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# How To Do Literature Search? “Summary”

KSU COLLEGE OF MEDICINE  
2019 - 2020

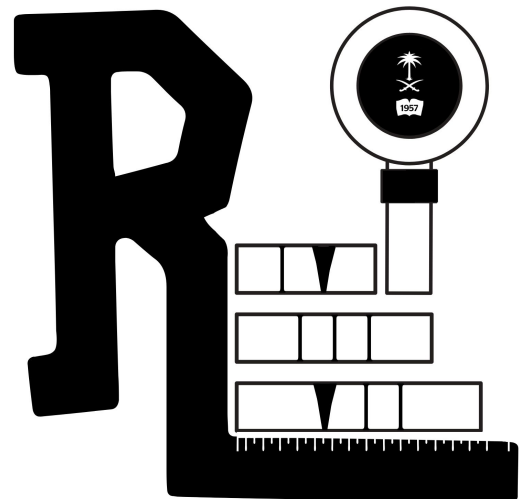
## ACKNOWLEDGMENTS

DONE BY:

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Special thanks to:

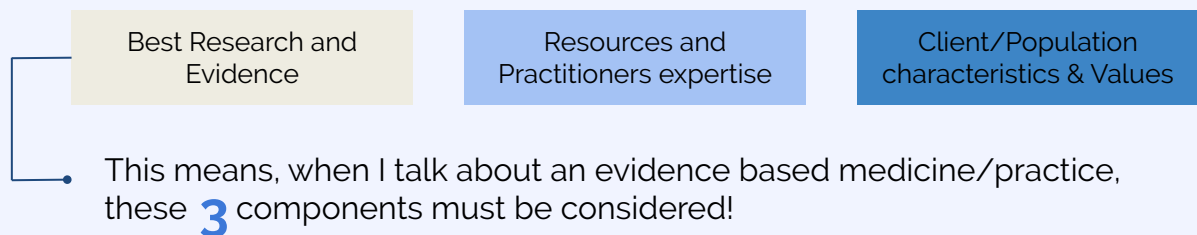
SARA ALENEZY



# EBM Process

## Evidence Based Practice:

**Evidence based practice (EBP) involves the following:**



### The 5-step EBM Process:

ASK	ACQUIRE	APPRAISE
<p>You start by asking a question! You will start with a very basic and broad question which we call a <b>Background question (usually asked by novices)</b>, then you will specify it more and limit it to have your <b>Foreground question (usually asked by an expert)</b></p>	<p>Your question is ready for your investigation and this begins with <b>searching for information relevant to your topic</b>. Several engines helps you to seek these information;  <b>1-Cochrane Library</b>  <b>2-PubMed</b>  <b>3-Saudi Digital Library</b></p>	<p><b>Critical Appraisal key elements:</b></p> <ol style="list-style-type: none"> <li>1-Reference or ID number (for quick access to the record being appraised)</li> <li>2-Study design (strength of evidence of the data; RCT is the highest)</li> <li>3-Participants (how many)</li> <li>4-Characteristics of the problem within the population</li> <li>5-Intervention outcomes</li> <li>6-Include or Exclude the study, this is based on your findings!</li> </ol> <p><b>Key Elements of high quality articles:</b></p> <ol style="list-style-type: none"> <li>1-Peer reviewed Journal</li> <li>2-Currency</li> <li>3-Clearly recognized research question or problem</li> <li>4-Study design (which is the higher evidence)</li> <li>5-Times cited (doesn't reflect how good is the article)</li> </ol>
APPLY	ASSESS	

# EBM Process

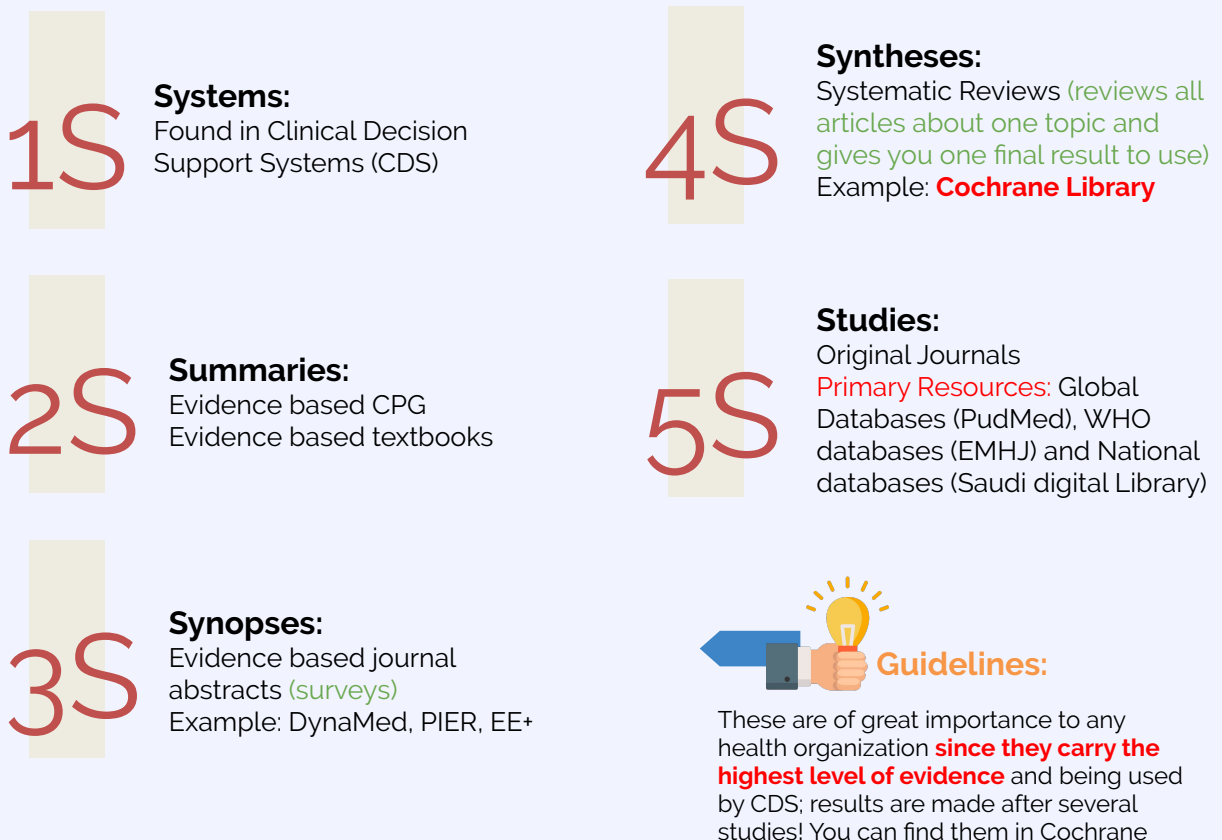
## Hierarchy Of Evidence:

(This is important for step 2 -Acquire- )

### Levels of Evidence:



### Haynes' 5S pyramid of EBM resources:

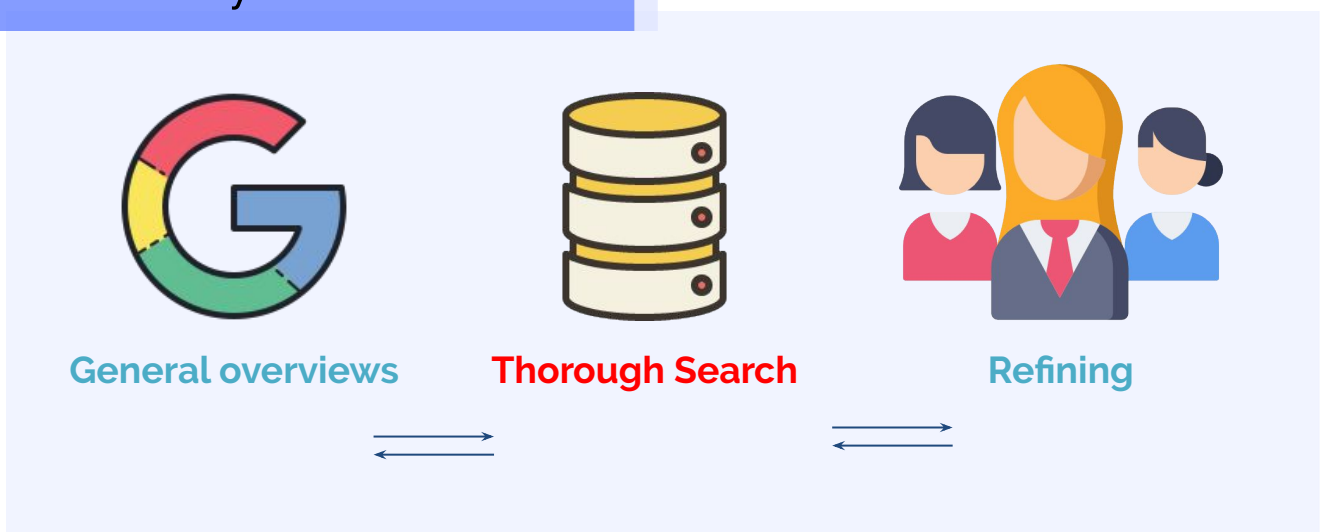


# EBM Resources

## Cochrane vs PubMed:

Cochrane	PubMed
Advocated RCTs to inform healthcare practice (Published and unpublished)	Reviews clinical effectiveness research. It is a database
Regularly updated	Provides an access to MedLine
Research based evidence. <i>The best tool to search for the effect of something on something else</i>	MedLine is a database of indexes (With citations and abstracts)
Focus on intervention ( <i>mainly but not always</i> )	NLM indexes biochemical literature. Largest medical library
Minimum Bias (including and excluding is based on Explicit quality criteria)	-
Syntheses resource. Provides Plain Language Summary ( <i>Gives you the decision!</i> )	Studies resource

## How to start your search:



# EBM Resources

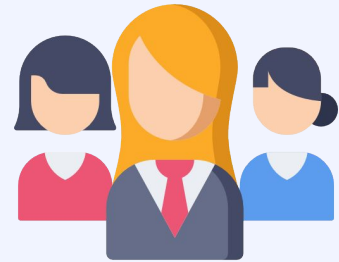
How to start your search:



General overviews



Thorough Search



Refining



## Steps of thorough Search

1-Prepare	2-Organize	3-Combine
It is about what we need to know about our topic and that's done by making a list of all the terms <b>connected</b> with our topic	1-Make a list contains <b>critical terms</b> to your search 2- <b>Exchange/add</b> some words if needed 3-Note any term that you <b>don't want to appear</b> 4- <b>Discard</b> the rest	Use <b>Boolean Operators</b> to combine our most important term. Use this operator wisely to get your desired results; you may get zero results and that because you either used in wrong way or nothing was found about your topic!

IMPORTANT!!!!!!



# LEAN OPERATORS!

**AND** Retrieves articles that contains ALL the term  
Narrows down the search

**OR** Retrieves articles with ANY of the terms  
Broadens the search

**NOT** Eliminates articles containing the SECOND term  
Narrows down the search

# Search!

## Metaanalysis:

- It is a statistical approach to combine the data derived from a systematic review
- Gives you one decision based on all previous studies; effective or not, use or not to use
- While the systematic review shows you all studies without providing you the final answer; no one answer, don't combine.

## MeSH indexing:

- Acronym for "Medical Subject Headings"
- Arranged in hierarchy, from more general to more specific
- Used by researchers
- It will give you fewer articles in your results pages by excluding categories you don't want to appear (Choose the category you have interest in)

## Keys to successful searching:

### 1-Indexes:

Identifying appropriate indexes through clinical questions

### 2-Components of 'well-built clinical questions' : PICO

- Patient/Problem
- Intervention
- Comparison intervention
- Outcome

## Summarizing the literature review:

### 1-Introduction:

Gives quick idea of the topic such as the central theme or organizational pattern

### 2-Body:

Contains your discussion of sources and is organized either chronologically, **thematically** or methodologically

### 3-Conclusions/Recommendations:

Discuss what you have drawn from the reviewing literature so far. Where might the discussion proceed?