

# Research4Life Programmes/ Searching Skills (Users Course: Module 1)



04 July 2017



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- Background – Research4Life Programmes (HINARI, AGORA, OARE, ARDI)
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- Google vs. (Google) Scholar vs. PubMed
- Boolean & Advanced searching
- Evaluating Web Sites

# Pre-Workshop Questions

- What information/data do you need to do your work more efficiently/effectively?
- Where do you look for the above information?
- Are you satisfied with the quality/quantity of information available?



Access to Research in the Developing World

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PARTNERS  
NEWSLETTER



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Newsletter July 2016  
7th July 2016



Research4life/INA SP  
Advocacy competition on  
Elsevier Connect  
4th July 2016

BLOG

PUBLISHER  
OF THE  
MONTH



**Publisher of the Month:  
Taylor & Francis**  
Our highlighted publisher this  
month is Taylor & Francis  
Group. Taylor & Fran [...]



**A look at AGORA usage in  
the world**  
Africa leads in terms of  
usage, but AGORA has  
considerable presence in  
Asia and Latin America. [...]



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# Goals of Research4Life Programmes (R4L)

- To connect developing world researchers with the international scientific community
- To reduce the 'publishing gap' and improve the quality of locally produced articles and journals
- Ultimately – improve health, food security environment, and development in relation to U.N.'s 2015 – 2030 Sustainability Development Goals
- Available in 115 countries, areas & territories

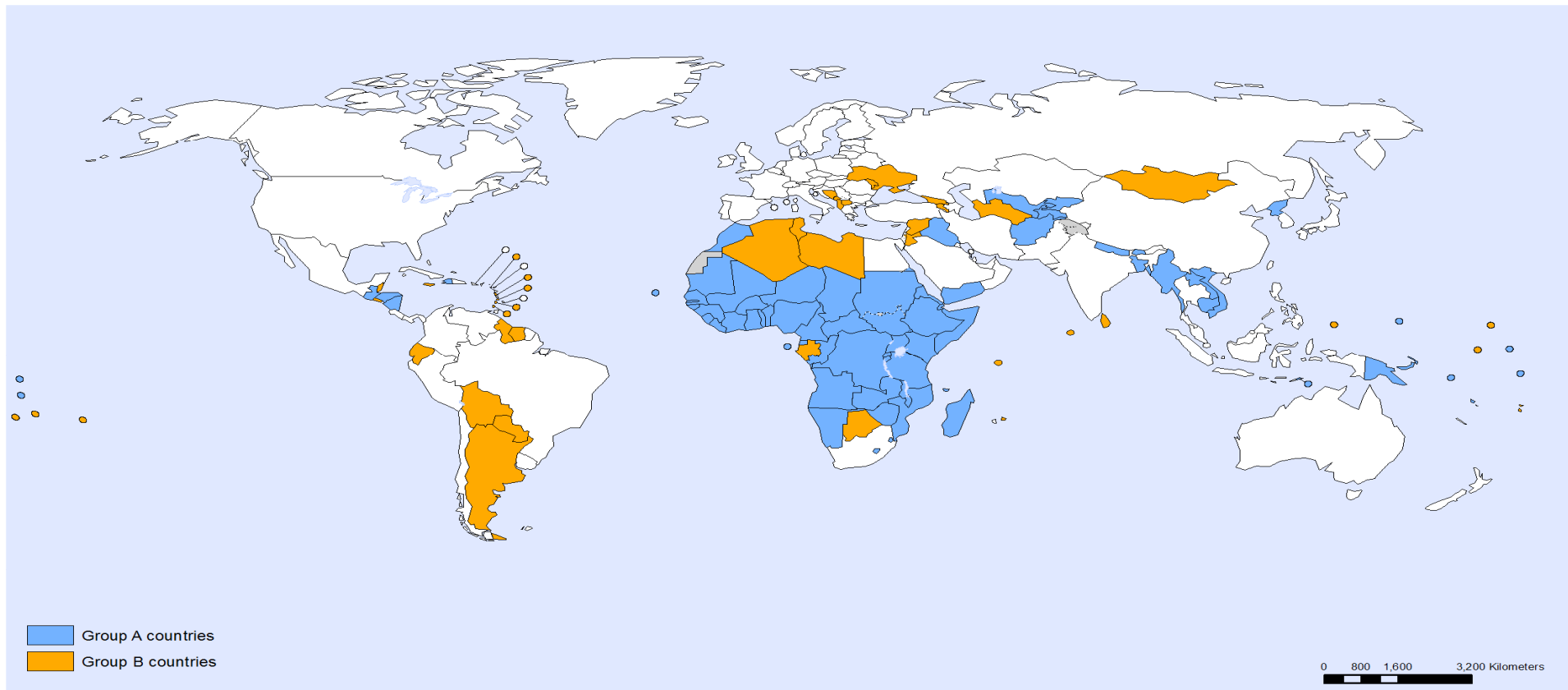
# Primary Target Audiences

- Eligible categories of institutions are:
  - national universities
  - professional schools (medicine, nursing, pharmacy, public health, dentistry)
  - research institutes
  - teaching hospitals
  - government: ministries and agencies
  - national medical libraries
  - locally based non-governmental organizations (NGOs)

All permanent and visiting faculty, staff members and students are entitled to access and can obtain the institutional User Name and Password.

# Who is eligible for R4L Programmes: 116 - total number of countries/areas/territories

## Countries, areas and territories eligible for Research4Life



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines or which there may not yet be full agreement.

Data Source: World Health Organization  
Map Production: Information Evidence and Research (IER)  
World Health Organization



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# Partners

## Key Publishers

- Elsevier
- Springer
- Wiley
- Sage
- Taylor & Francis
- Lippincott/Williams & Wilkins
- BioOne
- Oxford University Press
- Nature Publishing
- Other science/technical/medical publishers

## Programme Partners

- World Health Organization
- Food and Agriculture Organization of the United Nations
- United Nations Environment Programme
- World Intellectual Property Organization
- International Association of Scientific, Technical and Medical Publishers
- Yale University Library
- Cornell University Mann Library
- National Library of Medicine
- Information Training and Outreach Centre for Africa
- Librarians Without Borders®/MLA



Search

Hinari

About Hinari

Access the content

Eligibility

Partners

Training materials

Promoting Hinari

Contributions

## Hinari Access to Research for Health programme

Hinari Programme set up by WHO together with major publishers, enables low- and middle- income countries to gain access to one of the world's largest collections of biomedical and health literature. Up to 15,000 journals (in 30 different languages), up to 47,000 e-books, up to 100 other information resources are now available to health institutions in more than 100 countries, areas and territories benefiting many thousands of health workers and researchers, and in turn, contributing to improve world health.

-  [Map of country breakdown 2016](#)  
png, 121kb
- [Eligible Countries 2016](#)

### Give to Hinari

You can make a difference

### Portuguese Hinari website

[Hinari site in portuguese](#)

### Other Sister Programmes with



[Access to Research4life](#)



[Access to Global Online Research in Agriculture](#)

[Brief video about AGORA](#)



### Research4Life/INASP Advocacy Competition



The Hinari Team would like to invite you to participate in the Research4Life/INASP Advocacy Competition. This is a global case study competition to spotlight how users in the developing world have successfully advocated for a sustainable research culture. The competition is open to all researchers, librarians, policymakers, doctors and other professionals.

[Research4Life/INASP Advocacy](#)

- [Competition](#)
-  [Flyer](#)  
png, 84kb

# Hinari

- Online portal to access information on health and related social sciences
- Coordinated by WHO and Yale University
- Currently, more than 6200 registered institutions
- Offering up to 13,000 journals / 56,000 books / 120 other information resources / 165 publishers' content included [July 2017]

<http://www.who.int/hinari>



Food and Agriculture Organization  
of the United Nations

Google™ Custom Search



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# AGORA

ACCESS TO GLOBAL ONLINE RESEARCH IN AGRICULTURE

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AGORA: What's in a name?

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# AGORA

(Access to Global Online Research in Agriculture)

- Online portal to access information on agriculture and related sciences
- Coordinated by FAO/Cornell University, USA
- More than 3100 registered institutions
- Up to 8,200 journals / 22,000 books / 40 other information resources / 85 publishers' content included [July 2017]

<http://web.unep.org/oare/>



United Nations Environment Programme  
environment for development



# OARE

RESEARCH IN THE ENVIRONMENT

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Build the capacity of national experts, environmental professionals to edge manage fragile ecosystems, protect human health, and manage diverse natural renewable resources more sustainably



Join Our Network

## Welcome

Online Access to Research in the Environment (OARE) is led by the United Nations Environment Programme (UNEP) in partnership with major publishers. The programme enables developing countries to gain access to one of the world's largest collections of environmental science research.

## Latest News

Research4Life: Distance learning: - The courses will be taught from 21 September to 25 October via the ITOCA Moodle Server. Send your registration request to: moodle@itoca.org

Research4Life reaches milestones of 35,000 free and

## Partners



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# OARE

(One Access to Research in the Environment)

- Online portal to access environmental information
- Coordinated by UNEP/Yale University
- More than 3000 registered institutions
- Over 10,000 journals / 22,000 books / 55 other information resources / 80 publishers' content included [July 2017]

<http://www.unep.org/oare>



## ARDI – Research for Innovation

The Access to Research for Development and Innovation (ARDI) program is coordinated by WIPO together with its partners in the publishing industry with the aim to increase the availability of scientific and technical information in developing countries.

By improving access to scholarly literature from diverse fields of science and technology, ARDI seeks to:

- reinforce the capacity of developing countries to participate in the global knowledge economy; and
- support researchers in developing countries in creating and developing new solutions to technical challenges faced on a local and global level.

Currently, 31 publishers provide access to around 28,000 journals, books, and reference works for 117 developing countries and territories through ARDI.



(PHOTO: ISTOCKPHOTO.COM/VIORIKA)

# ARDI

(Access to Research for Development and Innovation )

- Online portal to access development and innovation research; ARDI was launched by the World Intellectual Property Organization in 2009 and joined R4L in 2011
- Supports researchers in developing countries in creating and developing new solutions to technical challenges faced on a local and global level
- More than 1000 registered institutions. Up to 7,800 journals; 21,000 books; 25 other resources; 40 publishers' content [July 2017]

<http://www.wipo.int/ardi>



# R4L Resources Usage: Do Share

Institution's R4L usernames and passwords with:

- Authorized Users: an institution's employee, permanent or visiting faculty or student
- Walk-in Users: anyone who comes to the institution's premises and is permitted by the institution to access services there

Note: Access from remote access is permissible but limited to computers owned personally by employees or by institution

# Copyright and Fair Use

- Is the same as typical copyright and fair use principles; it is OK to:
- Download or print up to 15% of a journal issue or book
- Use material for educational purposes (course packs or reserves)
- Make copies for institution members or students

Note: Always credit sources

# Abuse of Privileges: Do Not

- Share usernames and passwords with those from outside the institution
- Supply documents to individuals or organizations outside the registered institution
- Charge a fee for supplying documents except to recover cost of printing
- Use R4L programmes when outside the country

## Do Not (continued)

- Upload or post the material to a publicly available website or elsewhere
- Post usernames and passwords to websites or blogs that are publically accessible

Note: Violations result in the institution or possibly entire country denied access until the problem is resolved. If your institution's password does not work for several days, it may have been compromised. **DO NOT REGISTER AGAIN.** Report this to [r4l@research4life.org](mailto:r4l@research4life.org) and always including your UserID.

# Gateway – subject specific

- Library gateways are collections of databases and informational sites, arranged by subject, that have been assembled, reviewed and recommended by specialists
- Gateway collections support research and reference needs by identifying and pointing to recommended, academically-oriented pages on the Web. Examples:
  - WHO A-Z health topics list
  - Yale University – Forestry and Environmental Studies Alumni Research Guide

University of South Carolina, Beaufort Library, 15 June 2015  
[www.sc.edu/beaufort/library/pages/bones/lesson4.shtml](http://www.sc.edu/beaufort/library/pages/bones/lesson4.shtml)

# Web Search Engine

- A software system that is designed to search for information on the WWW. Results are presented in a line of results often referred to as search engine results pages (SERPs).
- Information may be a mix of web pages images, and other types of files. Some search engines also mine data available in databases.
- Also maintain real-time information by running an algorithm on a web crawler. Examples:
  - Google
  - Google Scholar (more academic)
  - Yahoo

[en.wikipedia.org/wiki/Web\\_search\\_engine](http://en.wikipedia.org/wiki/Web_search_engine) 15 June 2015

16 June 2017

[Web](#)[Images](#)[Books](#)[Videos](#)

About 1,690,000 results (0.30 seconds)

This is how Google presents the results of your HINARI search. The most relevant cite is organized into sections.

## WHO | HINARI Access to Research in Health Programme

[www.who.int/hinari/en/](http://www.who.int/hinari/en/) World Health Organization

HINARI Programme set up by WHO together with major publishers, enables low- and middle- income countries to gain access to one of the world's largest ...

### HINARI Access to Research

HINARI - Enabling the developing world to access health research ...

### Eligibility

Eligibility. HINARI Core Offer includes two groups of countries ...

### About HINARI

About HINARI. HINARI Access to Research in Health Programme ...

### Training Materials

Training Materials. Distance learning courses. The HINARI ...

### HINARI - List of Journals

Full access to this content for everyone. You must log in to ...

### Journals by Title

Find by: Subject - Language - Publisher. Journals by Title ...

[More results from who.int »](#)

## Health Internetwork - Health Articles and Unbiased Reviews

[www.healthinternetwork.org/](http://www.healthinternetwork.org/)

By Hinari on July 2, 2014 Leave a Comment - how to seduce him. Do you wish your love was just like in the movies? The man who cares about you, commits to ...

## HINARI - Wikipedia, the free encyclopedia

[en.wikipedia.org/wiki/HINARI](http://en.wikipedia.org/wiki/HINARI) Wikipedia

HINARI, as it is commonly abbreviated stands for Health InterNetwork Access to Research Initiative. It was set up by the World Health Organization and major ...

scholar.google.com

More... lenny.

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Google scholar

Articles (include patents) Case law

**Google Scholar** provides a simple way to broadly search for scholarly literature. You can search across many disciplines and sources: peer-reviewed papers, theses, books, abstracts and articles, from academic publishers, professional societies, preprint repositories, universities and other scholarly organizations.



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Web Images More... Sign in

Google hinari

Scholar About 296,000 results (0.02 sec)

Articles

Case law

My library

Any time

Since 2015

Since 2014

Since 2011

Custom range...

Sort by relevance

Renin-angiotensin system stimulates erythropoietin ... V Papachristopoulos, P Vassilakos, E Hinari... - Clinical ...

A series of observations suggests an interrelationship between the renin-angiotensin system (RAS) and erythropoietin (EPO) secretion. To further evaluate the role of RAS in erythropoiesis of chronic hemodialysis patients, we studied two groups of such patients: ...

Cited by 58 Related articles All 4 versions Cite Save More

HINARI: bridging the global information divide

SV Katikireddi - BMJ, 2004 - bmj.com

WHO realised that the recent revolution in information technology had opened up an opportunity for addressing information poverty. Compared with the £50 or more that it costs to send a paper copy of a weekly journal to an institution in Africa for a year, it costs publishers virtually ...

Cited by 81 Related articles All 10 versions Cite Save

[HTML] Biomedical journals and global poverty: Is HINARI a step backwards?

J Villafuerte-Galvez, WH Curioso, O Gayoso - PLoS Medicine, 2007 - dx.plos.org

[HTML] from nih.gov Full-Text @ My Library

[HTML] from plos.org Full-Text @ My Library

[HTML] from wiley.com Full-Text @ My Library

Cited by 30 Related articles All 3 versions Cite Save

In Google Scholar, the HINARI results are either an article about the program or one with HINARI being the author's name.

Note that, in the right column, there are full-text access links to the articles. If an Open Access journal (nih or plos), the link will work. For the commercial publishers, you may have access to Hinari journals via the Scholar links or the Hinari Journals collection A-Z list. or you will be asked to login or pay for the article.

← → ↻ ↑ 🔍 scholar.google.com/advanced\_scholar\_search?hl=en&as\_sdt=0,10

UF GatorLink Webmail ... The New York Time... Other bookmarks

+You Web Images Videos Maps News Gmail More - HINARI Trainers - ⚙

# Google scholar Advanced Scholar Search

[Advanced Search Tips](#) | [About Google Scholar](#)

**Find articles**

with **all** of the words

with the **exact phrase**

with **at least one** of the words

**without** the words

where my words occur

**Author** Return articles written by   
e.g., "PJ Hayes" or McCarthy

**Publication** Return articles published in   
e.g., J E

**Date** Return articles published between   
e.g., 19

**Collections**

**Articles and patents**

Search articles in all subject areas ( include patents).

Search only articles in the following subject areas:

Biology, Life Sciences, and Environmental Science  Medicine, Pharmacology, and Veterinary Science

Business, Administration, Finance, and Economics  Physics, Astronomy, and Planetary Science

Chemistry and Materials Science  Social Sciences, Arts, and Humanities

Engineering, Computer Science, and Mathematics

**Legal opinions and journals**

Search all legal opinions and journals

Search opinions of

Search opinions of   courts..

Results per page:

**We have displayed the Advanced Scholar Search option of Google Scholar. Note the various options for refining a search and also that you can change the number of results per page.**

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# Databases – subject specific

- Devoted to a single subject; created by researchers, experts, governmental agencies and other subject specialists who have professional knowledge of a particular field and have accumulated information and data about it.

University of South Carolina, Beuford Library, 15 June 2015  
[www.sc.edu/beaufort/library/pages/bones/lesson4.shtml](http://www.sc.edu/beaufort/library/pages/bones/lesson4.shtml)

- A collection of information organized in such a way that a computer can quickly select desired pieces of data/an electronic filing system with search tools
- Organized by fields, records and files
- Examples:
  - PubMed - a free search tool to over 27 million citations
  - SCOPUS – Elsevier’s abstract and citation database of peer-reviewed literature



## PubMed

PubMed comprises more than 26 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.

### Using PubMed

[PubMed Quick Start Guide](#)

[Full Text Articles](#)

[PubMed FAQs](#)

[PubMed Tutorials](#)

[New and Noteworthy](#)

### PubMed Tools

[PubMed Mobile](#)

[Single Citation Matcher](#)

[Batch Citation Matcher](#)

[Clinical Queries](#)

[Topic-Specific Queries](#)

### More Resources

[MeSH Database](#)

[Journals in NCBI Databases](#)

[Clinical Trials](#)

[E-Utilities \(API\)](#)

[LinkOut](#)

### Latest Literature

New articles from highly accessed journals

[Cancer Res \(1\)](#)

[Circulation \(33\)](#)

[Cochrane Database Syst Rev \(3\)](#)

[J Biol Chem \(4\)](#)

[J Clin Endocrinol Metab \(9\)](#)

[JAMA \(36\)](#)

[Lancet \(42\)](#)

### Trending Articles

PubMed records with recent

Strength, body composition, squat versus leg press exercise  
[J Sports Med Phys Fitness. 2016](#)

Reconstitution in vitro of the entire cycle of the mouse female germ line.  
[Nature. 2016.](#)

Single-cell RNA-seq identifies a PD-1<sup>hi</sup> ILC progenitor and defines its developmental pathway.  
[Nature. 2016.](#)

Little Baccanone or little Einstein? Probability and explanatory

**PubMed** will be discussed at length in Module 3. There are 27 million citations in this (USA) National Library of Medicine database.

Oct 20

[@CSI\\_KCL Journal Club discusses evidence gaps in managing breathlessness at end of life. bit.ly/2cSCbts](#)

Oct 19

Evaluating systematic review of LDL & mortality: D Nunan (@dnunan79) shares group's summary of methodological flaws. [bit.ly/2cAeISY](#)

Oct 18

b reviews rats.

16 June 2017

# Google (search engine)

## Advantages

- Searches articles, books and webpages
- Has advanced search options
- Can limit search by dates, document types, language, domain and more

## Disadvantages

- No indexing terms
- Huge retrieval of almost any topic
- No ability to select citations for downloading or printing
- Built in relevancy ranking based on times cited
- Cannot limit to journal articles

# Google Scholar (search engine)

## Advantages

- Searches journals, books and more academic sources
- Can download individual citations into bibliographic managers
- Contains citing information with links to sources citing a specific term

## Disadvantages

- No indexing terms
- Huge retrieval of almost any topic
- No ability to select citations for downloading or printing
- Built in relevancy ranking based on times cited that...
- May result in bias toward older literature

# PubMed (database)

## Advantages

- Well indexed using Medical Subject Headings (MeSH)
- Can 'explode' terms
- Contains 5,609 current journals in health sciences
- Includes citations of e-journals prior to publication
- Can download info to bibliographic managers
- Can select citations to download or print

## Disadvantages

- Access limited almost exclusively to basic and health sciences journals that are indexed in the database
- Does not search full-text of articles

# Search: hospital infections developing countries

(performed 20 October 2016)

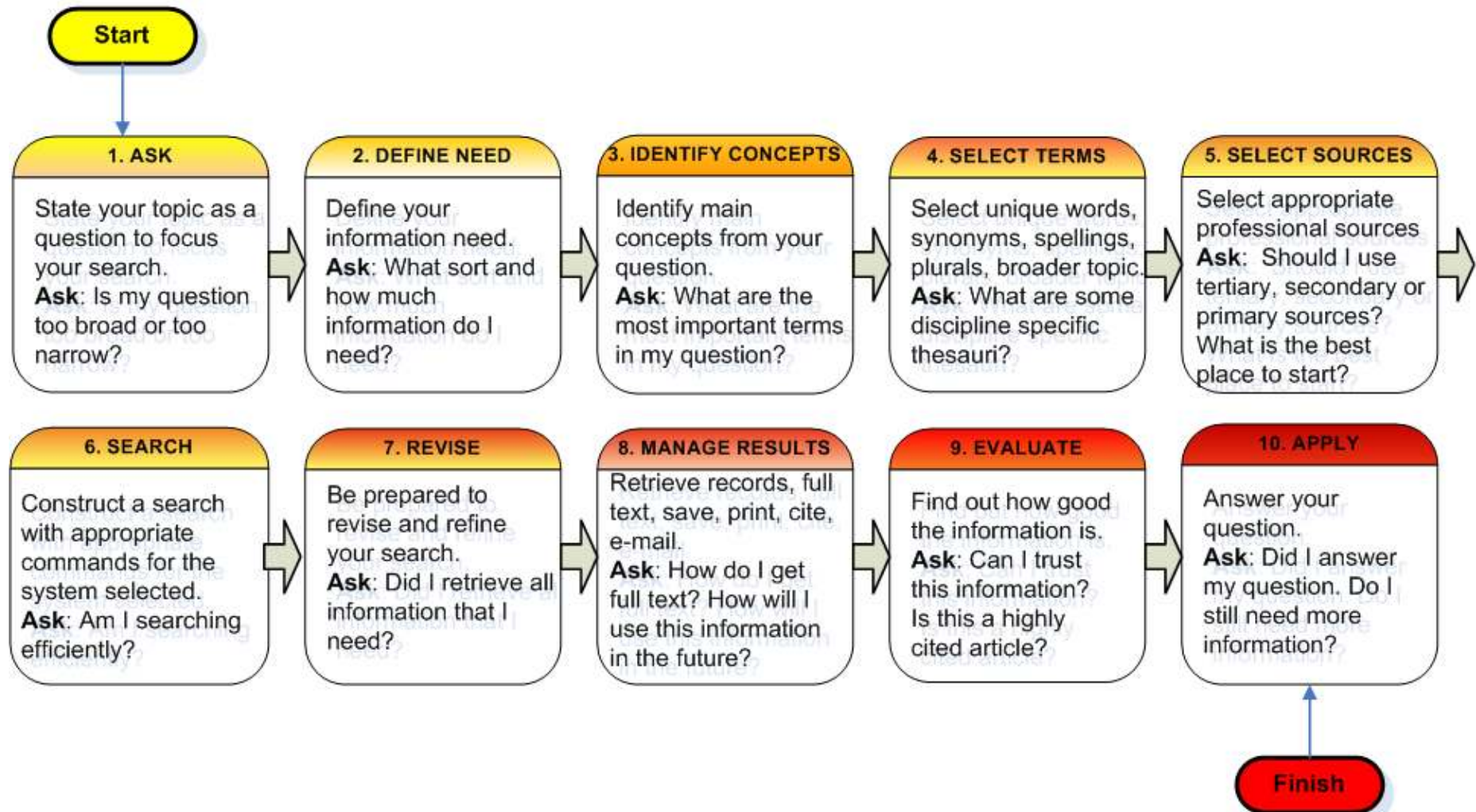
- **Google:** 2,390,000 citations; first citation – July 2011; *World Health Organization*  
in 1<sup>st</sup> 50 articles, no 2016 citations listed
- **Google Scholar:** 1,110,000 citations; first citation – March 2005; *The Lancet*  
# in 1<sup>st</sup> 50 articles, no 2016 citations listed
- **PubMed:** 5426; first citation – October 2016; *American Journal of Infection control*  
articles ‘sorted by recently added’ date  
(not ‘sorted by relevance’ although this is an option)



# Why Search Strategy is Important?

- Health care includes the provision of information to consumers or professionals (reliable, accurate, up-to-date)
- Information explosion- billions of documents in the WWW; hard to find the 'needle in the hay stack' and know which source is best for a specific situation;
- Evidence-Based Medicine - clinicians are not using enough evidence in practice
- Systematic search strategy should be adopted when dealing with clinical questions to avoid 'information malpractice'

# Developing a Search Strategy: Process Overview



**Remember:** Your question drives the search strategy. There is no one best way to search. Avoid one stop searching to prevent bias.

# Example (Steps 1-4)

1. Ask: What **health** problems are associated with **water pollution**?
2. Need: scholarly primary research
3. Main Concepts: health, water, pollution
4. Select terms:
  - Broader terms: ‘health’ , environmental degradation’ , ‘agricultural management’ ,
  - Synonyms:  
**health**, illness, disease, etc.  
**water**, rivers, lakes, sea, domestic water, etc.  
**pollution**, ‘oil spills’ , chemical, biological, toxicity, etc
  - Alternative spellings: none
  - Plurals: river(s), lake(s), disease(s)
  - Capitals: e.g. name of a specific lake, disease, region

# Select a Source (Step 5)

## Tertiary Sources

ADVANTAGES	DISADVANTAGES
Easy access	Lag Time
Ease of use	Outdated
Concise	Incomplete information
Relatively inexpensive	Incorrect interpretation

## Secondary Sources

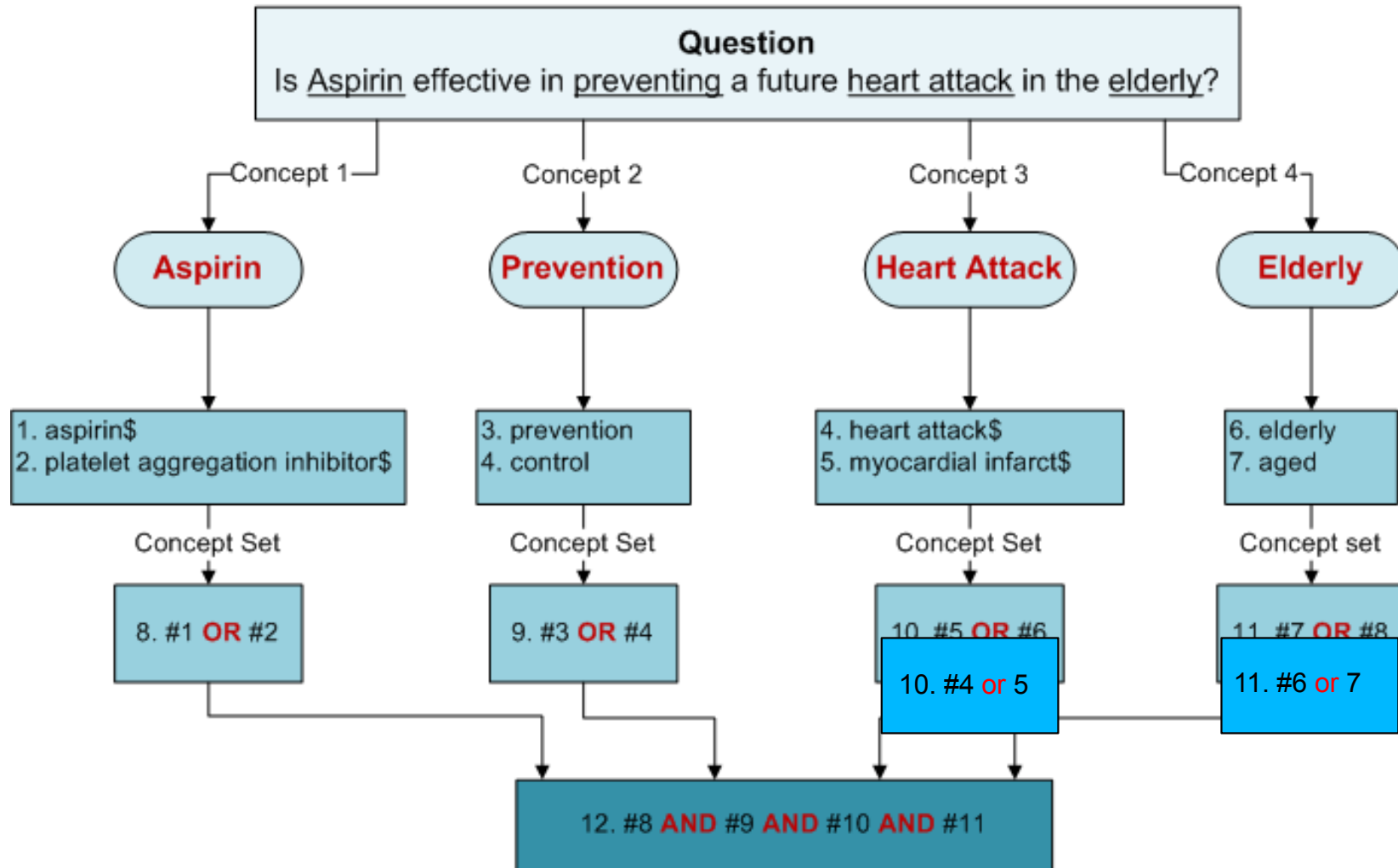
ADVANTAGES	DISADVANTAGES
Rapid access to the primary literature	Lag time
Generally high standard journals	Command language varies
Ability to perform complex searches	Proficient search skills are needed
Routine updates on selected topics (alerts)	Can be expensive

## Primary Sources

ADVANTAGES	DISADVANTAGES
Original data	Large volume data
Unbiased information	Time consuming

# Search Construction

Construct a Search using Appropriate Commands and Best Practices



When searching enter one term/phrase at a time; keep terms in separate concept sets; combine search terms with OR first; then with AND.

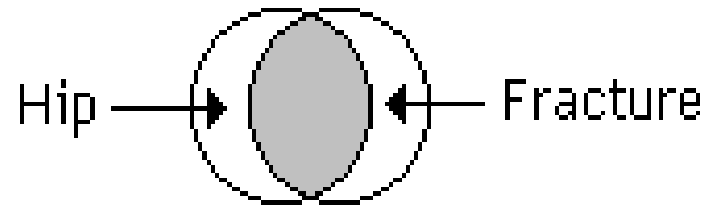
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# Boolean (Search) Operators

- connect terms and locate records containing matching terms
- inserted in a search box – **AND, OR, NOT**
- AND, NOT operators are processed in a left- to right sequence. These are processed first before the OR operators
- OR operators are also processed from left- to-right

# AND Operator

(to combine two concepts and narrow a search)



hip **AND** fracture

the **AND** operator is used to combine two concepts e.g. hip **AND** fracture – in the shaded area; retrieves items containing all the search terms

← → ↻ 🏠  ☆ 🌐 ⋮  
UF GatorLink Webmail ... 📄 📄 The New York Time... 📄 Other bookmark  
Web Images More... Sign in

Google  🔍

Scholar About 754,000 results (0.07 sec) Any time ▾ ▼

[Bone density, osteoarthritis of the hip, and fracture of the upper end of the femur.](#)

[bmj.com \[PDF\]](#)

MV Foss, PD Byers - *Annals of the rheumatic diseases*, 1972 - [ard.bmj.com](#)

Surgeons have often noticed the general absence of osteoarthritis in the head of the femur excised in the treatment of **fracture** of the femoral neck. Ball (1966) confirmed this impression from his personal experience in the laboratory; this stimulated Byers, Contepomi, and ...

Cited by 243 Related articles All 9 versions Cite

[Impact near the hip dominates fracture risk in elderly nursing home residents who fall](#)

WC Hayes, ER Myers, JN Morris, TN Gerhart... - *Calcified Tissue ...*, 1993 - Springer

Summary **Hip** fractures among the elderly are a significant and rapidly growing public health problem. The prevailing view is that most **hip** fractures are the consequence of age-related bone loss or osteoporosis. However, because over 90% of **hip** fractures are the result of ...

Cited by 282 Related articles BL Direct All 4 versions Cite

[Total hip arthroplasty after fracture of the acetabulum. Long-term results](#)

[boneandjoint.org.uk \[PDF\]](#)

DW Romness, DG Lewallen - *Journal of Bone & Joint ...*, 1990 - [bjj.boneandjoint.org.uk](#)

Abstract We made a retrospective study of 55 primary total **hip** arthroplasties in 53 patients with a history of previous acetabular **fracture**. The mean follow-up was 7.5 years and the average age at **fracture** was 48.7 years. The incidence of radiographic femoral loosening ( ...

Cited by 119 Related articles All 8 versions Cite

[CITATION] Traumatic posterior **fracture**-dislocation of the **hip** with **fracture** of the femoral head or neck, or both

[jbjs.org \[PDF\]](#)

K Hougaard, PB Thomsen - *J Bone Joint Surg Am*, 1988

Cited by 83 Related articles All 5 versions Cite

[Primary vitallium-mold arthroplasty for posterior dislocation of the hip with fracture of the femoral head](#)

[jbjs.org \[PDF\]](#)

PJ Kelly, PR Lipscomb - *The Journal of Bone & Joint Surgery*, 1958 - [jbjs.org](#)

Abstract **Fracture** of the femoral head associated with posterior dislocation is rare. Although our experience is small, we present these cases because in them treatment carried out soon after the injury was more active than in most cases recorded in the literature.

Cited by 38 Related articles All 6 versions Cite

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  - Practice Guideline
  - Randomized Controlled Trial
  - Review
  - Systematic Reviews
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Display Settings: Summary, 20 per page, Sorted by Recently Added Send to:

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- < First < Prev Page 1 of 1172 Next > Last >>
- [Genome-wide profiling of bone reveals differentially methylated regions in osteoporosis and osteoarthritis.](#)  
Delgado-Calle J, Fernández AF, Sainz J, Zarrabeitia MT, Sañudo C, García-Renedo R, Pérez-Núñez MI, García-Ibarbia C, Fraga MF, Riancho JA.  
Arthritis Rheum. 2012 Nov 2. doi: 10.1002/art.37753. [Epub ahead of print]  
PMID: 23124911 [PubMed - as supplied by publisher]  
[Related citations](#)
  - [Difference in subchondral cancellous bone between postmenopausal women with hip Osteoarthritis and osteoporotic fracture: Implication for fatigue microdamage, bone microarchitecture and biomechanical properties.](#)  
Li ZC, Dai LY, Jiang LS, Qiu S.  
Arthritis Rheum. 2012 Nov 1. doi: 10.1002/art.34670. [Epub ahead of print]  
PMID: 23124609 [PubMed - as supplied by publisher]  
[Related citations](#)
  - [Three to seven year follow-up of a tapered modular femoral prosthesis in revision total hip arthroplasty.](#)  
Wang L, Dai Z, Wen T, Li M, Hu Y.  
Arch Orthop Trauma Surg. 2012 Nov 3. [Epub ahead of print]  
PMID: 23124491 [PubMed - as supplied by publisher]  
[Related citations](#)

Filters: Manage Filters

Results by year



Titles with your search terms

- [Hip fracture management: tailoring care for the older patient \[JAMA. 2012\]](#)
- [Use of proton pump inhibitors and risk of hip fracture in re \[BMJ. 2012\]](#)
- [Physical exercise after hip fracture: an ev \[Eur J Phys Rehabil Med. 2011\]](#)

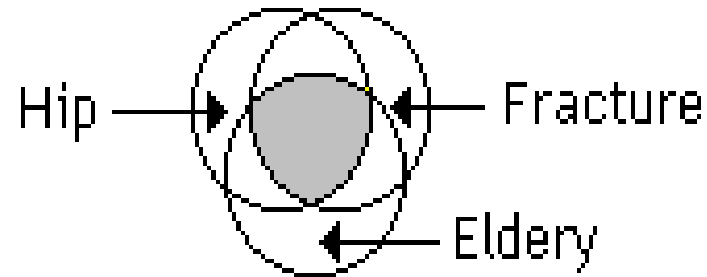
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- [Low admission Norton scale scores are associate \[Clin Interv Aging. 2012\]](#)
- [Timing Matters in Hip Fracture Surgery: Patients \(PLoS One. 2012\]](#)

16 June 2017

# AND Operator (to combine three concepts)



hip **AND** fracture **AND** elderly

the **AND** operator is used to combine three concepts e.g. hip **AND** fracture **AND** elderly – in the shaded area.

← → ↻ 🏠 scholar.google.com/scholar?q=hip+AND+fracture+AND+elderly&btnG=&hl=en&as\_sdt=0%2C10 ☆ 🌐

UF GatorLink Webmail ... 📄 🌐 The New York Time... 📄 📁 Other bookmark

Web Images More... Sign in

Google hip AND fracture AND elderly 🔍

Scholar About 138,000 results (0.07 sec) Any time ▾ ▼

[Ultrasonographic heel measurements to predict hip fracture in elderly women: the EPIDOS prospective study](#)

[thelancet.com \[HTML\]](#)

D Hans, P Dargent-Molina, AM Schott, JL Sebert... - The Lancet, 1996 - Elsevier

BACKGROUND: The ability of ultrasonographic measurements to discriminate between patients with **hip fracture** and age-matched controls has until now been tested mainly through cross-sectional studies. We report the results of a prospective study to assess the ...

Cited by 973 Related articles BL Direct All 10 versions Cite

[Markers of bone resorption predict hip fracture in elderly women: the EPIDOS Prospective Study](#)

[progeninc.co.kr \[PDF\]](#)

P Garnero, E Hausherr, MC Chapuy... - Journal of Bone and ..., 2009 - Wiley Online Library

Abstract Increased bone turnover has been suggested as a potential risk factor for osteoporotic fractures. We investigated this hypothesis in a prospective cohort study performed on 7598 healthy women more than 75 years of age. One hundred and twenty- ...

Cited by 812 Related articles BL Direct All 8 versions Cite

[Effect of risedronate on the risk of hip fracture in elderly women](#)

[vademecum.es \[PDF\]](#)

MR McClung, P Geusens, PD Miller... - New England journal ..., 2001 - Mass Medical Soc

We studied 5445 women 70 to 79 years old who had osteoporosis (indicated by a T score for bone mineral density at the femoral neck that was more than 4 SD below the mean peak value in young adults [-4] or lower than -3 plus a nonskeletal risk factor for **hip fracture**, such as ...

Cited by 1589 Related articles BL Direct All 25 versions Cite

[Prevention of hip fracture in elderly people with use of a hip protector](#)

[hospitalitaliano.org.ar \[PDF\]](#)

P Kannus, J Parkkari, S Niemi... - New England journal ..., 2000 - Mass Medical Soc

We randomly assigned 1801 ambulatory but frail **elderly** adults (1409 women and 392 men; mean age, 82 years), in a 1:2 ratio, either to a group that wore a **hip** protector or to a control group. Fractures of the **hip** and all other fractures were recorded until the end of the first ...

Cited by 533 Related articles BL Direct All 13 versions Cite

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**Species**

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- Other Animals

**Article types**

- Clinical Trial
- Meta-Analysis
- Practice Guideline
- Randomized Controlled Trial
- Review
- Systematic Reviews
- more ...

**Languages**

- English

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<< First < Prev Page  of 793 Next > Last >>

- [\[Comparison of three methods for the treatment of aged femoral intertrochanteric fracture\].](#)  
Huang CG, Ye JJ.  
Zhongguo Gu Shang. 2012 Jul;25(7):549-53. Chinese.  
PMID: 23115983 [PubMed - in process]  
[Related citations](#)
- [Is chronic hyponatremia a novel risk factor for hip fracture in the elderly?](#)  
Carlos Ayus J, Negri AL, Kalantar-Zadeh K, Moritz ML.  
Nephrol Dial Transplant. 2012 Oct;27(10):3725-31. doi: 10.1093/ndt/gfs412.  
PMID: 23114899 [PubMed - in process]  
[Related citations](#)
- [Increased 1-year mortality rates among elderly hip fracture patients with atrial fibrillation.](#)  
Adunsky A, Arad M, Koren-Morag N, Fleissig Y, Mizrahi EH.  
Aging Clin Exp Res. 2012 Jun;24(3):233-8.  
PMID: 23114549 [PubMed - in process]  
[Related citations](#)
- [Validation of the Spanish version of the Lawton IADL Scale for its application in elderly people.](#)  
Vergara I, Bilbao A, Orive M, Garcia-Gutierrez S, Navarro G, Quintana JM.  
Health Qual Life Outcomes. 2012 Oct 30;10(1):130. [Epub ahead of print]  
PMID: 23110491 [PubMed - as supplied by publisher] **Free Article**  
[Related citations](#)

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**Results by year**



**Titles with your search terms**

- Combined calcium and vitamin D3 supplementati [Osteoporos Int. 2002]
  - Systematic review of **hip fracture** rehab [Arch Phys Med Rehabil. 2009]
  - Prevention of **hip fracture** in elderly people with use [N Engl J Med. 2000]
- [See more...](#)

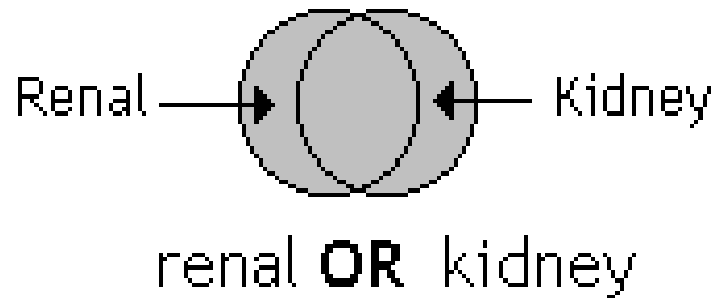
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- Low admission Norton scale scores are associate [Clin Interv Aging. 2012]
- Timing Matters in **Hip Fracture** Surgery: Patients ( [PLoS One. 2012]
- Cerebral oximetry **and** cognitive dysfunction in [Open Orthop J. 2012]

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# OR Operator

(info containing one or other term;  
will broaden a search)



renal **OR** kidney – in the shaded area with the overlap in the middle having both search terms; retrieves items containing either search term or both search terms

← → ↻ 🏠 scholar.google.com/scholar?q=kidney+OR+renal&btnG=&hl=en&as\_sdt=0%2C10

UF GatorLink Webmail ... The New York Time... Other bookmark

Web Images More... Sign in

Google kidney OR renal

Scholar About 2,780,000 results (0.07 sec) Any time

[CITATION] The polycystic **kidney** disease 1 gene encodes a 14 kb transcript and lies within a duplicated region on chromosome 16

EPKDC The - Cell, 1994 - Elsevier Science  
Cited by 445 Related articles Cite

[Genome-wide atlas of gene expression in the adult mouse brain](#)

[sinica.edu.tw \[PDF\]](#)

..., DP Jeung, RA Johnson, PT Karr, R Kawal, JM **Kidney**... - Nature, 2006 - nature.com

Abstract Molecular approaches to understanding the functional circuitry of the nervous system promise new insights into the relationship between genes, brain and behaviour. The cellular diversity of the brain necessitates a cellular resolution approach towards ...  
Cited by 1069 Related articles BL Direct All 14 versions Cite

[PDF] [ACC/AHA Practice Guidelines](#)

[ucsf.edu \[PDF\]](#)

M **Renal** - Circulation, 2006 - gdiv.ucsf.edu

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It is important that the medical professions play a significant role in critically evaluating the use of diagnostic procedures and therapies in the detection, management, and prevention of disease states. Rigorous and expert analysis of the available data documenting absolute ...  
Cited by 671 Related articles All 34 versions Cite More ▾

[CITATION] Clinical practice guidelines for vascular access

National **Kidney** Foundation - 1997 - the Foundation  
Cited by 220 Related articles Cite More ▾

[CITATION] Diabetes in America

..., Digestive, **Kidney** Diseases (US) - 1995 - ... Diabetes and Digestive and **Kidney** ...  
Cited by 323 Related articles All 2 versions Cite

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Humans  
Other Animals

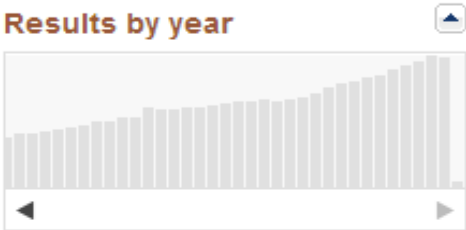
Article types  
Clinical Trial  
Meta-Analysis  
Practice Guideline  
Randomized Controlled Trial  
Review

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

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- [Interference of the new oral anticoagulant dabigatran with frequently used coagulation tests.](#)  
Halbmayer WM, Weigel G, Quehenberger P, Tomasits J, Haushofer AC, Aspoeck G, Loacker L, Schnapka-Koepf M, Goebel G, Griesmacher A. Clin Chem Lab Med. 2012 Sep;50(9):1601-5. PMID: 23125992 [PubMed - in process] [Related citations](#)
- [Neutrophil gelatinase-associated lipocalin as a biomarker of cardiovascular disease: a systematic review.](#)  
Cruz DN, Gaião S, Maisel A, Ronco C, Devarajan P. Clin Chem Lab Med. 2012 Sep;50(9):1533-45. PMID: 23125988 [PubMed - in process] [Related citations](#)
- [Neutrophil gelatinase-associated lipocalin as a new biomarker in laboratory medicine.](#)  
Makris K, Rizos D, Kafkas N, Haliassos A. Clin Chem Lab Med. 2012 Sep;50(9):1519-32. PMID: 23125987 [PubMed - in process] [Related citations](#)

Filters: Manage Filters



Titles with your search terms

- K/DOQI clinical practice guidelines for chronic k [Am J Kidney Dis. 2002]
- Renal angiomyolipoma: optimal treatment based [Clin Nephrol. 1998]
- The effects of lowering LDL cholesterol with simva: [Lancet. 2011]

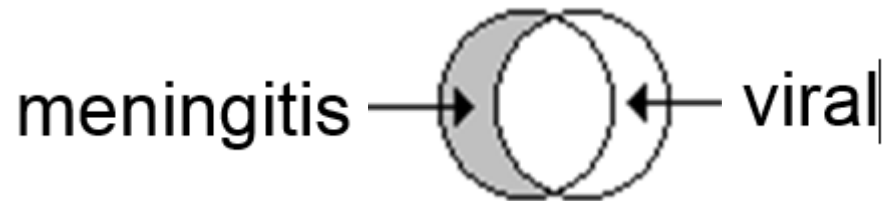
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62637 free full-text articles in PubMed Central

Observation as a treatment strategy for advanced reni [Front Oncol. 2012]

# NOT Operator

(in one term or the other - will narrow a search)



meningitis **NOT** viral

meningitis **NOT** viral – in the shaded area; eliminates items in 2<sup>nd</sup> term (viral) or both terms; search results will contain bacterial meningitis

Note: **NOT** does not work in Scholar and possible would eliminate some useful references; use judiciously



Article types

- Clinical Trial
- Review
- Customize ...

Text availability

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- Free full text
- Full text

PubMed Commons

Reader comments

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- 10 years
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Species

- Humans
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<< First < Prev Page 1 of 2867 Next > Last >>

- [A novel recombinant BCG-expressing pro-apoptotic protein BAX enhances Th1 protective immune responses in mice.](#)  
1. Li G, Liu G, Song N, Kong C, Huang Q, Su H, Bi A, Luo L, Zhu L, Xu Y, Wang H. Mol Immunol. 2015 May 2;66(2):346-356. doi: 10.1016/j.molimm.2015.04.003. [Epub ahead of print]  
PMID: 25942359  
[Related citations](#)
- [Tdap Vaccine Effectiveness in Adolescents During the 2012 Washington State Pertussis Epidemic.](#)  
2. Acosta AM, DeBolt C, Tasslimi A, Lewis M, Stewart LK, Misegades LK, Messonnier NE, Clark TA, Martin SW, Patel M. Pediatrics. 2015 May 4. pii: peds.2014-3358. [Epub ahead of print]  
PMID: 25941309  
[Related citations](#)
- [First Pertussis Vaccine Dose and Prevention of Infant Mortality.](#)  
3. Tiwari TS, Baughman AL, Clark TA. Pediatrics. 2015 May 4. pii: peds.2014-2291. [Epub ahead of print]  
PMID: 25941302  
[Related citations](#)

**New feature**

Try the new Display Settings option - Sort by Relevance

**Results by year**



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**Titles with your search terms**

- Herpes simplex virus infections of the central nervous system: [Herpes. 2004]
- Chapter 28: a history of bacterial meningitis. [Handb Clin Neurol. 2010]
- Corticosteroids for acute bacterial meningitis [Cochrane Database Syst Rev. 2013]

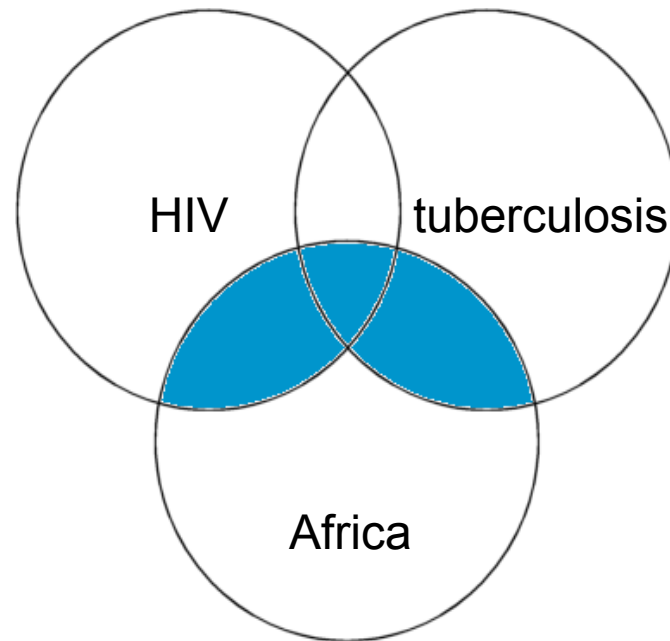
See more...

# Other search engine functions

- **Phrase or Proximity Searching:** “...” or (...)
  - allows you to search for an exact phrase
  - “information literacy” **or** (malaria parasite)
- **Truncation:** \* or \$
  - allow you to search for singular and plural spellings  
child\* for child OR childs OR children  
parasite\* for parasite OR parasites
- **Wildcard or Alternate Spellings:** ?
  - can be used to substitute for characters anywhere in a word  
wom?n would search for “woman” and “women”

For more detail and examples for Hinari resources, see  
Hinari\_Users\_Course\_Module\_1\_Appendix

# Africa AND (HIV OR tuberculosis)



Africa AND (HIV or tuberculosis) – in the shaded area

The **(OR)** operator retains items in each term and the **AND** operator is used to combine two concepts

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Clinical Trial  
Meta-Analysis  
Practice Guideline  
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**Display Settings:** [v] Summary, 20 per page, Sorted by Recently Added **Send to:** [v]

**Results: 1 to 20 of 29954**

<< First < Prev Page 1 of 1498 Next > Last >>

- [Reply to Boyles: testing for lipoarabinomannan in patients with advanced immunodeficiency - much to gain and little to lose.](#)  
Lawn SD, Kerkhoff AD, Wood R.  
AIDS. 2012 Nov 13;26(17):2264-5. doi: 10.1097/QAD.0b013e328357329b. No abstract available.  
PMID: 23123522 [PubMed - in process]  
[Related citations](#)
- [The pros and cons of urinary lipoarabinomannan testing.](#)  
Boyles TH.  
AIDS. 2012 Nov 13;26(17):2263-4. doi: 10.1097/QAD.0b013e3283573286. No abstract available.  
PMID: 23123521 [PubMed - in process]  
[Related citations](#)
- [The use of dual or two methods for pregnancy and HIV prevention amongst 18-24-year-olds in a cross-sectional study conducted in South Africa.](#)  
Seutlwadi L, Peltzer K.  
Contraception. 2012 Oct 31. doi:pii: S0010-7824(12)00878-5. 10.1016/j.contraception.2012.09.026. [Epub ahead of print]  
PMID: 23121823 [PubMed - as supplied by publisher]  
[Related citations](#)

**Filters:** [Manage Filters](#)

**Results by year** [v]



**Titles with your search terms** [v]

- [Socio-cultural factors affecting the spread of H \[Afr J Med Med Sci. 2004\]](#)
  - [Complementary factors contributing to the rapid sp \[East Afr Med J. 2005\]](#)
  - [A randomized controlled trial of hi \[J Acquir Immune Defic Syndr. 2...\]](#)
- [See more...](#)

**5466 free full-text articles in PubMed Central** [v]

- [Outcomes of Multidrug-Resistant Tuberculosis Treat \[PLoS One. 2012\]](#)
- [Pneumocystis jirovecii Pneumonia in](#)

# More Search Techniques

- Field Specific Searching
  - author, title, journal, date, url, etc.
- Language Restrictions, Humans or Animals, Gender and other limits

(discussed in Hinari Users Course – PubMed Filters)

- Relevancy Ranking
  - a grading that gives extra weight to a document when the search terms appear in the headline or are capitalized
  - every found document is calculated as 100% multiply by the angle formed by weights vector for request and weights vector for document found

# Evaluating Web Information

- Criteria for Evaluation
  - Accuracy
  - Authority
  - Currency
  - Coverage
  - Objectivity
  - Design/Navigation
- Evaluating Web Pages resources
  - [guides.library.cornell.edu/evaluating\\_Web\\_pages](http://guides.library.cornell.edu/evaluating_Web_pages)
  - [usm.maine.edu/library/checklist-evaluating-web-resources](http://usm.maine.edu/library/checklist-evaluating-web-resources)
  - [www.sc.edu/beaufort/library/pages/bones/lesson5.shtml](http://www.sc.edu/beaufort/library/pages/bones/lesson5.shtml)

# Google Search: Dengue Fever

← → ↻ 🏠 <https://www.google.com/#q=dengue+fever> 🔍 ☆ ADP

Google dengue fever 🔍

All News Images Videos Books More ▾ Search tools

👤 🌐 ⚙️

About 3,410,000 results (0.38 seconds)

**Dengue Fever: Symptoms, Causes, and Treatments - WebMD**  
[www.webmd.com/a-to-z-guides/dengue-fever-reference](http://www.webmd.com/a-to-z-guides/dengue-fever-reference) ▾ WebMD ▾  
Aug 4, 2015 - **Dengue** (pronounced DENgee) fever is a painful, debilitating mosquito-borne disease caused by any one of four closely related dengue viruses. These viruses are related to the viruses that cause West Nile infection and yellow fever. ... **Dengue fever** is transmitted by the bite of an Aedes ...

**WHO | Dengue and severe dengue**  
[www.who.int/mediacentre/factsheets/fs117/en/](http://www.who.int/mediacentre/factsheets/fs117/en/) ▾ World Health Organization ▾  
Severe dengue (also known as Dengue Haemorrhagic Fever) was first recognized in the 1950s during dengue epidemics in the Philippines and Thailand.

**Dengue fever - Wikipedia**  
[https://en.wikipedia.org/wiki/Dengue\\_fever](https://en.wikipedia.org/wiki/Dengue_fever) ▾ Wikipedia ▾  
Dengue fever is a mosquito-borne tropical disease caused by the dengue virus. Symptoms typically begin three to fourteen days after infection. This may include ...  
Dengue virus · Aedes aegypti · Dengue fever (disambiguation) · Aedes


**Dengue fever - Mayo Clinic**  
[www.mayoclinic.org/diseases-conditions/dengue-fever/.../con-20032888](http://www.mayoclinic.org/diseases-conditions/dengue-fever/.../con-20032888) ▾ Mayo ▾  
Dengue (DENG-gee) fever is a mosquito-borne disease that occurs in tropical and subtropical areas of the world. Mild dengue fever causes high fever, rash, and ...

**Dengue | CDC**  
<https://www.cdc.gov/dengue/> ▾ Centers for Disease Control and Prevention ▾  
Jan 19, 2016 - Dengue, Dengue virus, dengue hemorrhagic fever, dengue fever, flavivirus

**Dengue Fever Music**  
[denguefevermusic.com/](http://denguefevermusic.com/) ▾ Dengue Fever ▾  
Official website of **DENQUE FEVER**, known for its unique musical hybrid of Cambodian rock & garage psychedelia.

**Dengue fever**  
Also called: breakbone fever

ABOUT SYMPTOMS TREATMENTS



Spreads by tropical mosquito bites.

A mosquito-borne viral disease occurring in tropical and subtropical areas.

This is the 1<sup>st</sup> page of a Dengue Fever Google Search. Looking at the URLs, some sites are very relevant (CDC, WHO), some marginal (Wikipedia) and others not useful (Dengue Fever Music).

16 June 2017

[Telemed J E Health](#). 2012 Apr;18(3):213-8. doi: 10.1089/tmj.2011.0127. Epub 2012 Feb 24.

## Should you search the Internet for information about your acute symptom?

North F<sup>1</sup>, Ward WJ, Varkey P, Tulledge-Scheitel SM.

### ⊕ Author information

### Abstract

**OBJECTIVE:** To determine if symptom-related Web sites give sufficient information for users to seek urgent care when warranted.

**MATERIALS AND METHODS:** We reviewed 120 Web sites (15 sites for each of eight acute symptoms). Symptom-related sites were identified with Google, Yahoo!®, and Bing™ searches and focused on potentially hazardous symptoms such as chest pain, shortness of breath, abdominal pain, and syncope. We reviewed each symptom-related site for the presence of critical symptom indicators (key symptom characteristics and associated factors) that triage the user to urgent care.

**RESULTS:** Of the 120 sites reviewed, 41 (33%) contained no critical symptom indicators. No site contained a complete set of critical symptom indicators. Overall, out of the 1,020 total critical symptoms searched for in the sites, we only found 329 (32%). When present, critical symptom indicators were found on the top half of the first page of the site in only 34%. Specific recommendations for further care were absent in 42% of the cases where critical symptom indicators were identified.

**CONCLUSIONS:** Symptom-related sites ranked highly by major search engines lack much of the information needed to make a decision about whether a symptom needs urgent attention. When present, this information is usually not located where users can rapidly access it and often lacks prescriptive guidance for users to seek care. Until more sites contain at least minimal triage advice, relying on an Internet search to help determine the urgency of a symptom could be risky.

PMID: 22364307 DOI: [10.1089/tmj.2011.0127](https://doi.org/10.1089/tmj.2011.0127)

[PubMed - indexed for MEDLINE]



**PubMed abstract: article about limits of searching 'symptoms' in Google, Yahoo and Bing**



Search Strategy material developed by:  
Irena Bond, Library Manager  
Associate Professor of Library and Learning Resources  
Massachusetts College of Pharmacy and Health Sciences

There is a Work Book to accompany this part of the module. The workbook will take you through a live session covering the topics included in this demonstration with working examples.

Updated 2017 06