Locating Evidence-Based Practice Literature: Using a combined database searching approach

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Introduction

This presentation will provide guidance in locating research-based literature using PubMed and other single databases located on the Mercy Medical Center North Iowa Library Nurse Residency Resources Guide website:

http://libguides.mccn.edu/nurseresidency
*Password: mmcni

Included in this presentation will be:

✓ A brief overview of selected databases for finding Evidence-Based Practice literature
✓ Defining your topic and creating a search strategy using a P.I.C.O. question
✓ Using “filters” from single databases to locate Evidence-Based Practice literature
✓ Evaluating articles to determine their relevancy to your topic
Where are the resources?

http://libguides.mccn.edu/nurseresidency
Accessing Databases

Under the “Databases” tab are links to high-quality databases, including, CINAHL, PubMed, and more.

Nurse Residency Program Resources Guide: Databases

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- **CINAHL** - CINAHL Plus® with Full Text is the world's most comprehensive source of full text for nursing and allied health journals. CINAHL Plus with Full Text is the definitive research tool for all areas of nursing and allied health literature.

- **Lexicomp** - Lexicomp Online is a collection of clinical databases and clinical decision support tools that provides users with an extensive medical library.

- **Lippincott Advisor** - clinical support database that includes diagnosis/treatment tools, care planning, patient teaching and quality and safety initiatives.

- **Lippincott Procedures** - clinical database that provides access to procedures and skills in a variety of medical specialty settings.

- **PubMed** - A database of citations and abstracts for biomedical literature from MEDLINE and additional life science journals. Links are provided when full text versions of the articles are available via PubMed Central or other websites.
"In our Nursing Unit, we have several patients with recurring Clostridium difficile (C-diff) infection. We've heard from nurses from a nearby hospital that specific antibiotics are a safe and durable treatment therapy for recurrent C-diff. We've also heard that nonantibiotic therapies, such as fecal transplantation and active immunization are viable treatment options. We want to explore the best treatment therapies for our patients to see if we can decrease our high recurrence rates of C-diff."
Focusing Your Topic

Before searching databases, create a **P.I.C.O.** to help clarify and focus your clinical topic.

**Example of a P.I.C.O. format:**

<table>
<thead>
<tr>
<th>P- Patient population/problem</th>
<th>What patient population or problem are you trying to address?</th>
</tr>
</thead>
<tbody>
<tr>
<td>I- Intervention or issue of interest</td>
<td>What will you do for the patient or problem?</td>
</tr>
<tr>
<td>C- Comparison with another intervention or issue</td>
<td>Alternative (or placebo) to your chosen intervention? (optional)</td>
</tr>
<tr>
<td>O-Outcome of interest</td>
<td>What will be improved for the patient or problem?</td>
</tr>
</tbody>
</table>
Asking the PICO Question

“In patients with recurring C-diff, are antibiotics or nonantibiotic therapies (strategies) more effective in decreasing high recurrence rates of C-diff?”

<table>
<thead>
<tr>
<th>Patient Population</th>
<th>Intervention</th>
<th>Comparison</th>
<th>Outcome</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patients with recurring c-diff</td>
<td>Antibiotics</td>
<td>Nonantibiotic therapies/strategies</td>
<td>Decrease high recurrence rates of c-diff</td>
</tr>
</tbody>
</table>

Nurse Residency EBP Resources can be accessed here: http://libguides.mccn.edu/c.php?g=357675&p=2413454
Searching the Literature

Enter your P.I.C.O. terms in PubMed

Potential search terms ("Keywords"): clostridium difficile AND antibiotics

- **AND**: requires both terms to be in each result.
- **OR**: either term (or both) will be in the results. (Broadens the search)
- **NOT**: first term(s) are searched, then any records containing the term after the operators are subtracted from the results.
Your search results include multiple filter options and features.

The Filter Options menu is located on the left-side of your screen.
**Pubmed Article Types**

Under **Article Types** in the top left Filters menu, click on “More...” and you can limit your results to more focused evidenced-based practice articles.

You can narrow your search results to EBP articles, including **Systematic Reviews, Meta-analyses, Clinical Trials** and more.
Accessing Articles in *PubMed*

Select an article from your result list by **clicking the article title**.

You can access **Full Text** of the article in the top right corner.

**Fecal transplantation for recurrent Clostridium difficile infection in older adults: a review.**
Burke KE, Lamont JT.

**Patient attitudes toward the use of fecal microbiota transplantation in the treatment of recurrent Clostridium difficile infection.**
Zipursky JS, Sidorsky TI, Freedman CA, Sidorsky MN, Kirkland KB.

[Click for full text](#)
CINAHL Database

CINAHL indexes abstracts, and full text of the literature of nursing and allied health.

To limit your results to high-quality research articles, click the Research Article box and click the Evidence-based Practice box, then click “Search.”
Accessing Articles in CINAHL

Click on PDF Full Text to access the full-text article.

Click here to access the full-text article from MD Consult database.
Lippincott Advisor is a clinical support database that includes diagnosis/treatment tools, care planning, patient teaching and quality and safety initiatives.

Each word within the query is searched. The results are sorted by entities that contain the most or any of these words.

To see results in a specific topic, select the appropriate link in the left navigation menu.

Lippincott Advisor returns a list of results that contain your term(s) in the title or full text of a document.
Lippincott Procedures is a clinical database that provides access to procedures and skills in a variety of medical specialty settings.

Search results are listed by: procedures, skills checklists, quick lists, images, and videos.

To see results in one of these categories, click the appropriate link in the left margin.
Within each Lippincott database, you have the option to search across all Procedures and Advisor content. Type your keyword(s) into the search box. Select "All Procedures and Advisor Content" in the right side search drop-down list.

The search results screen will first display results for Lippincott Procedures and then, if desired you may select the Lippincott Advisor to view results.
Learn to recognize research-based articles and their contents.

Reviewing Articles

Even though abstracts provide detailed information, it is still necessary to analyze articles before determining if they meet your criteria.
Lending Weight to Publications

Use the “Evidence Pyramid” to help visualize the importance of publication types as they relate to the quality of evidence you find.
Nurse Residency Resources Guide

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Resources can be accessed under the Professional Resources tab and the EBP tab.
Additional EBP Resources

• **American Journal of Nursing**
  Collection of articles that provide nurses with the knowledge and skills needed to implement EBP consistently, one step at a time.

• **BOLTs (Brief Online Learning Tutorials - the LISTEN Project)**
  The List Project provides tutorials that will help you learn EBP concepts, use PICO to develop clinical queries, and identify EBP resources.

• **EBP: Evidence-Based Practice (University of Washington)**
  Your gateway to Evidence-Based Practice information from the University of Washington Health Sciences Libraries.

• **Introduction to Evidence Based Nursing**
  This guide provides an excellent introduction to Evidence-Based Nursing designed for professional nurses and nursing students.

• **National Nursing Practice Network**
  This network fosters nursing practice excellence, innovation, implementation science, and promotion of EBPs at all levels of the care continuum.