

Dr Armen Torchyan, MD, MPH Dr Rufaidah Dabbagh, MBBS, MPH October, 2011

# **OBJECTIVES OF THE LECTURE**

- Introduce PubMed
- Provide Keys to successful searching
- Build a search using PubMed tools
  - Boolean operators
  - Limits
- Manage search results
  - -Send to file



- -Sent to email
  - Etc.

## Why searching a literature?

- Staying current with advances in medicine
- Identifying information and ideas
- Increasing your breadth of knowledge
- Identifying seminal works in your area
- Carrying on from where others have already reached
- Avoiding reinventing the wheel
- Putting your work into perspective

### How to find a literature?



#### Index - Something that reveals or indicates

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## What is PubMed?

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



## 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

# Try to make a search for a clinical problem...



#### Case example

A 45-year-old man presents with a 10-month 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....

## **Case example**

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## **Keys to Successful Searching**



#### Indexes

Identifying appropriate indexes through clinical questions

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

Patient/problem
 Intervention
 Comparison intervention
 Outcome





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

#### Components of "well-built clinical questions."

- 1. Patient/problem "non-ulcer dyspepsia"
- 2. Intervention "treatment of *Helicobacter pylori infection"*
- 3. Comparison intervention- "no treatment"
- 4. Outcome "improve symptoms"

### **Case example**



Virulence attributes of Helicobacter pylori isolates & their association with a Indian | Med Res. 2011]

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

#### Components of "well-built clinical questions."

- 1. Patient/problem "non-ulcer dyspepsia"
- 2. Intervention "treatment of *Helicobacter pylori infection"*
- 3. Comparison intervention- "no treatment"
- 4. Outcome "improve symptoms"

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## **Boolean Operators**



• And

Or

Not

ightarrow

- both terms should be present
- either search term should be present
- the term should not be present

- Helicobacter pylori AND non-ulcer dyspepsia
- Non-ulcer dyspepsia **OR** gastritis
- NOT cancer

## **Boolean Operators**



• Salmonella AND Hamburger

- Salmonella 69432
- Hamburger 2703
- Salmonella AND Hamburger 14









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## Managing results

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A 47-year-old woman with cachexia and a history of chronic alcoholism presents with a 3-day episode of epigastric pain, anorexia, and nausea. Findings on a diagnostic evaluation are normal except for elevated pancreatic enzymes and an albumin level of 1.5 g/dL. After 24 hours, she feels hungry, but a general surgeon recommends continued bowel rest. You are concerned about her nutritional status and wish to <u>start feedings</u>.

- What is our PICO?
- 1. Patient/problem "acute pancreatitis"
- 2. Intervention "enteral nutrition"
- 3. Comparison intervention- "parenteral nutrition"
- 4. Outcome "decrease the length of hospitalization"



A 50-year old male with new onset type II diabetes consults you for lipid management. Patient has an LDL Cholesterol of 96 mg/dl with HDL Cholesterol of 48 mg/ dl. He recently heard that diabetic patients with even low LDL cholesterol might derive benefit from the use of statin medications.

How will you formulate your question?

# How to formulate your question



#### **PICO:**

- Patient/problem: Diabetes with low cholesterol
- Intervention: statins (lipid lowering drug)
- Comparison intervention: no treatment
- Outcome: fewer complications

Do patients with diabetes and low LDL cholesterol have better outcomes if they are treated with a statin medication compared to no treatment?



## Lets try to search in the literature!

http://www.ncbi.nlm.nih.gov/pubmed/



# Let's use some limits

# MeSH



- Medical subject headings (MeSH) is the database that uses hierarchy to index citations.
- This means that the database already has a created library of terms related to the term entered in the query box.
- This is usually arranged in hierarchy, from more general and broad term, to more specific term.
- This makes it easy for the searcher to catch all articles possibly related to the term entered in the query box. (automatic term explosion)
- It also helps you trace articles that have the EXACT word you are looking for.
- Let's try an example:

# MeSH cont.

- Say, you wanted to conduct a study about the association between eating disorders and depression.....
- However, you were not so sure about what diseases you wanted to search about.
- You don't know what kind of sub-diseases are under "Eating disorders"
- So you preliminary search under "Eating disorders" as a whole:

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Anorexia Nervosa [F03.375.100]			
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Neurotic Disorders [F03.650]			
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# Thank you

## Questions?