



Literature Review: Search Engines

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September, 2014

Headlines

- Introduction to search engines
- Identify suitable information sources.
- Access main search engines on the web
- Academic Digital Library/Saudi Digital Library
- EndNote software
- Examples and explanations

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

Examples popular Search Engines

Google™

YAHOO!®

msn.™

AOL.

Ask Jeeves®
Ask.com

alltheweb
• • • find it all • • •

altavista™

Who has access to the following databases ?

General search engines:

- Pub-med (Medline)
- Clinical Evidence
- Cochrane
- Best Evidence
- Best Treatment
- Trip database
- Bandolier

EBM Guidelines:

- NICE
- PRODIGY
- SIGN
- Others

Not Enough ?

More databases...

- **CINAHL** - Cum. Index to Nursing and Allied Health Literature
 - <http://www.cinahl.com>
- **ERIC** – Education Resources Information Center
 - <http://www.eric.ed.gov>
- **PsycINFO** – A database of American Psychological Association
 - <http://www.apa.org/psycinfo>
- **Campbell Collaboration**
 - <http://www.campbellcollaboration.org>
- **BEME** - Best Evidence Medical Education
 - www.bemecollaboration.org

Regional and Local...

- Index Medicus of the Eastern Mediterranean Region
 - <http://www.emro.who.int/information-resources/imemr-database/>
- Saudi Medical Literature:
 - <http://saudimedlit.librarynwafh.com/index.html>

What is the difference?

- **“Literature Review”**
- **“Literature Search”**

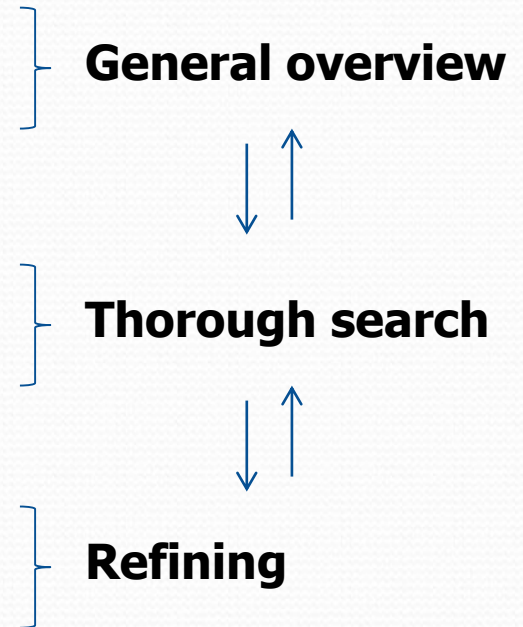
What is a literature search?

“A systematic and thorough search of published literature in order to collect information about a particular topic.”

The Chartered Society of Physiotherapy, UK

Where to start...?

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



Evidence Based Guidelines

- NICE - National Institute for Health and Clinical Excellence
 - <http://www.nice.org.uk>
- PRODIGY - formerly CKS
 - <http://prodigy.clarity.co.uk/home>
- NGC - National Guideline Clearinghouse
 - <http://guideline.gov/>
- SIGN - Scottish Intercollegiate Guidelines Network
 - <http://www.sign.ac.uk/index.html>

Got a question for NICE?

NICE Question Time is taking place in Shrewsbury on 21 November 2012.

Book your place today for the chance to put questions to NICE's Chief Executive and Chair.

NICE Question Time is followed by NICE's bi-monthly Board meeting, which is also open to the public.



About NICE	News and comment	NICE Guidance	NICE Pathways	Into practice	NHS Evidence
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What we do

Providing guidance to ensure quality and value for money

NICE guidance supports healthcare professionals and others to make sure that the care they provide is of the best possible quality and offers the best value for money.

We provide independent, authoritative and evidence-based guidance on the most effective ways to prevent, diagnose and treat disease and ill health, reducing inequalities and variation

Our guidance is for the NHS, local authorities, charities, and anyone with a responsibility for commissioning or providing healthcare, public health or social care services. We also support these groups in putting our guidance into practice.

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Guidance by type

View guidance by clicking on the types below

Clinical guidelines

NICE clinical guidelines make recommendations to the NHS on treating and caring for people with specific diseases and conditions.

Public health guidance

NICE public health guidance makes recommendations to the NHS, local authorities and other organisations in the public, private, voluntary and community sectors on how to improve people's health and prevent illness and disease.

Technology appraisal guidance

NICE technology appraisal guidance makes recommendations on when and how new and existing medicines and treatments should be used in the NHS.

Interventional procedures guidance

NICE interventional procedures guidance advises the NHS on whether new interventional procedures are safe and effective enough to be used routinely.

Medical technologies guidance

NICE medical technologies guidance helps the NHS to adopt medical technologies more rapidly and consistently by advising on efficacy and cost effectiveness.

Diagnostics guidance

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NGC is a public resource for evidence-based clinical practice guidelines.

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New This Week
November 05, 2012

Expert Commentary

- Importance of Quality Metrics for Providing High Quality Melanoma Care

New/Updated Guideline Summaries

- AANEM, AANN, AASM, ACOG, ACR, AGS, BAD, BTS

[View All](#)

Announcements

U.S. Food and Drug Administration (FDA) Advisory

- November 2, 2012: [Pradaxa \(dabigatran etexilate mesylate\)](#)

Conference News

- Save the Date! **G-I-N North America** is co-sponsoring with the Section on Evidence Based Health Care (SEBHC) of The New York Academy of Medicine a two-day

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More thorough search?

**If you fail to plan,
you plan to fail.**

Ben Franklin

Prepare → Organize → Combine

Prepare

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

Organize

- Make a list of the words that are critical to your search.
- Exchange/add some words if needed.
- Note terms that you don't want to appear.
- Discard the rest.

Combine

Use Boolean operators to combine our most important terms.

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

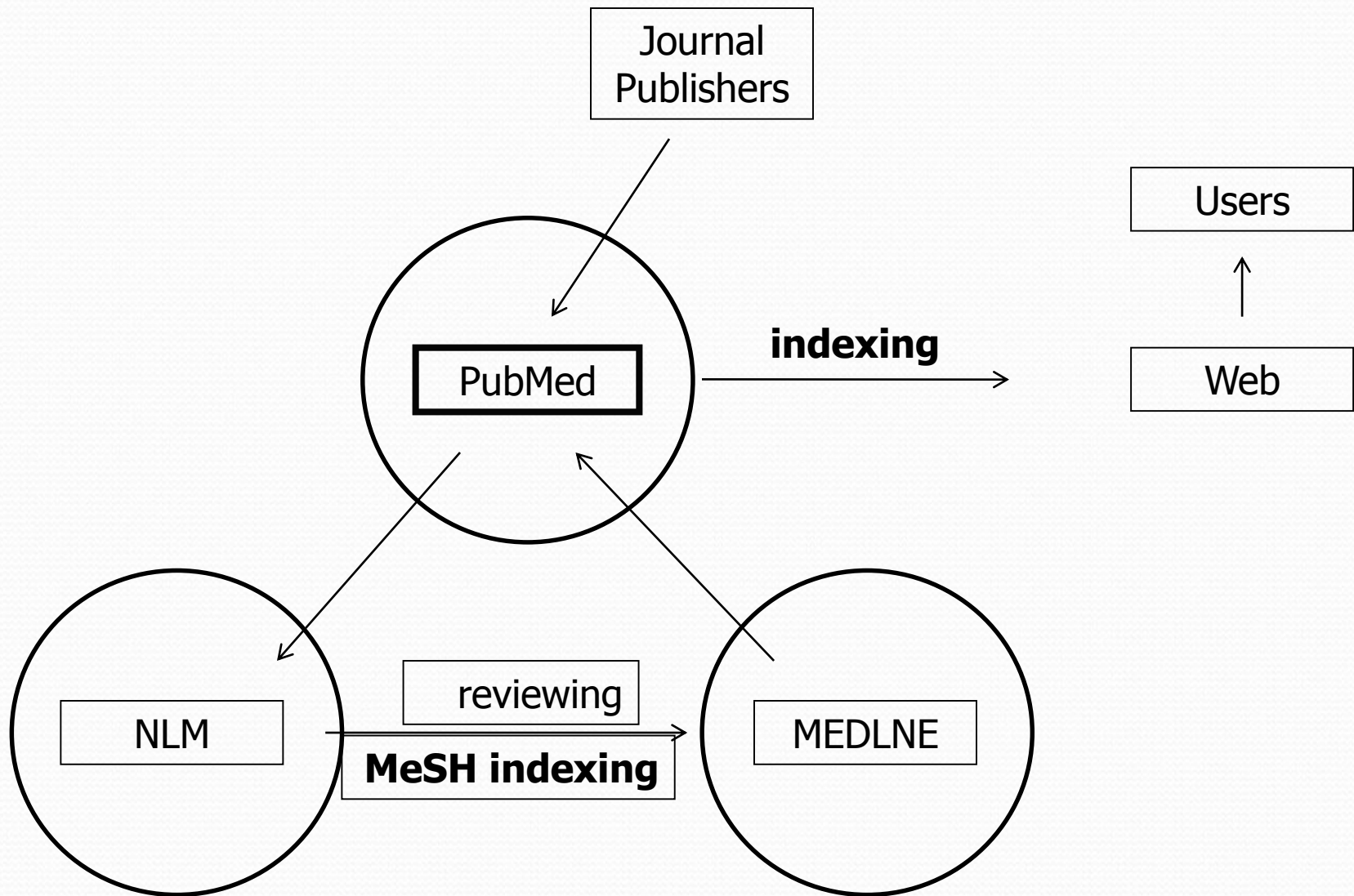
What are the mechanisms?

Index - Something that reveals or indicates

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Indexing a literature



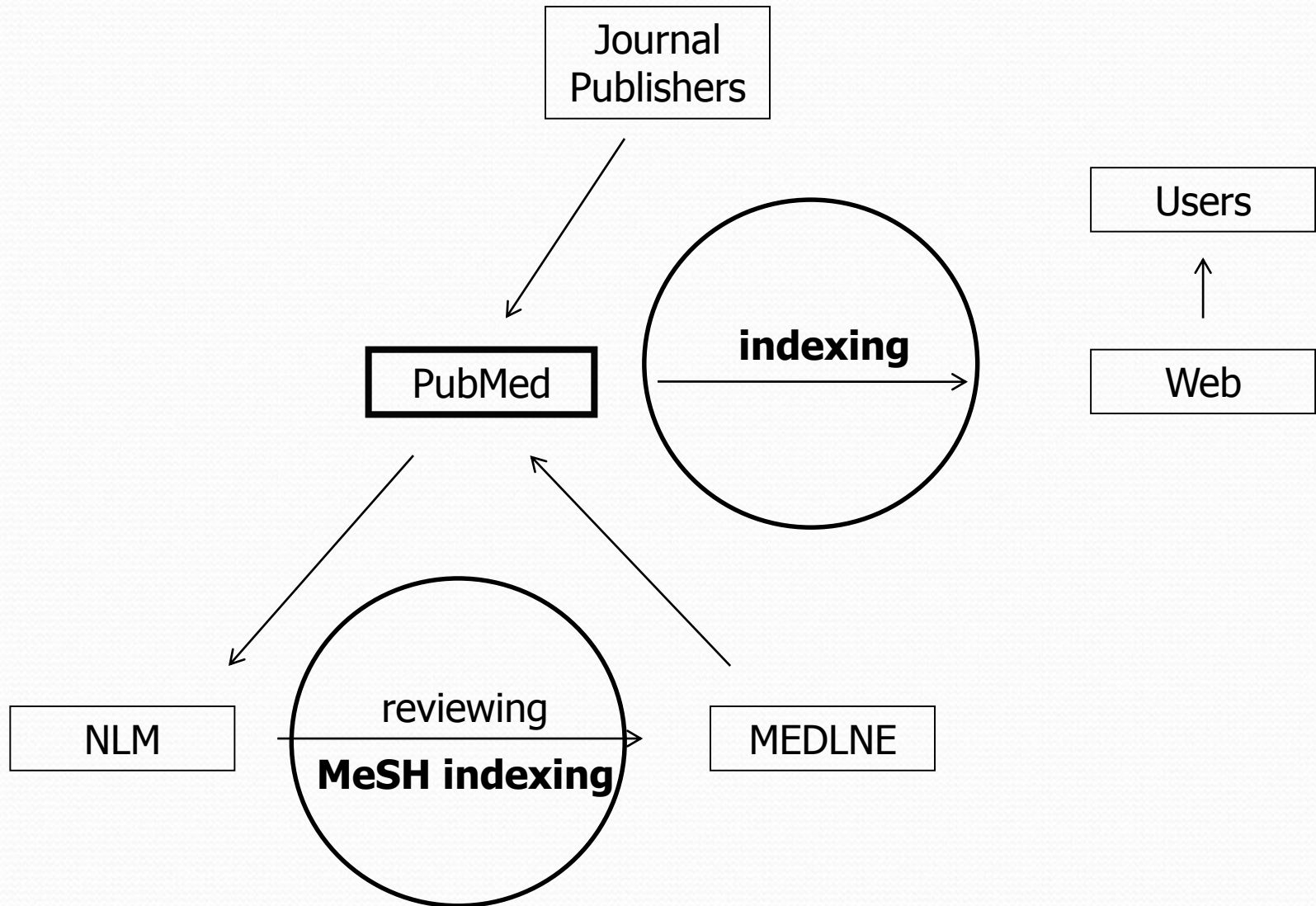
What is PubMed?

- **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**)

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

Indexing a literature



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 +

MeSH

MeSH



head injury

[Save search](#)[Limits](#)[Advanced](#)[Display Settings:](#) Summary[Send to:](#) **Results: 4** **Craniocerebral Trauma**

1. Traumatic injuries involving the cranium and intracranial structures (i.e., BRAIN; CRANIAL NERVES; MENINGES; and other structures). Injuries may be classified by whether or not the skull is penetrated (i.e., penetrating vs. nonpenetrating) or whether there is an associated hemorrhage.

Year introduced: 2000(1966)

 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 intracranial structures which may produce traumatic

[All MeSH Categories](#)

[Diseases Category](#)

[Nervous System Diseases](#)

[Trauma, Nervous System](#)

Craniocerebral Trauma

[Brain Injuries](#)

[Brain Concussion](#) +

[Brain Hemorrhage, Traumatic](#) +



[Brain Injury, Chronic](#)

[Diffuse Axonal Injury](#)

[Epilepsy, Post-Traumatic](#)



[Pneumocephalus](#)

[Shaken Baby Syndrome](#)

[Cerebrospinal Fluid Otorrhea](#)

[Cerebrospinal Fluid Rhinorrhea](#)

[Coma, Post-Head Injury](#)

[Cranial Nerve Injuries](#)

[Abducens Nerve Injury](#)



[Facial Nerve Injuries](#)

[Optic Nerve Injuries](#)

[Head Injuries, Closed](#)

[Brain Concussion](#) +

[Head Injuries, Penetrating](#)

[Intracranial Hemorrhage, Traumatic](#)

[Brain Hemorrhage, Traumatic](#) +

[Hematoma, Epidural, Cranial](#)



[Hematoma, Subdural](#) +

[Subarachnoid Hemorrhage, Traumatic](#)

[Skull 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

1. **P**atient/problem
2. **I**ntervention
3. **C**omparison intervention
4. **O**utcome

Try to make a search...

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

PubMed

Helicobacter pylori

[Help](#)

[Display Settings:](#) Summary, 20 per page, Sorted by Recently Added

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Filter your results:

Results: 1 to 20 of 30512

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All (30512)

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

[Review \(5375\)](#)

[Manage Filters](#)

[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](#)

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]

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”

Display Settings: ▾ Summary, 20 per page, Sorted by Recently Added

Send to: ▾

Filter your results:

Results: 1 to 20 of 613

<< First < Prev Page 1 of 31 Next > Last >>

All (613)

Free Full Text (171)

Review (125)

Manage Filters

1. [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]

[Related citations](#)

2. [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.

PMID: 21623037 [PubMed - in process] [Free PMC Article](#)

[Free full text](#) [Related citations](#)

3. [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.

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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Virulence attributes of *Helicobacter pylori* isolates & their association with n [Indian J Med Res. 2011]

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”

Display Settings: Summary, Sorted by Recently Added

Send to:

Filter your results:

Results: 5

Boolean Operator

All (5)

Free Full Text (2)

Review (2)

Manage Filters

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.](#)

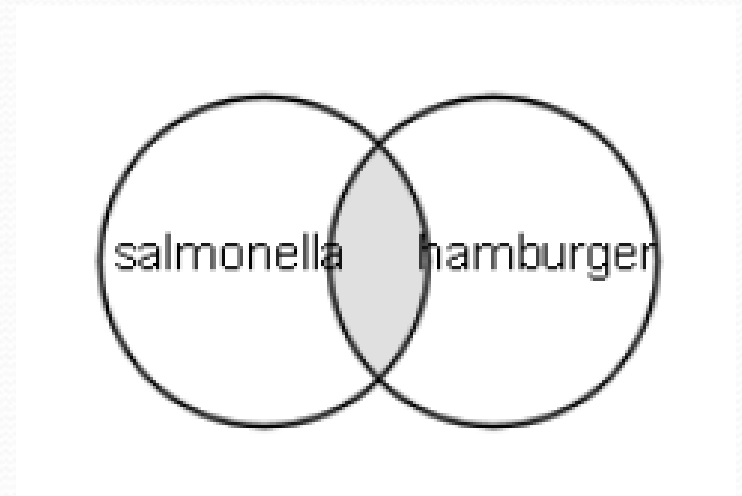
Miwa H, Hirai S, Nagahara A, Murai T, Nishira T, Kikuchi S, Takei Y,
Watanabe S, Sato N.

Aliment Pharmacol Ther. 2000 Mar;14(3):317-24.

Boolean Operators

AND

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



Boolean Operators

OR

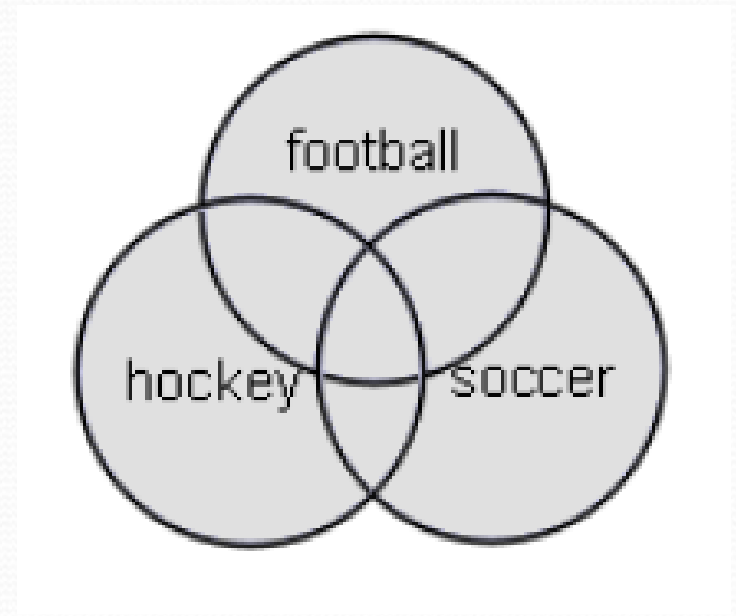
- Football OR Hockey OR Soccer

- Football - 3948

- Hockey - 1466

- Soccer - 3137

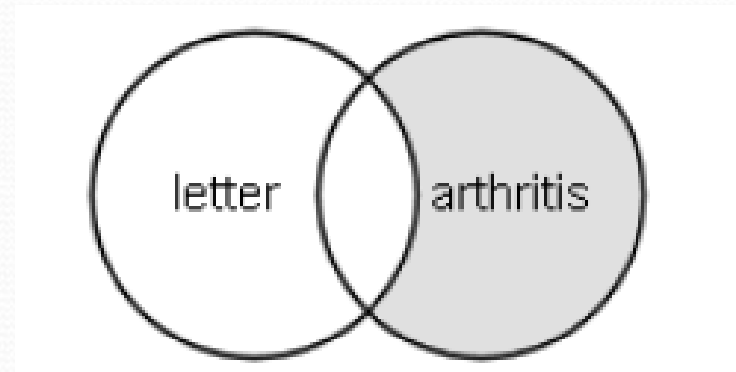
Total - 7538



Boolean Operators

NOT

- Arthritis NOT Letter



- Arthritis - 185375
- Letter - 686049
- Arthritis “excluding” letter - **176352**

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:** **Results: 1 to 20 of 626**

<< First < Prev Page 1 of 32 Next > Last >>

1. [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]

[Related citations](#)

2. [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]

Text**availability**

Abstract available

Free full text

available

Full text available

Publication dates

5 years

10 years

Custom range...

Species

Humans



US National Library of Medicine
National Institutes of Health

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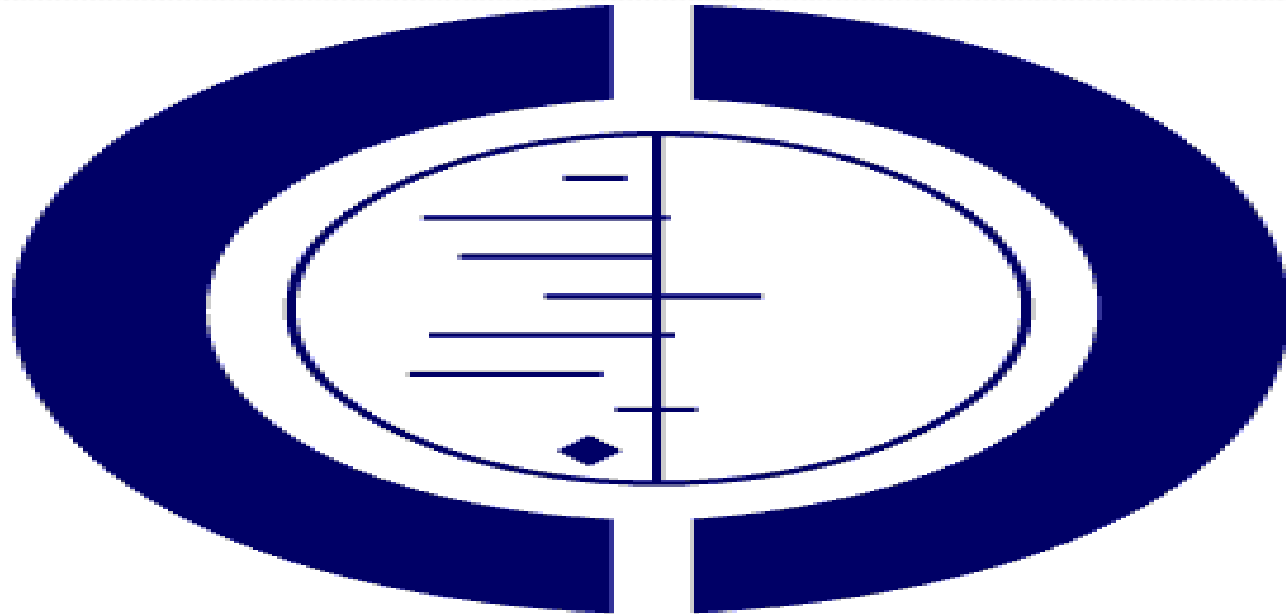
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- Depression, anxiety & neurosis
- Developmental, psychosocial and learning problems
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Issue 10 of 12, Oct 2012 | [Contents](#)

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[Cancer](#) (409)

[Child health](#) (1481)

[Complementary & alternative medicine](#) (545)

[Consumer & communication strategies](#) (52)

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Cochrane Evidence Aid: Resources for burns



Avoiding unnecessary blood transfusion

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EDITORIAL

General health checks in adults for reducing morbidity and mortality from disease



Since the latter half of the 20th century, technological advances in modern medicine and a growing emphasis on preventive care have led to increased enthusiasm for screening in apparently healthy people. In primary care practice, the general health check (also termed periodic health evaluation or routine medical examination) is the usual mechanism used to screen asymptomatic people for disease. Although widely practiced, there is no universally accepted definition of what constitutes a general health...

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- Cochrane Reviews (39)
- All
- Review
- Protocol
- Other Reviews (37)
- Trials (1553)
- Methods Studies (28)
- Technology Assessments (19)
- Economic Evaluations (34)
- Cochrane Groups (0)
- All

There are 39 results from 7530 records for your search on 'Otitis Media in title abstract keywords in Cochrane Reviews'

Pages 1 - 25 | 26 - 39 | Sort by Relevance

[Select all](#) | [Export all](#) | [Export selected](#)

- [Adenoidectomy for otitis media in children](#)
Maaïke TA van den Aardweg , Anne GM Schilder , Ellen Herkert , Chantal WB Boonacker and Maroeska M Rovers
May 2010
- [Antibiotics for the prevention of acute and chronic suppurative otitis media in children](#)
Amanda J Leach and Peter S Morris
January 2011

difference of 3% between groups). There were no differences found when examining treatment with ceftriaxone for less than seven days (30% failure in those receiving ceftriaxone and 27% in short-acting antibiotics administered for seven days or more) or azithromycin for less than seven days (18% failure in both those receiving azithromycin and short-acting antibiotics administered for seven days or more) with respect to risk of treatment failure at one month or less. Significant reductions in gastrointestinal adverse events were observed for treatment with short-acting antibiotics and azithromycin.

Authors' conclusions

Clinicians need to evaluate whether the minimal short-term benefit from longer treatment of antibiotics is worth exposing children to a longer course of antibiotics.

Plain language summary Jump to...

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 length 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 term. No differences are seen one month later. The amount of gastrointestinal adverse events decreased with a shorter course of antibiotics.

[View Full Article \(HTML\)](#) | [Summary \(57K\)](#) | [Standard \(570K\)](#) | [Full \(1068K\)](#)

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Topics: [Antibiotics](#)

Clinical Scenario

- Khalid is a 40 years old smoker, would like to quit smoking, 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 **medications** can be used to help smoker to quit, he would like your advise about this issue!


www.cochrane.org > Home

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We produce the Cochrane Database of Systematic Reviews, part of The Cochrane Library, the definitive resource for evidence-based health

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- [Review Manager software](#)
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The Cochrane Database of Systematic Reviews 2006
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Plain language summary

Two medications used to treat depression, bupropion and nortriptyline, help smokers who are trying to quit.

Trials of bupropion (Zyban) for smoking cessation indicate that it can double the chance of quitting. The side effects of bupropion include insomnia, dry mouth and nausea. This medication can also cause seizures; at the dose used for smoking cessation the risk is estimated to be 1 in 1000. The tricyclic antidepressant nortriptyline also doubles quit rates. The side effects of this medication include nausea and sedation. It may also cause





significant long-term benefit. There is a risk of about 1 in 1000 of seizures associated with 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 [The Cochrane Library](#) (ISSN 1464-780X).



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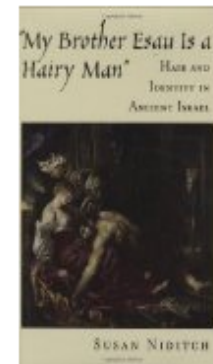


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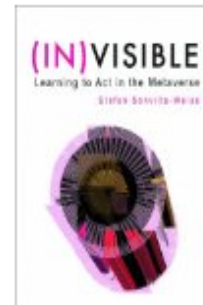


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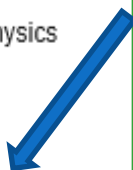
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Carcinogenesis. 2014 Sep 6. pii: bgu187. [Epub ahead of print]

Dietary compound isoliquiritigenin targets GRP78 to ch cancer stem cells via β -catenin/ABCG2 signaling.

Wang N¹, Wang Z², Peng C³, You J¹, Shen J¹, Han S⁴, Chen J⁵.

Author information

Abstract

Accumulating evidence suggests that β -catenin signaling in breast cancer correlated to chemoresistance and ATP binding cassette subfamily G2 (A aberrant β -catenin signaling in CSCs has become a promising strategy to cancer treatment. In a pilot screening study, we found that the natural con blocked β -catenin transcription activity with the highest inhibition ratio. He chemosensitizing effects of ISL on breast CSCs and the underlying mechanisms regulating the β -catenin pathway. ISL could have synergistic effects with chemotherapeutic drugs to inhibit breast cancer cell proliferation and colony formation. In addition, ISL could significantly limit the side population and CSC ratios in breast cancer cells, accompanied by inhibited self-renewal and multi-differentiation abilities. A mechanistic study revealed that ISL could inhibit β -catenin/ABCG2 signaling by activating the proteasome degradation pathway. The drug affinity responsive target stability (DARTS) strategy further identified GRP78 as the direct target of ISL. Subsequent molecular docking analysis and functional studies demonstrated that ISL could dock into the ATP domain of GRP78 and thereby inhibit its ATPase activity, resulting in its dissociation from β -catenin. An in vivo study also suggested that ISL could chemosensitize breast CSCs via the GRP78/ β -catenin/ABCG2 pathway, with little toxicity in normal tissues and mammary stem cells. Taken together, the data from this study not only suggest ISL as a natural candidate to

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