

Search Process Checklist

✓ Problem/Issue/Question:

EBP Process

EBP Inquiry Process Diagram

✓ Check to see if there is an established way of doing things:

<input type="checkbox"/>	Talked with faculty, and/or dentistry clinic experts	<input type="checkbox"/>	Checked for available protocols
<input type="checkbox"/>	Checked for available clinic policy	<input type="checkbox"/>	Checked for practice guideline and other databases:
<input type="checkbox"/>	Checked for systematic review/ meta-analysis on the topic.		
	<input type="checkbox"/> Cochrane Library		<input type="checkbox"/> National Guideline Clearinghouse
	<input type="checkbox"/> CINAHL		<input type="checkbox"/> Trip Database
	<input type="checkbox"/> PubMed		<input type="checkbox"/> The Dental Elf
			<input type="checkbox"/> DOSS

Stakeholders/Those Affected by Project: _____
(May Need to Talk with These People or Departments)

✓ PICO (Not applicable in all situations)

PICO Components	Describe PICO Components
P – Patient, Population, Problem, Program: Important Characteristics	
I – Intervention: Drug/treatment, diagnostic/screening test, exposure, etc.	
C – Comparison Intervention (If Applicable) Alternative being considered (placebo, std. therapy, no treatment, gold std.)	
O – Outcome What to measure, accomplish, improve, affect (reduced mortality/morbidity, improve quality of life, accurate & timely diagnosis)	
T– Type of Question	
T – Type of Study (See Pyramid on Page 2)	

♦ The type of question can help determine the type of study one should search for:

Type of Question	Best Type of Study
Therapy : How to select treatments to offer patients that do more good than harm and that are worth the efforts and costs of using them	Randomized Control Trial (RCT)
Prevention : How to prevent a disease or condition	RCT/ Cohort Study / Case Control
Prognosis : How to estimate the patient's likely clinical course over time and anticipate likely complications of disease	Cohort Study/ Case Control/ Case Series or Case Report
Diagnosis : How to select and interpret diagnostic tests	Blind RCT / Compared to Gold Standard (best treatment/test for diagnosis)
Etiology/Harm : How to identify causes for disease	RCT/ Cohort Study /Case Control
Cost analysis : Economic costs of all facets of a intervention or disease treatment	Economic Analysis

Users' guides to the medical literature :A manual for evidence-based clinical practice (2008). In Rennie D. (Ed.), McGraw-Hill Medical: McGraw-Hill Medical : New York.

✓ **Restatement of question using PICO components:** (*Needs to be answerable/measurable question*)

✓ **Search Terms/Concepts ([Background Information](#)):**

[Search for Background Information; Review related articles and other resources to come up with alternative terms or concepts.](#)
([ex: DOSS, Medline Plus, PubMed Clinical Queries, First Consult, Google Scholar, etc.](#))

	Primary Search Term	Synonyms/ Related Concepts (Other Ways to Describe)
P		
I		
C		
O		

<input type="checkbox"/>	Contact a librarian to discuss search strategy, possible databases and other aspects of the literature search. Contact: Irene Lubker Email: imlubker@vcu.edu
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✓ **What types of study designs should be included in the search?**

Start search by trying to find evidence at the top of the pyramid & working downward

Links for Definitions of the following:

[Practice Guideline](#)
[Systematic Review](#)
[Meta-Analysis](#)
[Integrative Review](#)
[Review Article](#)
[Protocol](#)

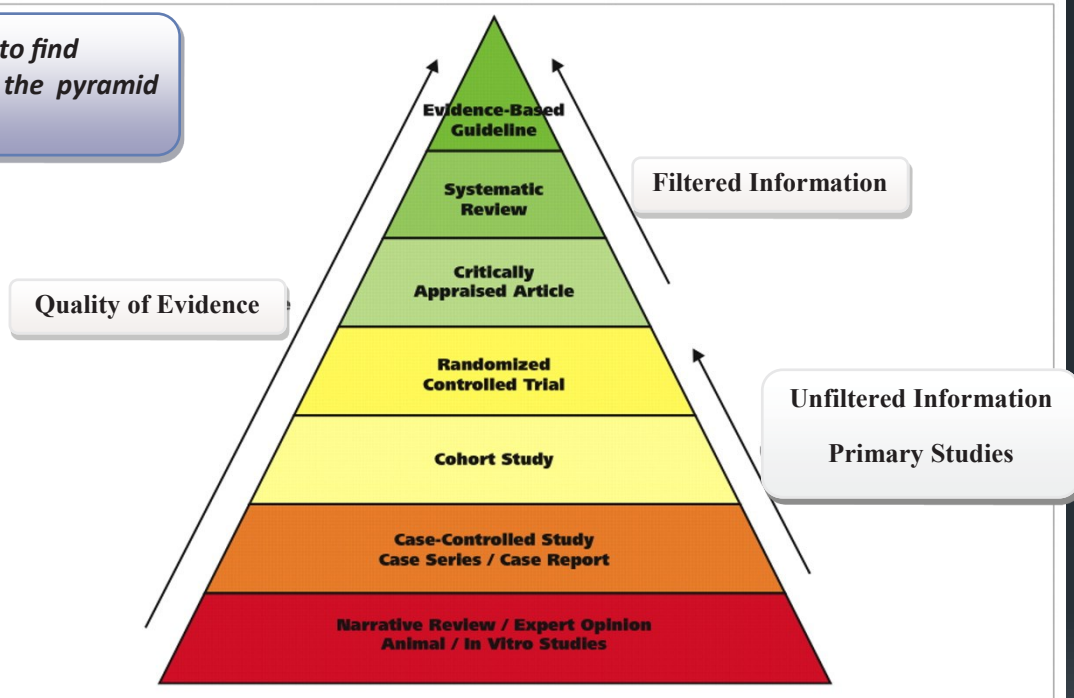


Figure. The evidence pyramid displays the quality of evidence according to type of study. "Quality" refers to the likelihood of predicting what would occur in one's own practice (and the least probability of bias). Guidelines explicitly based on this evidence pyramid offer clinicians a simplified mechanism for obtaining and potentially using the knowledge identified in this pyramid. Conversely, the lowest level of evidence, with the least likelihood of predicting what would occur in one's practice (and the highest probability of bias), can provide useful background information (such as laboratory and animal studies, cross-sectional epidemiologic studies, and expert opinion or narrative reviews). "Filtered information" is so-called secondary research. These reports systematically search for, critically appraise, distill and present the results of primary research, called here "unfiltered information." Adapted from Harvey Cushing/John Hay Whitney Medical Library, Yale University.²

Niederman, R. et al. JADA 2011;142:4:364-367



✓ **Possible Limits to be Applied:**

Gender: ____ Male ____ Female Species: ____ Humans ____ Animals	Age Groups: <i>(may differ by database)</i> <div style="display: flex; justify-content: space-between;"> <div> ____ All Ages ____ Newborn (< 1 month) ____ Infant (1 - 23 months) ____ Pre-School (2 - 5 yrs.) ____ Child (6 - 12 yrs.) </div> <div> ____ Adolescent (13—18 yrs.) ____ Adult (19 - 44 yrs.) ____ Middle aged (45 - 64 yrs.) ____ Elderly (65 - 79 yrs.) ____ Aged (> 80 yrs.) </div> </div>
Years to be Covered:	Languages: English Only Other Languages: _____

✓ **Known Authors/Researchers in the Field**

1)

2)

✓ **Relevant Citations:**

Authors _____ Title _____
 Source Title _____ v. _____ no. _____ date _____

Authors _____ Title _____
 Source Title _____ v. _____ no. _____ date _____

♦ *If you find a good article, search for it in PubMed, CINAHL or another database that has a controlled vocabulary and see how it is indexed. This will allow you to find terms that may be useful to find articles on the same topic.*

✓ **Useful Terms and Databases Searched (Controlled Vocab Terms & Keywords)**

Database/Source #1	Database/Source #2	Database/Source #3
_____	_____	_____



✓ Appraisal of the Literature: Is There Adequate Evidence?

Proceed with Evidence Based Practice Project

- **Next Steps:**

- ◇ Finalize team members & schedule meeting
 - Time of Initial Meeting: _____
 - Team Members:
 1. _____
 2. _____
 3. _____
- ◇ Assess translation of evidence into practice setting
- ◇ ***Gather Pre-Intervention/ Pre-Project Data***
- ◇ Create Action Plan to Implement Change
- ◇ ***Gather Post Intervention/Project Data***
- ◇ Evaluate Outcome
- ◇ Report Results to Decision Makers
- ◇ Adopt Change & Identify Next Steps
- ◇ Disseminate

EBP Inquiry Process Diagram

____ Yes

Proceed with a Research Project

- **Next Steps:**

- ◇ Find or Be Assigned Mentor
- ◇ Formulate IRB Proposal and Submit for Approval - [VCU IRB Link](#)
- ◇ Collect Data (*Pre and Post*)
- ◇ Analyze Data
- ◇ Determine Impact or Outcome of Study
- ◇ Disseminate

____ No



	Advantage	Disadvantage
Controlled Vocabulary (Subject Heading)	<ul style="list-style-type: none"> May provide terms that can broaden or narrow search Accounts for most common synonyms Retrieve all items in database indexed under the topic 	<ul style="list-style-type: none"> Recently coined terms may not have a subject term assigned Can be difficult to find if no list of subject terms is included in the database
Keyword	<ul style="list-style-type: none"> Retrieve synonyms, jargon, new or distinctive words Identify relevant articles quickly to find appropriate controlled vocabulary 	<ul style="list-style-type: none"> May retrieve irrelevant articles Your search must account for synonyms and alternative terms

♦ Tips & Reminders to Perform a Good Search

- ♦ Consider what you want to know & create a question to focus your search.
- ♦ Choose the database or resource that is the best to answer your question.
 - PubMed: Good resource when problem is medical in nature or if you are unsure where to start.
 - CINAHL: Good resource when problem falls within the scope of nursing & allied health practice.
 - DOSS: Indexes and abstracts for 160 dental journals, most with full-text available
- ♦ Search Concepts Separately & Combine with Boolean Operators – *Easier to manipulate your search.*
- ♦ Always come up with synonyms for your search terms/concepts
- ♦ Use Subject Headings/Controlled Vocabulary Whenever Possible.
 - Keyword Searching: Use quotes to search for phrases like “pressure ulcer”
- ♦ Start your search broad and then make it more focused as you see what is in the literature.

Finding Too Many Articles? Ways to Decrease/Focus Your Results	Not Finding Enough? Ways to Expand/ Increase Your Results
<ul style="list-style-type: none"> ♦ Do not explode ♦ Restrict subject heading to major focus ♦ Choose any relevant subheadings ♦ Utilize limits to English language, human subjects, review articles, etc. 	<ul style="list-style-type: none"> ♦ Explode whenever possible ♦ Do not restrict subject headings to major focus ♦ Do not choose subheadings ♦ Consider searching back in time, look at citations ♦ Consider doing a keyword search

♦ Boolean Operators:

AND Soda AND (tooth decay)	OR ((Dental Prostheses) OR (Dental Implants))	Not (hydrogen peroxide) NOT (Carbamide peroxide)
<p>Soda Tooth decay</p>	<p>Dental Prostheses Dental Implants</p>	<p>Hydrogen Peroxide Carbamide Peroxide</p>
Retrieves records that contain BOTH terms entered	Retrieves records that contain either ENTERED term	Retrieves records that exclude the term following the operator

Notes

Originally appeared in the following article:

McGrath, J. M., Brown, R. E., & Samra, H. A. (2012). Before You Search the Literature: How to Prepare and Get the Most Out of Citation Databases. *Newborn and Infant Nursing Reviews*, 12(3), 162-170.

