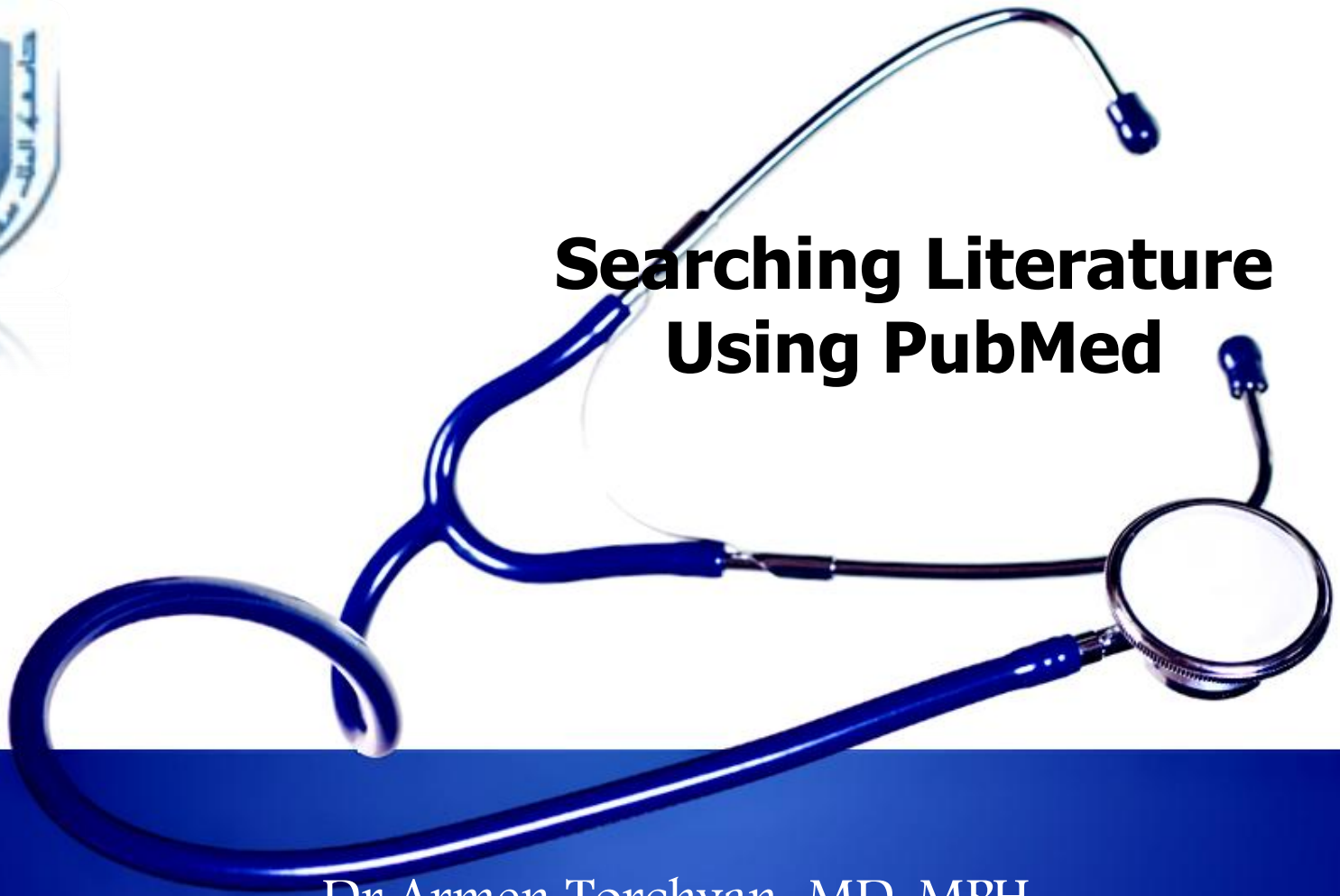




Searching Literature Using PubMed



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?

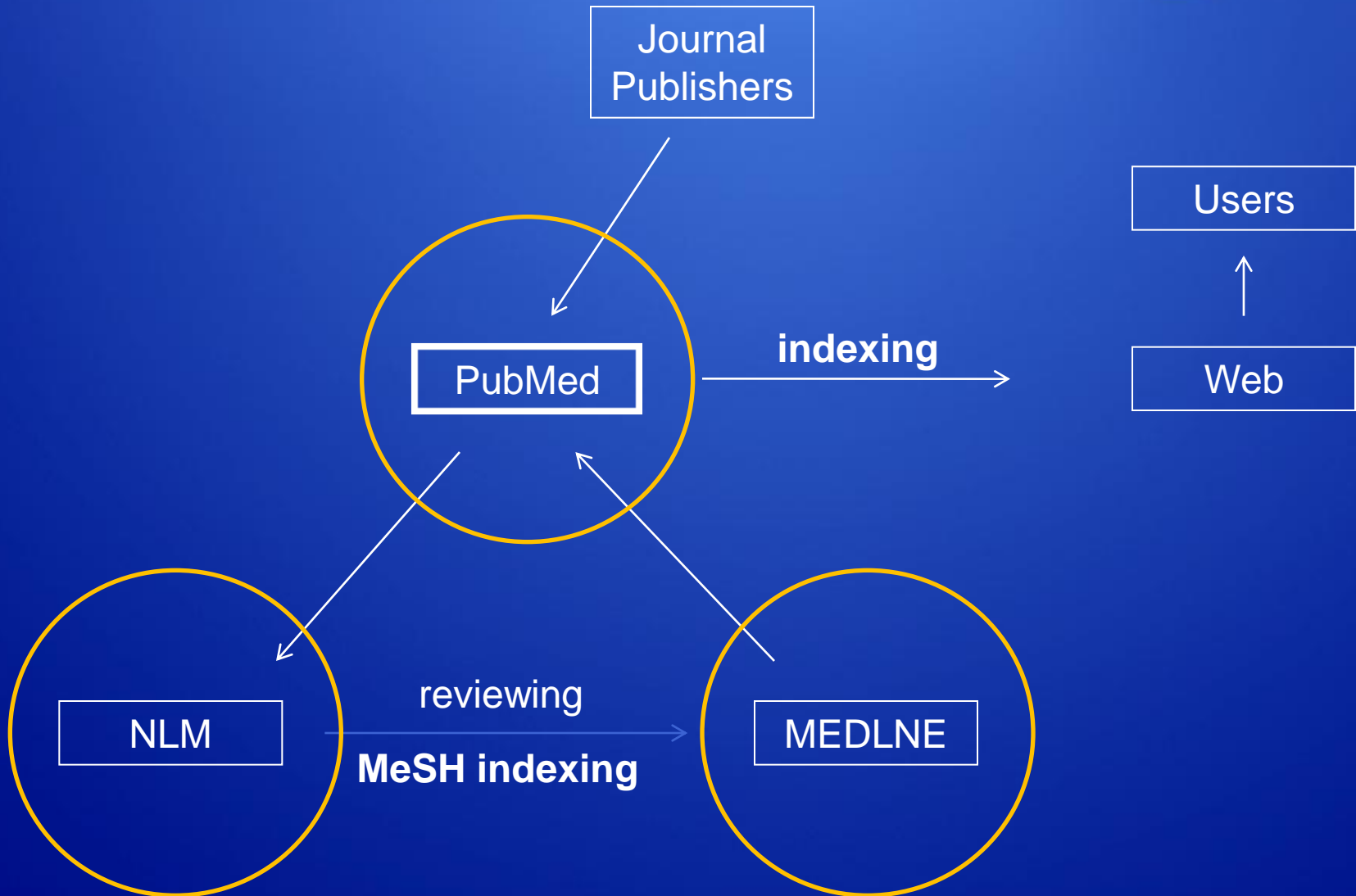


Index - Something that reveals or indicates

494 ■ INDEX

- Stone of Lugna 305
Stonehenge 393
Stormont 373
Stradbally 258
Strand
 (Portstewart) 438
Strangford 406
Strawberry Fair 186
Strokestown 326
Strongbow 53, 177
structures
 monstruous, thick,
 impenetrable 114
Struell Wells 408
study 18
stumpies 462
Supabus 33, 35
Swift, Jonathan 57,
 67, 102, 106, 152,
 408, 414, 416, 417
Synge, John
 Millington 69, 109,
 294, 298, 318
 tipping 13
Titanic 214, 391, 397
tobacco sticks 7
tonic wine 416
Tor 355
Torr Head 427
Tory Island 357
Tour de France 186
tourist bureaus 10
Tower Museum 444
trad 72
traditional music, see
 trad
trains 35
Tralee 258
Tramore 196
travel agencies 27
Travel CUTS 28
travel organizations 2
travel publications 2
traveler's checks 10
traveling with
 children 24
 Ulsterbus 37
 Union Hall 222
 Unionists 373
 United Irishmen 57
 University College
 Cork 19, 210
 Dublin 19
 Galway 19
 useful information 1
 useful publications 2
 Usenet 4
 USIT 28
 Belfast 382
 Cork City 202
 Derry City 440
 Dublin 78
 Waterford City 189
- V**
Valentia Island 250
vanishing lake 427
VAT (Value-Added
Tax) 13
 flaming 156
 Irish 76
 Irish Whiskey
 Corner 106
 Jameson 76, 215
 Paddy 76
 Powers 76
 whisky 76, 215
 White Island 453
 Whitepark Bay 433
 Wicklow Coast 128
 Wicklow
 Mountains 121
 Wicklow Town 128
 Wicklow Way 39,
 124
 Wicklow, Co. 121
 Wilde, Oscar 68, 106
 William III, King 57,
 444
 Willie Clancy School
 of Traditional

Indexing a literature

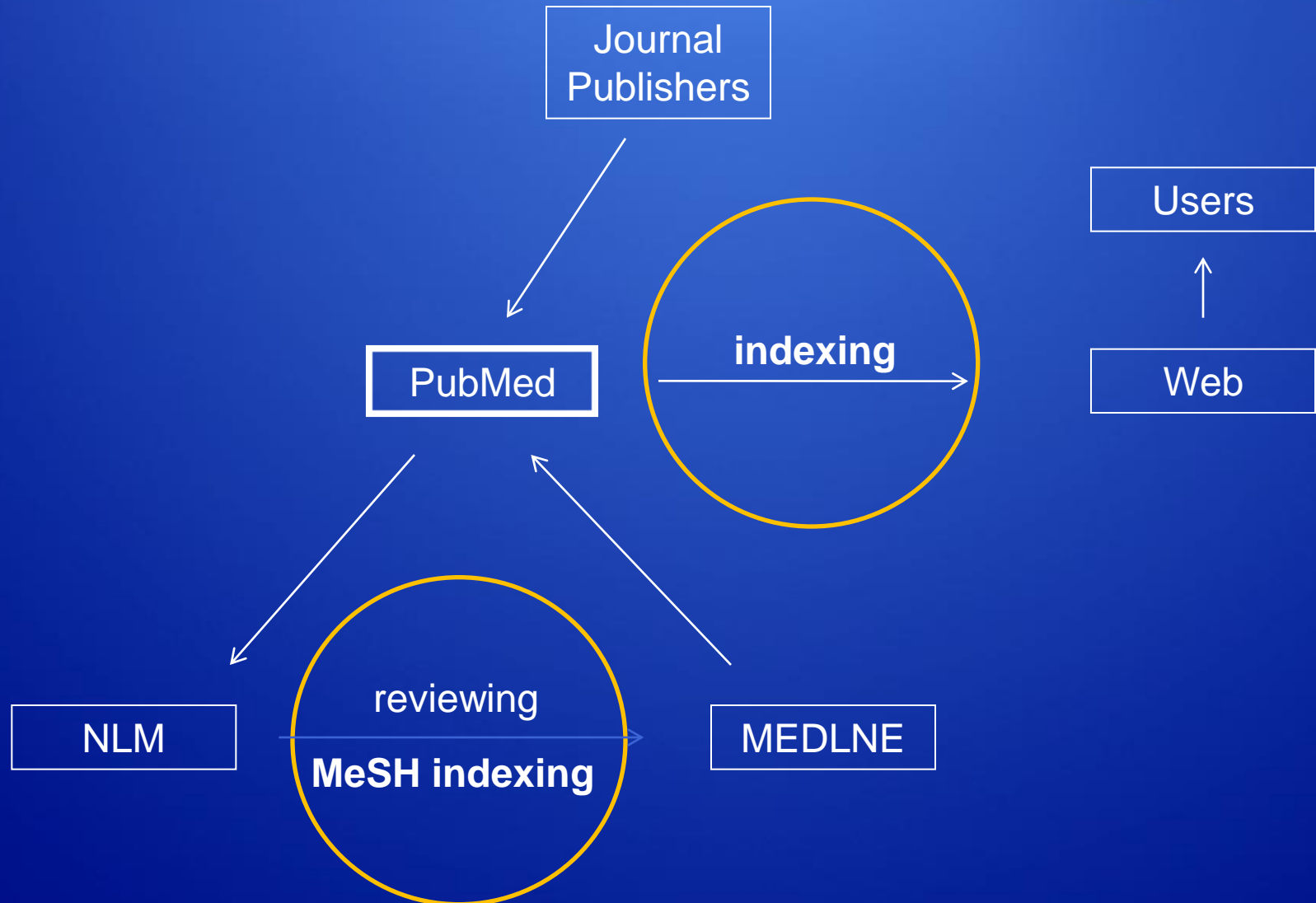


What is PubMed?



- **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**)

Indexing a literature



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 proton-pump 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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US National Library of Medicine
National Institutes of Health

PubMed [v] Helicobacter pylori [x] Search

RSS Save search Limits Advanced Help

Display Settings: [v] Summary, 20 per page, Sorted by Recently Added Send to: [v]

Filter your results:

All (30512)

[Free Full Text \(8069\)](#)

[Review \(5375\)](#)

[Manage Filters](#)

Also try:

[helicobacter pylori infection](#)

[helicobacter pylori eradication](#)

[helicobacter pylori gastric cancer](#)

[helicobacter pylori diagnostic](#)

[helicobacter pylori caga](#)

Titles with your search terms

[Helicobacter pylori: gastric cancer and beyond.](#)
[Nat Rev Cancer. 2010]

[Clinical practice. Helicobacter pylori infection.](#)
[N Engl J Med. 2010]

Results: 1 to 20 of **30512** << First < Prev Page 1 of 1526 Next > Last >>

[Helicobacter pylori infection in neonatal mice prevents allergic asthma.](#)

1. Ahmad 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.](#)

2. Walker MM, Talley NJ.
Pathol Res Pract. 2011 Sep 20. [Epub ahead of print]
PMID: 21940106 [PubMed - as supplied by publisher]
[Related citations](#)

[Motility and Chemotaxis in Campylobacter and Helicobacter.](#)

3. Lertsethtakarn P, Ottemann KM, Hendrixson DR.
Annu Rev Microbiol. 2011 Oct 13;65:389-410.
PMID: 21939377 [PubMed - as supplied by publisher]
[Related citations](#)

Keys to Successful Searching



Indexes

- Identifying appropriate **indexes** through clinical questions

Components of “well-built clinical questions.”

PICO

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

Case example



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



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PubMed ▾ Helicobacter pylori AND non-ulcer dyspepsia Search

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- [Quantitation of **Helicobacter pylori** ureC gene and its comparison with different diagnostic techniques and gastric histopathology.](#)
Shukla SK, Prasad KN, Tripathi A, Ghoshal UC, Krishnani N, Nuzhat H.
J Microbiol Methods. 2011 Aug;86(2):231-7. Epub 2011 May 23.
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- [Virulence attributes of **Helicobacter pylori** isolates & their association with gastroduodenal disease.](#)
Saxena A, Shukla S, Prasad KN, Ghoshal UC.
Indian J Med Res. 2011 May;133(5):514-20.
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- [High correlation of babA \(2 \)-positive strains of **Helicobacter pylori** with the presence of gastric cancer.](#)
Talebi Bezmin Abadi A, Taghvaei T, Mohabbati Mobarez A, Vaira G, Vaira D.

Case example



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2. Intervention - “treatment of *Helicobacter pylori* infection”
3. Comparison intervention- “no treatment”
4. Outcome - “improve symptoms”

Case example



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PubMed ▾ Helicobacter pylori AND non-ulcer dyspepsia AN X Search

RSS Save search Limits Advanced Help

Display Settings: ▾ Summary, Sorted by Recently Added Send to: ▾

Results: 5

Boolean Operator

Filter your results:

- All (5)
- Free Full Text (2)
- Review (2)

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Find related data

Database: Select ▾

Find items

Search details

```
("helicobacter pylori"[MeSH Terms] OR ("helicobacter"[All Fields] AND "pylori"[All Fields])) OR "helicobacter pylori"[All Fields]) AND (non-
```

Search See more...

1. [The effect of **Helicobacter pylori** eradication on **symptoms** and gastric emptying in patients with nonulcer **dyspepsia**.](#)
Türkay C, Soykan I, Kir M, Ozden A.
Turk J Gastroenterol. 2002 Sep;13(3):146-53.
PMID: 16378296 [PubMed] [Free Article](#)
[Related citations](#)

2. [Lack of effect of **Helicobacter pylori** on symptom improvement with a prokinetic medication, cisapride, in patients with **non-ulcer dyspepsia**.](#)
Gonlachanvit S, Mahachai V, Chaiwatanarat T, Kullavanijaya P.
J Med Assoc Thai. 2005 May;88(5):660-7.
PMID: 16149685 [PubMed - indexed for MEDLINE]
[Related citations](#)

3. [Cure of **Helicobacter pylori** infection does not improve **symptoms** in **non-ulcer dyspepsia** patients-a double-blind placebo-controlled study.](#)
Miwa H, Hirai S, Nagahara A, Murai T, Nishira T, Kikuchi S, Takei Y, Watanabe S, Sato N.
Aliment Pharmacol Ther. 2000 Mar;14(3):317-24.

Boolean Operators



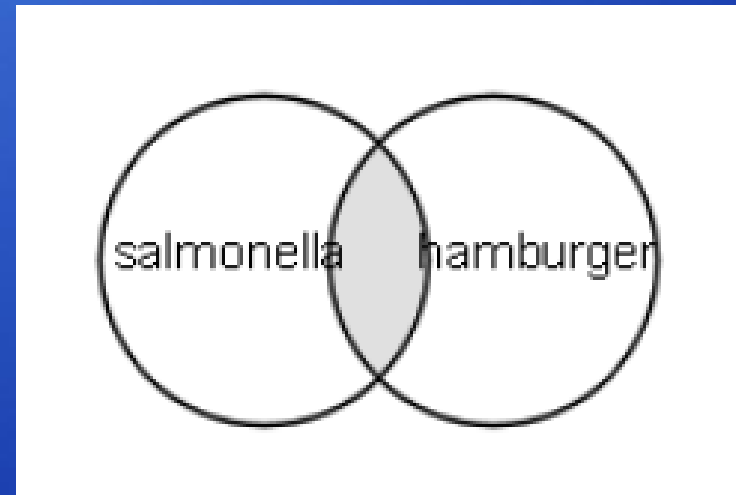
- And - both terms should be present
 - Or - either search term should be present
 - Not - the term should not be present
-
- Helicobacter pylori **AND** non-ulcer dyspepsia
 - Non-ulcer dyspepsia **OR** gastritis
 - **NOT** cancer

Boolean Operators



AND

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



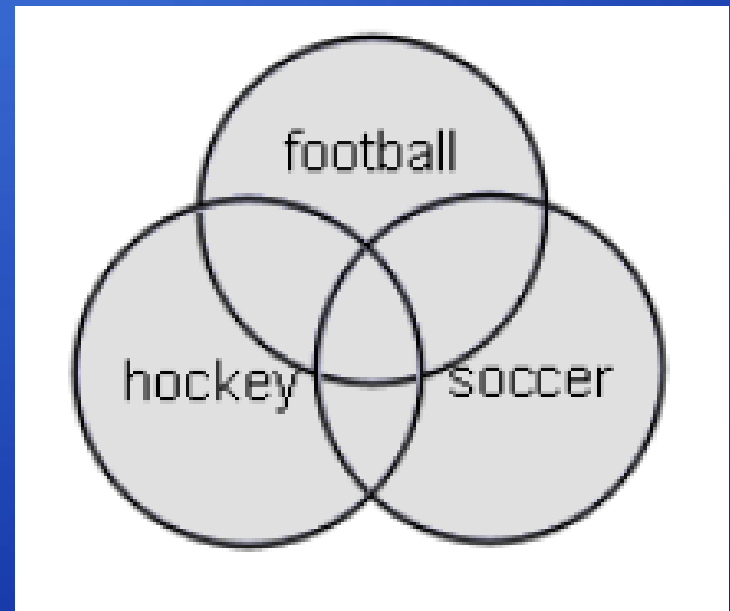
Boolean Operators



OR

- Football OR Hockey OR Soccer

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

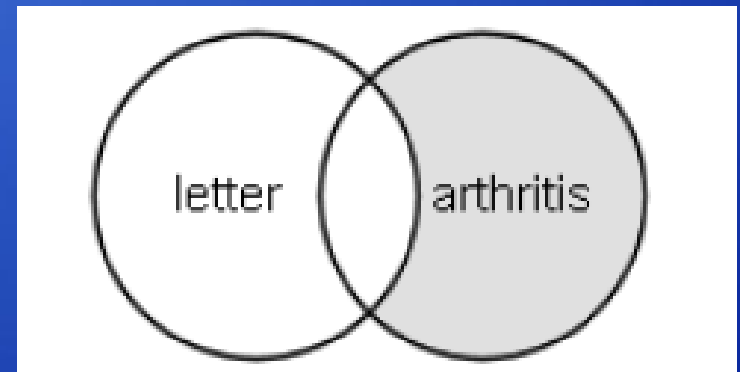


Boolean Operators



NOT

- Arthritis NOT Letter
- Arthritis - 185375
- Letter - 686049
- Arthritis “excluding” letter - **176352**



Limits



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[Review \(125\)](#)

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[Quantitation of *Helicobacter pylori* ureC gene and its comparison with different diagnostic techniques and gastric histopathology.](#)

Shukla SK, Prasad KN, Tripathi A, Ghoshal UC, Krishnani N, Nuzhat H.
J Microbiol Methods. 2011 Aug;86(2):231-7. Epub 2011 May 23.

PMID: 21624400 [PubMed - in process]

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[Virulence attributes of *Helicobacter pylori* isolates & their association with gastroduodenal disease.](#)

Saxena A, Shukla S, Prasad KN, Ghoshal UC.
Indian J Med Res. 2011 May;133(5):514-20.

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Talebi Bezmin Abadi A, Taghvaei T, Mohabbati Mobarez A, Vaira G, Vaira D.

Titles with your search terms

[Comparison of *Helicobacter pylori* eradication rate in patients with [Korean J Gastroenterol. 2008]

Eradication of *Helicobacter pylori* for non-ulcer dyspepsia. [Cochrane Database Syst Rev. 2006]

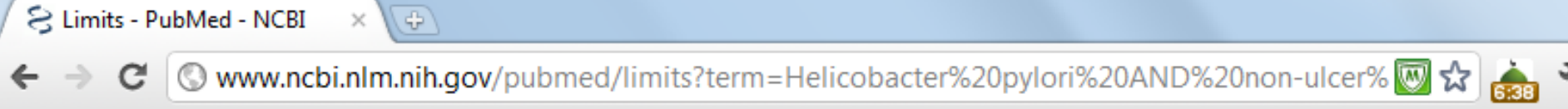
Prevalence of *Helicobacter pylori* infection in maintenance h[Saudi J Kidney Dis Transpl. 2009]

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Limits



Limits

Dates

Published in the Last:

Type of Article

- Letter
- Meta-Analysis
- Practice Guideline
- Randomized Controlled Trial
- Review

Languages

- English
- French
- German
- Italian
- Japanese

Species

- Humans
- Animals

Sex

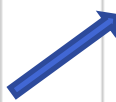
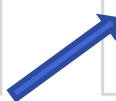
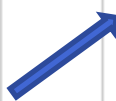
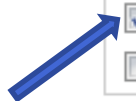
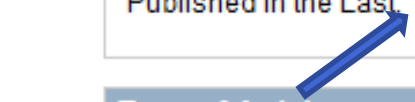
- Male
- Female

Subsets

- AIDS
- Bioethics
- Cancer
- Complementary Medicine
- Core clinical journals

Ages

- Young Adult: 19-24 years
- Adult: 19-44 years
- Middle Aged: 45-64 years
- Middle Aged + Aged: 45+ years
- Aged: 65+ years



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Limits Activated: Humans, Male, Randomized Controlled Trial, English, Middle Aged: 45-64 years [Change](#) | [Remove](#)

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- [Comparison of the efficacy of triple versus quadruple therapy on the eradication of **Helicobacter pylori** and antibiotic resistance.](#)
 Zheng Q, Chen WJ, Lu H, Sun QJ, Xiao SD.
 J Dig Dis. 2010 Oct;11(5):313-8. doi: 10.1111/j.1751-2980.2010.00457.x.
 PMID: 20883428 [PubMed - indexed for MEDLINE]
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 Lee VW, Chau TS, Chan AK, Lee KK, Waye MM, Ling TK, Chan FK.
 J Clin Pharm Ther. 2010 Jun;35(3):343-50.
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 Salem EM, Yar T, Bamosa AO, Al-Quorain A, Yasawy MI, Alsulaiman RM, Randhawa MA.
 Saudi J Gastroenterol. 2010 Jul-Sep;16(3):207-14.
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- [Comparison of **Helicobacter pylori** eradication rate in patients with [Korean J Gastroenterol. 2008]
 - Eradication of **Helicobacter pylori** for non-ulcer dyspepsia. [Cochrane Database Syst Rev. 2006]
 - Prevalence of **Helicobacter pylori** infection in maintenance h [Saudi J Kidney Dis Transpl. 2009]
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1. Comparison of the efficacy of triple versus quadruple therapy on the eradication of Helicobacter pylori and antibiotic resistance.

Zheng Q, Chen WJ, Lu H, Sun QJ, Xiao SD. J Dig Dis. 2010 Oct;11(5):313-8. doi: 10.1111/j.1751-2980.2010.00457.x. PMID: 20883428 [PubMed - indexed for MEDLINE]

Related citations

2. Pharmacogenetics of esomeprazole or rabeprazole-based triple therapy in Helicobacter pylori eradication in Hong Kong non-ulcer dyspepsia Chinese subjects.

Lee VW, Chau TS, Chan AK, Lee KK, Waye MM, Ling TK, Chan FK. J Clin Pharm Ther. 2010 Jun;35(3):343-50. PMID: 20831535 [PubMed - indexed for MEDLINE]

Related citations

3. Comparative study of Nigella Sativa and triple therapy in eradication of Helicobacter Pylori in patients with non-ulcer dyspepsia.

Salem EM, Yar T, Bamosa AO, Al-Quorain A, Yasawy MI, Alsulaiman RM, Randhawa MA. Saudi J Gastroenterol. 2010 Jul-Sep;16(3):207-14. PMID: 20616418 [PubMed - indexed for MEDLINE]

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[Comparison of Helicobacter pylori eradication rate in patients with [Korean J Gastroenterol. 2008]

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Managing results



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- 1. [Quantitation of Helicobacter pylori ureC gene by different diagnostic techniques and gastric histology](#)
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PMID: 21624400 [PubMed - in process]
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71)

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Case 2



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 start feedings.

- **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”

Case 3



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:

Eating disorder AND Depression - PubMed - Mozilla Firefox

File Edit View History Bookmarks Tools Help

Hotmail - rdabbagh@live.com - Windows ... Eating disorder AND Depression - PubMe... Eating Disorders

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PubMed Eating disorder AND Depression Search

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Results: 1 to 20 of 3500 All (3500)

Free Full Text (376) Review (554) Manage Filters

Psychiatric comorbidities in women with Celiac Disease.

1. Arigo D, Anskis AM, Smyth JM. Chronic Illn. 2011 Sep 20. [Epub ahead of print] PMID: 21933881 [PubMed - as supplied by publisher] Related citations

Do eating disorders accompany metabolic syndrome in psoriasis patients? Results of a preliminary study.

2. Altunay I, Demirci GT, Ates B, Kucukunal A, Aydin C, Karamustafaloglu O, Altuntas Y. Clin Cosmet Investig Dermatol. 2011;4:139-43. Epub 2011 Aug 29. PMID: 21931499 [PubMed - in process] Related citations

Retrospective chart review of a referenced EEG database in assisting medication selection for treatment of depression in patients with eating disorders.

3. Greenblatt JM, Sussman C, Jameson M, Yuan L, Hoffman DA, Iosifescu DV. Neuropsychiatr Dis Treat. 2011;7:529-41. Epub 2011 Sep 9. PMID: 21931495 [PubMed - in process] Free Article Related citations

Bupropion Versus Sertraline in the Treatment of Depressive Patients with Binge Eating Disorder: Retrospective Cohort Study.

4. Calandra C, Russo RG, Luca M. Psychiatr Q. 2011 Sep 17. [Epub ahead of print] PMID: 21927936 [PubMed - as supplied by publisher] Related citations

Evidence that 'food addiction' is a valid phenotype of obesity.

5. Davis C, Curtis C, Levitan RD, Carter JC, Kaplan AS, Kennedy JL. Appetite. 2011 Sep 3;57(3):711-717. [Epub ahead of print] PMID: 21907742 [PubMed - as supplied by publisher] Related citations

Gender Differences in Military Sexual Trauma and Mental Health Diagnoses Among Iraq and Afghanistan Veterans With Posttraumatic Stress Disorder.

6. Maguen S, Cohen B, Ren L, Bosch J, Kimerling R, Seal K. Womens Health Issues. 2011 Sep 8. [Epub ahead of print] PMID: 21907590 [PubMed - as supplied by publisher] Related citations

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Binge eating disorder and depression: a systematic review. [World J Biol Psychiatry. 2010]

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Fatty acid-induced gut-brain signaling attenuates neural and behavioral effects of stress. [J Clin Invest. 2011]

Treatment of Comorbid Obesity and Major Depressive Disorder: A Prospective Study. [J Obes. 2011]

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2. Altunay I, Demirci GT, Ates B, Kucukunal A, Aydin C, Karamustafaloglu O, Altuntas Y.
Clin Cosmet Investig Dermatol. 2011;4:139-43. Epub 2011 Aug 29.
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3. Greenblatt JM, Sussman C, Jameson M, Yuan L, Hoffman DA, Iosifescu DV.
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