Welcome!
Bienvenue!
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Today (new or review?)

1. Getting Started
   ○ Global Sexual & Reproductive Health Research Guide

1. Going to the Source
   ○ Basics of searching the scholarly literature

   ○ Applying search basics to a major scholarly database
Evidence based process:
Matching information resource to information need

Clinical setting: 5As Step EBP Process

ASK: Formulate the clinical question
ACCESS: Develop your strategy and track down the best evidence
APPRAISE: Appraise the evidence for its validity and usefulness
APPLY: Integrate the results with your clinical expertise and your patient values/local conditions
ASSESS: Evaluate the effectiveness of the process

Research setting: 5As Step EBP Process

ASK: Formulate the research question
ACCESS: Develop your strategy and track down the best evidence
APPRAISE: Appraise the evidence for its validity and usefulness
APPLY: Integrate the results into your project/proposal
ASSESS: Evaluate the effectiveness of the process

Global SRH Research Guide

- An ongoing reference resource
Going to the Source: Literature Search Process

1. Establish research question
2. Select resources to use
3. Concepts and keywords
4. Organize your search strategy
5. Run your search
6. Evaluate your results (revise search strategy)
7. Select and organize articles
1. The Research Question

The comprehensive literature search begins with a clearly defined and focused research question

- Develop your strategy
- Know and Identify the appropriate information sources

1. The research question:

How does violence affect mental health?

-Possibly too broad

How does a diagnosis of HIV during pregnancy impact the risk of IPV in Low/Middle Income Countries?

-Possibly too narrow

How does experiencing domestic violence during pregnancy impact maternal mental health?

-Just right

2. resources

- Books
- Databases (journals, articles, etc.)
- Grey literature
- Datasets
- Experts

3. concepts and keywords

How does experiencing domestic violence during pregnancy impact maternal mental health?
How does experiencing domestic violence during pregnancy impact maternal mental health?

<table>
<thead>
<tr>
<th>Main</th>
<th>Synonym 1</th>
<th>Synonym 2</th>
<th>Synonym 3</th>
<th>Synonym 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Domestic violence</td>
<td>Intimate partner violence</td>
<td>IPV</td>
<td>Gender-based violence</td>
<td></td>
</tr>
<tr>
<td>pregnancy</td>
<td>pregnant</td>
<td>maternal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mental health</td>
<td>Mental illness</td>
<td>depression</td>
<td>Depressive disorder</td>
<td></td>
</tr>
</tbody>
</table>

4. Organize your search

- Figure out which terms to include and how to combine your concepts and keywords
- Document your searches to make revisiting or editing them in the future easier

For example:

(domestic violence OR IPV OR gender based violence) AND (pregnancy OR pregnant) AND (mental health OR depression)

4a. Document your search

- Database
- Search terms
- Filters used
- Number of results
- Date searched

- Describe the search strategy in sufficient detail so that it can be replicated

5. Run your search / 6. Evaluate your results

- Scan your results to evaluate relevancy
  - Are the articles on target?
  - If not, review your results and look for ways to improve your search
  - Have you combined your search terms correctly?
  - Revise and rerun your search
- Searching is an iterative (ongoing) process...
Searching is iterative!
Review your results.
Revise your search.
Rerun your search.
Repeat.

6a. revise (with limits)

- You may find limiting your search to publication types helpful:
  - Only want to see the highest levels of evidence?
    - Limit to “Systematic Reviews”
  - Want to see individual studies?
    - Possibly limit to “Clinical Trials” or “Case Reports”

6a. Revise (Resources)

- There may be a database better suited to your question
- Perhaps you are looking for background information rather than research

7. select and organize articles

- Select the relevant articles
- Save the citations
  - Organize in a meaningful way:
    - By publication type? By author? Study types?
    - Add notes
  - There is no perfect way to organize them
- Save within the database or use citation management tool like EndNote or Zotero

searching with phrases

Your search: heart attack
Article title:
High-dose atorvastatin and risk of atrial fibrillation in patients with prior stroke or transient ischemic attack. (American Heart Journal)

Your search: “heart attack”
Article title:
Study links drugs for Alzheimer’s disease with reduced risk of heart attack and death.
Searching is iterative! Review your results. Revise your search. Rerun your search. Repeat.

Going to the Source: Scholarly Databases

Getting started (some sources):

- PubMed
- Google Scholar
- Global Index Medicus
- Cochrane Library
- AJOL: African Journals Online

Photo caption: Local boys wait to pump water in Midnapore, India. © 2015 Krishnasis Ghosh, Courtesy of Photoshare

Links:

Global Index Medicus

Regional Indexes Medicus

Cochrane Library
Databases: Practice questions for your consideration

What is the impact of food insecurity on breastfeeding?

How is access to women’s health care impacted in refugees camps? Specifically, I want to focus on scholarly literature from the last 10 years.

What are patient provider attitudes towards gender identity in health care?

I am looking for articles on menstruation and cultural practices. I want to only view scholarly articles from the last 10 years.

Searching: PubMed Basics

the research question

What is the association between retinopathy and diabetes in pregnancy?

What is the association between retinopathy and diabetes in pregnancy?

Concepts and Keywords: Building the Search

<table>
<thead>
<tr>
<th>Concepts</th>
<th>Alternate Words</th>
</tr>
</thead>
<tbody>
<tr>
<td>retinopathy</td>
<td>retinal diseases, retina</td>
</tr>
<tr>
<td>diabetes</td>
<td>glycemic control, blood glucose, hyperglycemia, glucose intolerance, HbA1c</td>
</tr>
<tr>
<td>pregnancy</td>
<td>pregnant, gestation, obstetric, pregnancy complications, gestational diabetes</td>
</tr>
</tbody>
</table>

Boolean Operators

OR = More results
Combine Synonyms

AND = Specific
Combine different Concepts

(retinopathy OR “retinal diseases” OR retina) AND (diabetes OR “glycemic control” OR “blood glucose” OR hyperglycemia OR “glucose intolerance” OR HbA1c) AND (pregnancy OR pregnant OR gestation OR obstetric OR “pregnancy complications” OR “gestational diabetes”)
(retinopathy OR "retinal diseases" OR retina) AND (diabetes OR "glycemic control" OR "blood glucose" OR hyperglycemia OR "glucose intolerance" OR HbA1c) AND (pregnancy OR pregnant OR gestation OR obstetric OR "pregnancy complications" OR "gestational diabetes")

Review the results for additional terminology

Another way: Use Advanced Search to combine your searches