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Objectives

- To explain the role of searching the literature in conducting research
- To recognize the levels of evidence
- To differentiate the EBM resources
- To identify where to search for evidence
- To prepare proper search terms
- To perform Boolean operators and MeSH indexing
- To conduct literature search for evidence using Pubmed and Cochrane
- To summarize the literature review for the IRB

Why searching a literature?

Staying

• Staying current with advances in medicine

Identifying

 Identifying information and ideas

Increasing

 Increasing your breadth of knowledge

Identifying

 Identifying seminal works in your area

Carrying

 Carrying on from where others have already reached

Avoiding

• Avoiding reinventing the wheel

Putting

• Putting your work into perspective



1	how much wo	vanced Search
	how much wood would a woodchuck chuck if a woodchuck could chuc	k wood 184,000 results
	how much wood	39,000,000 results
	how much working tax credit will i get	53,900,000 results
	how much working tax credit	74,000,000 results
	how much would i get for my car	145,000,000 results
1910 2	how much would an extension cost	9,460,000 results
dverti	how much would it cost to build a house	44,800,000 results
	how much wood could a woodchuck	158,000 results
	how much would my mortgage be	20,700,000 results
	how much working tax credit am i entitled to	452,000 results
5	NST _R	close

What is the first step in the evidence based practice process?

- A. Applying research to practice
- B. Acquiring available research and evidence
- C. Assessing the impact of change
- D. Asking a clinical question
- E. Appraising the research quality



Foreground Vs. Background EBM questions



Foreground OR Background?

• "What is malaria?"

 Are bed nets effective in lowering the incidence/prevalence of malaria in developing countries?



Where do you search for evidence?

- 1. ACP Clinical Guidelines and Recommendations
- 2. BMJ BestPractice / Clinical Evidence
- 3. ClinicalKey / MDConsult
- 4. Cochrane Library
- 5. DynaMed
- 6. Essential Evidence Plus
- 7. Google
- 8. Google Scholar
- 9. Medscape

- 10. PubMed
- 11. Saudi Digital Library
- 12. Skyscape
- 13. StatRef
- 14. TRIP Database
- 15. UpToDAte
- 16. Web of Knowledge
- 17. WebMD (Med-U)
- 18. Other







Oxford Centre for Evidence-based Medicine Levels of Evidence (May 2001)

Level	Therapy/Prevention, Aetiology/Harm	Prognosis	Diagnosis	Differential diagnosis/ symptom prevalence study	Economic and decision analyses
1a	SR (with <u>homogeneity*</u>) of RCTs	SR (with <u>homogeneity</u> *) of inception cohort studies; <u>CDR</u> ⁺ validated in different populations	SR (with <u>homogeneity</u> *) of Level 1 diagnostic studies; <u>CDR</u> ⁺ with 1b studies from different clinical centres	SR (with <u>homogeneity*</u>) of prospective cohort studies	SR (with <u>homogeneity</u> *) of Level 1 economic studies
1b	Individual RCT (with narrow <u>Confidence</u> Interval [‡])	Individual inception cohort study with <u>></u> 80% follow-up; <u>CDR</u> ⁺ validated in a single population	Validating** cohort study with <u>good+++</u> reference standards; or <u>CDR+</u> tested within one clinical centre	Prospective cohort study with good follow- up****	Analysis based on clinically sensible costs or alternatives; systematic review(s) of the evidence; and including multi-way sensitivity analyses
1c	<u>All or none§</u>	All or none case-series	Absolute SpPins and SnNouts ⁺⁺	All or none case-series	Absolute better-value or worse-value analyses ++++
2a	SR (with <u>homogeneity*</u>) of cohort studies	SR (with <u>homogeneity*</u>) of either retrospective cohort studies or untreated control groups in RCTs	SR (with <u>homogeneity*</u>) of Level >2 diagnostic studies	SR (with <u>homogeneity*</u>) of 2b and better studies	SR (with <u>homogeneity</u> *) of Level >2 economic studies
2b	Individual cohort study (including low quality RCT; e.g., <80% follow-up)	Retrospective cohort study or follow-up of untreated control patients in an RCT; Derivation of <u>CDR†</u> or validated on split- sample§§§ only	Exploratory** cohort study with <u>good+++</u> reference standards; <u>CDR+</u> after derivation, or validated only on split-sample§§§ or databases	Retrospective cohort study, or poor follow- up	Analysis based on clinically sensible costs or alternatives; limited review(s) of the evidence, or single studies; and including multi-way sensitivity analyses
2c	"Outcomes" Research; Ecological studies	"Outcomes" Research		Ecological studies	Audit or outcomes research
3a	SR (with <u>homogeneity</u> *) of case-control studies		SR (with <u>homogeneity</u> *) of 3b and better studies	SR (with <u>homogeneity*</u>) of 3b and better studies	SR (with <u>homogeneity</u> *) of 3b and better studies
3b	Individual Case-Control Study		Non-consecutive study; or without consistently applied reference standards	Non-consecutive cohort study, or very limited population	Analysis based on limited alternatives or costs, poor quality estimates of data, but including sensitivity analyses incorporating clinically sensible variations.
4	Case-series (and poor quality cohort and case-control studies§§)	Case-series (and poor quality prognostic cohort studies***)	Case-control study, poor or non-independent reference standard	Case-series or superseded reference standards	Analysis with no sensitivity analysis
5	Expert opinion without explicit critical appraisal, or based on physiology, bench research or "first principles"	Expert opinion without explicit critical appraisal, or based on physiology, bench research or "first principles"	Expert opinion without explicit critical appraisal, or based on physiology, bench research or "first principles"	Expert opinion without explicit critical appraisal, or based on physiology, bench research or "first principles"	Expert opinion without explicit critical appraisal, or based on economic theory or "first principles"

Haynes' 5S pyramid of EBM resources



Where do you search for guidelines?



Haynes' 5S pyramid of EBM resources



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Child head injuries could harm

Help

This service is unique: all citations (from over 120 premier clinical journals) are prerated for quality by research staff, then rated for clinical relevance and interest by at least 3 members of a worldwide panel of practicing physicians. Here's what we offer:

- A searchable database of the best evidence from the medical literature
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Home

Links to selected evidence-based resources

Hit Parade: The most often read articles in all disciplines, in the past 30 days

- Effectiveness of non-steroidal anti-inflammatory drugs for the treatment of pain in knee and hip osteoarthritis: a network metaanalysis. Lancet (*Review*)
- 2. Vaccines for preventing herpes zoster in older adults. Cochrane Database Syst Rev (Review)
- 3. Blood-Pressure and Cholesterol Lowering in Persons without Cardiovascular Disease. N Engl J Med (Original)

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Haynes' 5S pyramid of EBM resources



Systematic Reviews and Meta-analysis: Putting Results into Perspective



A statistical approach to combine the data derived from a systematic review.

What is Cochrane

- Archie Cochrane (1909-88)
 - British epidemiologist
 - Advocated RCTs to inform healthcare practice
- Cochrane collaboration
 - Cochrane Reviews (>4,000) registered
 - Identify, appraise and synthesise research-based evidence and present it in accessible format; regularly updated
 - Focus on interventions
 - Outstanding general resource



The School of Medicine, Cardiff University and the Cochrane Archive



Filtered and Critically Appraised EBM Resources

- The Cochrane Library by The Cochrane Collaboration via Wiley
 - Independent non-for-profit international collaboration
 - Reviews are among the studies of highest scientific evidence
 - Minimum Bias: Evidence is included/excluded on the basis of explicit quality criteria
 - Reviews involve exhaustive searches for all RCT, both published and unpublished, on a particular topic
 - Abstracts searchable for free on the Internet; complete database is available via OVID in SDL for all universities
 - 1995-

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Haynes' 5S pyramid of EBM resources



Primary Resources

Global databases

• (Cochrane, PubMed, Health PubMed, Ovid, Science Citations, grey literature, etc.)

WHO databases

 (global / regional): observatories; scientific journals (WHO Bulletin / EMHJ); surveillance; surveys; ICTRP; CPG, etc.

National databases:

• ENSTINET, SaudiMedLit; NCHS, CAPMAS; healthcare delivery institutions (websites, reports); clinical trials; grey literature, etc.



PubMed https://www.ncbi.nlm.nih.gov/pubm



PubMed is a database developed by the National Center for Biotechnology Information (NCBI) at the U.S. National Library of Medicine (NLM) available on the Web.

PubMed Health provides information for consumers and clinicians on prevention and treatment of diseases and conditions.

PubMed Health specializes in reviews of clinical effectiveness research, with easy-to-read summaries for consumers as well as full technical reports. Clinical effectiveness research finds answers to the question "What works?" in medical and health care. NLM is the worlds largest medical library

NLM has been indexing the biomedical literature since 1879

MEDLINE is a database of indexes (with citations and abstracts)

PubMed provides access to MEDLINE

PubMed database is more current and comprehensive than MEDLINE (it includes citations even prior to their indexing with MEDLINE)

What is PubMed?

Why PubMed ?

Over 20 million citations for biomedical literature from app. 5500 selected journals from over 70 countries

Source:

- MEDLINE (NLM database)
- Life science journals
- Online books

Fields:

- Medicine
- Nursing
- Dentistry
- Veterinary medicine
- Health care system
- Preclinical sciences



Where to start...?

- Internet search/Any search engine
- Guidelines review
- Database search Medline/PsycINFO
- Reference tracking-references in articles
- Expert contacts



More thorough search?

If you fail to plan, you plan to fail.

Ben Franklin

Prepare — Organize — Combine





What do we need to know about our topic? Make a list of all the terms connected with our topic.

Organize





Use Boolean operators to combine our most important terms

AND	Use AND to connect the terms we want to see.
NOT	Use NOT to exclude terms we don't want.
OR	Use OR to include similar terms.

Boolean Operators

BOOLEAN OPERATORS

Utilizing Boolean Operators when searching will provide better, and more accurate, results



MeSH indexing

- Acronym for "Medical Subject Headings"
- Similar to key words on other systems
- Used for indexing journal articles for MEDLINE
- Arranged in hierarchy, from more general to more specific
- Used by researchers



Tree of MeSH database All MeSH Categories Analytical, Diagnostic and Therapeutic Techniques and Equipment Category Therapeutics Phototherapy Color Therapy Heliotherapy Laser Therapy, Low-Level Photochemotherapy Hematoporphyrin Photoradiation Ultraviolet Therapy PUVA Therapy + Searching MeSH Term

S NCBI Resources 🖂	How To 🖂
MeSH	MeSH head injury
	Save search Limits Advanced
Display Settings: 🕑 Summa	iry Send to: 🗸
 Craniocerebral Tra Traumatic injuries in NERVES; MENINGES skull is penetrated (i hemorrhage. Year introduced: 2000(1 	wolving the cranium and intracranial structures (i.e., BRAIN; CRANIAL 3; and other structures). Injuries may be classified by whether or not the .e., penetrating vs. nonpenetrating) or whether there is an associated

Head Injuries, Closed

2. Traumatic injuries to the cranium where the integrity of the skull is not compromised and no bone fragments or other objects penetrate the skull and dura mater. This frequently results in mechanical injury being transmitted to intracranical structures which may produce traumatic

All MeSH Categories	
Diseases Category	
Nervous System Diseases	<u>5</u>
Trauma, Nervous S	System
Craniocere	bral Trauma
Brai	n Injuries
	Brain Concussion +
	Brain Hemorrhage, Traumatic +
	Brain Injury, Chronic
	Diffuse Axonal Injury
	Epilepsy, Post-Traumatic
\longrightarrow	Pneumocephalus
	Shaken Baby Syndrome
Cere	ebrospinal Fluid Otorrhea
Cere	ebrospinal Fluid Rhinorrhea
Con	na, Post-Head Injury
Crar	nial Nerve Injuries
	Abducens Nerve Injury
\rightarrow	Facial Nerve Injuries
	Optic Nerve Injuries
<u>Hea</u>	d Injuries, Closed
	Brain Concussion +
<u>Hea</u>	d Injuries, Penetrating
Intra	<u>icranial Hemorrhage, Traumatic</u>
	Brain Hemorrhage, Traumatic +
	<u>Hematoma, Epidural, Cranial</u>
\longrightarrow	<u>Hematoma, Subdural</u> +
•	Subarachnoid Hemorrhage, Traumatic
Skul	II Fractures
	Skull Fracture, Basilar
	Skull Fracture, Depressed



This will help you exclude all other diseases in that category

This will give you fewer articles in your results page!

Keys to Successful Searching

Indexes: Identifying appropriate indexes through clinical questions

Components of "well-built clinical questions.": PICO

- Patient/problem
- Intervention
- Comparison intervention
- Outcome

Try to make a search...

Case example

 A 45-year-old man presents with a 10month history of burning epigastric pain that has not improved with a protonpump inhibitor. Findings on upper endoscopy are normal, but *Helicobacter pylori serology is positive*.

Treat Helicobacter pylori or not?

• Try to make a search....

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Pu	b Med.gov PubMed Helicobacter pylori	Search
US N Natio	lational Library of Medicine nal Institutes of Health	dvanced He
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		All (30512)
Re	sults: 1 to 20 of 30512 <	>> Free Full Text (8069)
	Helicobacter pylori infection in neonatal mice prevents allergic asthma.	Review (5375)
1. 2.	Anmad N. Thorax. 2011 Sep 22. [Epub ahead of print] No abstract available. PMID: 21940493 [PubMed - as supplied by publisher] Related citations Clinical value of duodenal biopsies - Beyond the diagnosis of coeliac disease. Walker MM, Talley NJ.	Manage Filter Also try: helicobacter pylori infection helicobacter pylori eradication helicobacter pylori gastric cancer
	Pathol Res Pract. 2011 Sep 20. [Epub ahead of print] PMID: 21940106 [PubMed - as supplied by publisher] Related citations	helicobacter pylori diagnostic helicobacter pylori caga
3.	Motility and Chemotaxis in Campylobacter and Helicobacter. Lertsethtakarn P, Ottemann KM, Hendrixson DR. Annu Rev Microbiol. 2011 Oct 13;65:389-410. PMID: 21939377 [PubMed - as supplied by publisher]	Titles with your search terms Helicobacter pylori: gastric cancer and beyond. [Nat Rev Cancer. 201

Case example

Components of "well-built clinical questions"

- PICO
- 1. Patient/problem

- "non-ulcer dyspepsia"

2. Intervention

- "treatment of Helicobacter pylori infection"

- 3. Comparison intervention
- 4. Outcome

- "no treatment"
- "improve symptoms"



Case example

Components of "well-built clinical questions"

• PICO

- 1. Patient/problem
- 2. Intervention
- 3. Comparison intervention
- 4. Outcome

- "non-ulcer dyspepsia"
- "treatment of Helicobacter pylori infection"
- "no treatment"
- "improve symptoms"



Case example



Boolean Operators

AND

- Salmonella AND Hamburger
- Salmonella 69432
- Hamburger 2703
- Salmonella AND Hamburger 14



Boolean Operators

OR

- Football OR Hockey OR Soccer
- Football 3948
- Hockey 1466
- Soccer 3137
 - Total 7538



Boolean Operators

NOT

- Arthritis NOT Letter
- Arthritis 185375
- Letter 686049
- Arthritis "excluding" letter 176352

Quiz

Which is the correct strategy to find information on Zika virus and any of these countries Brazil, Mexico and the United States?

• Zika AND Brazil AND Mexico AND United States

Zika AND (Brazil OR Mexico OR United States)

• Zika OR (Brazil OR Mexico OR United States)



	S NCBI Resources (
	Publed.gov US National Library of Medicine National Institutes of Health	PubMed Helicobacter pylori AND non-ulcer dyspepsia RSS Save search Advanced
	Show additional filters	Display Settings: ☑ Summary, 20 per page, Sorted by Recently Added Send to: ☑
Filters	Text availability Abstract available Free full text available Full text available Publication	 Results: 1 to 20 of 626 <-> < First < Prev Page 1 of 32 Next > Last >> Prevalence of cagA EPIYA motifs in Helicobacter pylori among dyspeptic patients in northeast Thailand. Chomvarin C, Phusri K, Sawadpanich K, Mairiang P, Namwat W, Wongkham C, Hahnvajanawong C. Southeast Asian J Trop Med Public Health. 2012 Jan;43(1):105-15. PMID: 23082560 [PubMed - in process]
	dates 5 years 10 years Custom range Species Humans	 Related citations Helicobacter pylori cagL amino acid polymorphisms and its association with gastroduodenal diseases. Shukla SK, Prasad KN, Tripathi A, Jaiswal V, Khatoon J, Ghsohal UC, Krishnani N, Husain N. Gastric Cancer. 2012 Sep 1. [Epub ahead of print]

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Title, Abstract, Keywords	Otitis Media		Go Save
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Cochrane Reviews (39)	There are 39 results from 7530 records for	your search on 'Otitis Media in title ab	stract keywords in Cochrane Reviews
◎ All	Pages 1 - 25 26 - 39		Sort by Relevance 🐱
 Review Protocol 	Select all Export all Export selected		
 Other Reviews (37) Trials (1553) Methods Studies (28) Technology Assessments (19) Economic Evaluations (34) 	Adenoidectomy for otitis media in childr Maaike TA van den Aardweg , Anne GM May 2010	en Schilder , Ellen Herkert , Chantal WB Boona	cker and Maroeska M Rovers Review
Cochrane Groups (0)	Antibiotics for the prevention of acute and Amanda J Leach and Peter S Morris January 2011	d chronic suppurati∨e otitis media in childrer	1
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1	(30% failure in those receiving ceftriaxone and 27% in short-acting antibiotics administered for seven days or more) or azithromycin than seven days (18% failure in both those receiving azithromycin and short-acting antibiotics administered for seven days or more) respect to risk of treatment failure at one month or less. Significant reductions in gastrointestinal adverse events were observed for with short-acting antibiotics and azithromycin.	days n for less :) with r treatment	
1	Authors' conclusions		
	Clinicians need to evaluate whether the minimal short-term benefit from longer treatment of antibiotics is worth exposing children to course of antibiotics.	a longer	
I	Plain language summary Jump to	× ×	
20	Short course antibiotics for healthy children with uncomplicated acute otitis media		
Acute otitis media (AOM), or middle ear infection, is a common childhood illness, with more than half of all children having at least one infection by the time they are seven. Although otitis media often resolves without treatment, it is frequently treated with antibiotics. The ler of treatment varies widely. This review of 49 trials found that treating children with a short course (less than seven days) of antibiotics, compared to treatment with a long course (seven days or greater) of antibiotics, increases the likelihood of treatment failure in the short to the treatment seven one month later. The amount of gastrointestinal adverse events decreased with a shorter course of antibiotics.			
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Clinical Scenario

 Khalid is a 40 years old <u>smoker</u>, would like to <u>quit</u> <u>smoking</u>, he tried to do that, several times over the last two years, but he could not tolerate the withdrawal symptoms. Recently he read an article reporting that some <u>medications</u> can be used to help smoker to quit, he would like your advise about this issue!



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School-based programmes for preventing smoking

The Cochrane Collaboration ... Library School-based programmes for preventing **smoking**. Thomas R ... www.cochrane.org/reviews/en/ab001293.html - 11k

- Telephone counselling for smoking cessation
- ... Telephone counselling for **smoking** cessation. ... Plain language summary. Telephone
- counselling can help as part of a programme to help people stop **smoking**. **...**
- www.cochrane.org/reviews/en/ab002850.html 9k

Antidepressants for smoking cessation

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Hypnotherapy for smoking cessation

... Hypnotherapy for **smoking** cessation. ... There is not much evidence from trials about the effects of hypnotherapy for people trying to guit **smoking**. ...

www.cochrane.org/reviews/en/ab001008.html - 8k 👘

Interventions for smoking cessation in hospitalised patients Interventions for smoking cessation in hospitalised patients. Interventions Smoking cessation support provided during hospitalisation helps people stop smoking. Intervention www.cochrane.org/reviews/en/ab001837.html - 9k

Anxiolytics for smoking cessation

Internet 🕰

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Biomedical risk assessment as an aid for **smoking** cessation The Cochrane Collaboration ... Cochrane Library Biomedical risk

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bupropion use. Concerns that bupropion may increase suicide risk are currently unproven.

Authors' conclusions

The antidepressants bupropion and nortriptyline aid long term smoking cessation but selective serotonin reuptake inhibitors (e.g. fluoxetine) do not. The fact that only some forms of antidepressants aid cessation and that they do so regardless of depressive symptoms strongly suggests that their mode of action is independent of their antidepressant effect.

This is an abstract and plain language summary of a regularly updated, systematic review prepared and maintained by The Cochrane Collaboration. The full text of the review is available in <u>The Cochrane Library</u> (ISSN 1464-780X).

Exercise

Scenario: Professor X is teaching the Global Health course and asks that you write a descriptive five-page paper describing a program that has made a positive impact on one of the eight <u>2015 Millennium Development Goals</u> or on one of the many <u>Healthy People 2020</u> objectives.

How would you go about it?



Critical Appraisal Table – Key Elements **Reference or ID number:** the table must include a unique identifier for ease in finding the record being appraised.

Study Design: this helps with determining the strength of evidence of the data.

Participants: How many participants were in the study?

Characteristics of the problem within the population

Intervention outcomes.

Include or exclude the study? based on what you find

		Pop	ulation		
		# of Study	Charac-	Intervention Outcomes	
Reference	Study Design	Participants	teristics	Discussion	I or E
				Alternative forms of	
				tobacco consumption	
				including e-cigarettes	
			Brazilian	are discussed, and it is	
			pregnant	recommended that	
Bertani et	Cross-sectional		women, 25 of	additional studies are	
al, 2015	Study	61	whom smoked	needed.	
				Clinicians should advise	
		11 focus		against e-cigarettes as	
		groups with	Pregnant	they are not considered	
Kahr et al,		87	women,	safe nor effective in	
2015	Focus Groups	participants	Houston, Texas	smoking cessation.	
			Table		
			discusses		
			effects of utero	Authors conclude that	
			nicotine	"no amount of nicotine	
Suter et al,			exposure on	is known to be safe	
2014	Review Article	14 articles	offspring	during pregnancy."	
				Ob/Gyns are not	
				consistently screening	
				pregnant patients, and	
			American	many are not	
		1024 ACOG	College of	knowledgeable about	
England et		Members/	Obstetrics &	the harms of	
al, 2014	Mailed survey	252 eligible	Gynecology	e-cigarettes.	
				In a review of the	
				literature, authors found	
				that "data strongly imply	
				that at least 50% of	
				vapers will continue to	
				vape while pregnant	
				despite best efforts at	
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Key Elements of High Quality Articles

- **Peer Reviewed Journal:** This is a process where experts in a scholarly discipline review the research of an author or authors to ensure that the article meets standards for publication. The criteria includes: quality, significance, methodology, and importance.
- **Currency:** Locating the most current five or ten years of information is not a gold standard. There are several factors that determine how far back in time your search should run.
- Clearly recognized research question or problem: The introduction or background should include what is known, what is unknown and what is the author's aim or hypothesis.
- **Study design:** Revisit the PUBLIC HEALTH EVIDENCE-BASED PYRAMID to review different types of study designs.
- **Times Cited:** This is an indication that something important is going on with the article, but one should not assume that the article is necessarily good.

Summarizing the Literature Review

Introduction: Gives a quick idea of the topic of the literature review, such as the central theme or organizational pattern.

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

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

For more info: https://writingcenter.unc.edu/tips-and-tools/literature-reviews/

Objectives

- ✓ To explain the role of searching the literature in conducting a research
- \checkmark To recognize the levels of evidence
- \checkmark To differentiate the EBM resources
- \checkmark To identify where to search for evidence
- ✓ To prepare proper search terms
- \checkmark To perform Boolean operators and MeSH indexing
- ✓ To conduct literature search for evidence using Pubmed and Cochrane
- \checkmark To summarize the literature review for the IRB







