primary care and family medicine residency training: a systematic review.**
  Watanapisit A, Tuangratananon T, Thanamee S.
  PMID: 29970092
| 2. **Education and Income Predict Future Emotional Well-Being of Whites but Not Blacks: A Ten-Year Cohort.**
  Assari S, Preiser B, Kelly M.
  PMID: 29966279
| 3. **Activity Patterns Associated With Health Status in Later Life Among Singaporeans.**
  Hong SI, Chokkanathan S, Rozario PA.
  PMID: 29962260
| 4. **Disability and coporeal (im)mobility: how interstate variation in Medicaid impacts the cross-state plans and pursuits of personal care attendant service users.**
  Grossman BR.
  PMID: 29962244
| 5. **Stand Tall-A Virtual Translation of the Qtego Exercise Program.**
  Shubert TE, Chokshi A, Mencias VM, Grier S, Buchanan H, Basnett J, Smith ML.
  PMID: 29966232
| 6. **A concerns report survey of physical activity support needs of people with moderate-to-severe MS disability and family caregivers.**
  Fakolaide A, Latimer-Cheung A, Persons T, Finlayson M.
  PMID: 29962237

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**Note:** The search results are a sample and may not reflect the actual search conducted.
1. Define your question - the PICO Model

- **P**atient/population
- **I**ntervention
- **C**omparison
- **O**utcome

Do physical education programs help to improve BMI in elementary school students?
2. Describe your topic using keywords

<table>
<thead>
<tr>
<th>Physical education</th>
<th>Physical education, gym</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMI</td>
<td>BMI, body mass index</td>
</tr>
<tr>
<td>Elementary school students</td>
<td>Elementary school, children</td>
</tr>
</tbody>
</table>
#considerthehashtag

**hash·tag**

/ˈhaSHtag/

**noun**
 plural noun: hashtags

(on social media sites such as Twitter) a word or phrase preceded by a hash or pound sign (#) and used to identify messages on a specific topic.

- spammers often broadcast tweets with popular hashtags even if the tweet has nothing to do with them
- the hash or pound sign (#).
  "Hunt mistook an @ for a hashtag while tweeting derogatory thoughts about him"
MeSH headings

• What is MeSH?
  – Controlled vocabulary used by PubMed/MEDLINE
  – Provides a consistent way to describe topics
    • Body Mass Index
  – MeSH terms are applied by subject specialists (people!) who scan each article
Boolean operators

<table>
<thead>
<tr>
<th>Operator</th>
<th>Diagram</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AND</strong></td>
<td><img src="image" alt="AND diagram" /></td>
<td>Narrows your search, use with different topics</td>
</tr>
<tr>
<td><strong>OR</strong></td>
<td><img src="image" alt="OR diagram" /></td>
<td>Broadens your search, use between synonyms</td>
</tr>
<tr>
<td>()</td>
<td><img src="image" alt="Grouping diagram" /></td>
<td>( ) narrows your search. Used to combine groups of terms and allows you to create a more complex search.</td>
</tr>
</tbody>
</table>
3. Search for articles

<table>
<thead>
<tr>
<th>Physical education</th>
<th>Physical education OR gym</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMI</td>
<td>BMI OR body mass index</td>
</tr>
<tr>
<td>Elementary school students</td>
<td>“elementary school”</td>
</tr>
</tbody>
</table>

(((Physical education OR gym)) AND (BMI OR body mass index)) AND "elementary school"
3. Search for articles - PubMed

• Developed by the National Library of Medicine (NLM), PubMed is the search system for the MEDLINE database.

• PubMed covers medicine, nursing, dentistry, health services research, the basic sciences, and more.

• It has 25+ million citations from 5500+ journals.

(((Physical education OR gym)) AND (BMI OR body mass index)) AND “elementary school”
Search results:

Items: 1 to 20 of 94

1. Enhancing Executive Functions Among Dutch Elementary School Children Using the Train Your Mind Program: Protocol for a Cluster Randomized Trial.
   PMID: 28880469 Free PMC Article
   Similar articles

2. Musculoskeletal Fitness Measures Are Not Created Equal: An Assessment of School Children in Corpus Christi, Texas.
   PMID: 29872650 Free PMC Article
   Similar articles

3. Systematic Review of Physical Education-Based Physical Activity Interventions Among Elementary School Children.

Filter your results:

- All (94)
  - Nursing Journals (12)
  - Randomized Controlled Trial (17)
  - Review (3)
  - Systematic Reviews (2)
  - Indexed for MEDLINE (82)
  - MCW Authors (1)
  - Diagnosis (9)
  - Therapy (28)
  - Etiology (67)
  - Prognosis (18)
  - Child/Pediatric (94)

Sort by:

- Best match
- Most recent

Titles with your search terms

Physical education in elementary school and body mass index (BMI) treatment. 2004

Find related data

Database: Select

Select items

Search Details
4. Evaluate your results

Impact of NFL PLAY 60 Programming on Elementary School Children's Body Mass Index and Aerobic Capacity: The NFL PLAY 60 FitnessGram Partnership Project.

Things to consider:
- Is my patient/population represented in the article?
- How current is the information?
- How was the data collected? Look at the methods section
- Have the same results been reached by other researchers?
5. Locate articles

- PubMed LinkOut
ClinicalKey – recommended resource

• Search **books** to find background information
• Search **articles** to find studies and research
• Search **guidelines, patient education, images** for more information.
Additional Resources

- **Physician in the Community LibGuide**
  - Find links to databases, journals, books, demographic information

- **ERIC**
  - Use this database to search for articles and other published information related to education.

- **CINAHL**
  - Search for literature from the nursing and allied health fields – including homecare health professionals, nutritionists and dieticians, speech pathologists, etc.
Citation Managers

• Organize citations and references
• Create bibliographies
Recap of the objectives:

• Understand the literature search process
• Know what a MeSH term is
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Questions?

Need help?
Contact MCW Libraries' Reference Desk

Please note that during the Libraries' open hours, staff are available and can provide assistance.

Email

For general inquiries, send us an email and we will respond within one business day.

Phone

Call: (414) 955-8302
Text: (414) 367-9629

Reference assistance

Get specialized assistance from an MCW Librarian.

- Request an appointment
- Request a literature search
- Request assistance on a systematic review