Systematic Searching Systematic Reviews

Tomas Allen

Training Course in Sexual and Reproductive Health Research
Geneva 2010



Systematic Searching for Systematic Reviews

- Where to Begin
- Which Resources to use
- How to Create a strategy
- How to be Comprehensive
- How to be Extensive
- Test the strategy
- Documenting the search



What this course is not! Systematic Review vs. Systematic Searching

- Deciding on the Question
- Determination of the Quality of studies
- Analysis of selected studies
- Reporting of the results
- Publishing and dissemination of the results (beyond documenting the search process)



Cochrane Collaborating Groups.

- Conducts systematic reviews.
- Extensive resources (human and financial)
- In-depth searching
- Broad searching (language/global)

http://www.cochrane.org



The Cochrane Library

- The Cochrane Library contains high-quality, independent evidence to inform healthcare decision-making. It includes reliable evidence from Cochrane and other systematic reviews, clinical trials, and more. Cochrane reviews bring you the combined results of the world's best medical research studies, and are recognized as the gold standard in evidence-based health care.
- http://www.thecochranelibrary.org

http://www.TheCochraneLibrary.com

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The Cochrane Library Evidence for healthcare decision-making

BROWSE

Cochrane Reviews: By Topic | New Reviews | Updated Reviews | A-Z | By Review Group

Other Resources: Other Reviews | Clinical Trials | Methods Studies | Technology Assessments | Economic Evaluations

More Info.

SEARCH

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Welcome to The Cochrane Library

The Cochrane Library contains high-guality, independent evidence to inform healthcare decision-making, it includes reliable evidence from Cochrane and other systematic reviews, clinical trials, and more. Cochrane reviews bring you the combined results of the world's best medical research studies, and are recognised as the gold standard in evidence-based health care.

More About The Cochrane Library

What are Systematic Reviews & Protocols? | Product Descriptions | About the CD-ROM

What's New in Issue 1, 2007?

104 new reviews, 46 updated reviews, 115 new protocols and 7 updated protocols, including.

Interventions for improving older patients' involvement in primary care episodes

Family-centred care for children in hospital

School feeding for improving the physical and psychosocial health of disadvantaged elementary school children

Central action beta-blockers versus placebo for neuroleptic-induced acute akathisia

Beta-blockers for hypertension

Access to The Cochrane Library

The Cochrane Library is available online through Wiley InterScience.

More About Access to Cochrane



Help! New Users Start Here

As a new user we recommend you use the resources to help you navigate through the and get the most out of The Cochrane Libra

For Clinicians

As a clinician you are under constant press have high-quality, up-to-date evidence at yo fingertips. More

For Researchers

The internet has given us instant access to amount of research, but the large volume of information is a problem in itself. More

For Patients

Healthcare consumers and patients need hi evidence about the effectiveness of treatm. More

Dan Dallari Malaasa



WHO makes the news

SNEWS World

Mon, May 7, 2007

World Health Organization slammed by medical journal

The Lancet finds WHO neglects evidence in making health guidelines

By AP



LONDON — When developing "evidence-based" guidelines, the World Health Organization routinely forgets one key ingredient: evidence. That's the verdict from a study published in The Lancet online Tuesday.

The medical journal's criticism of WHO could shock many in the global health community, as one of WHO's main jobs is to produce guidelines on everything from fighting the spread of bird flu and malaria control to enacting anti-tobacco legislation.

"This is a pretty seismic event," Lancet editor Dr. Richard Horton, who was not involved in the research for the article. "It undermines the very purpose of WHO."



Lancet May 9th 2007

Use of evidence in WHO recommendations (Oxman et al.)

- Findings: Systematic reviews and concise summaries of findings are rarely used for developing recommendations.
- Panel 2: Comments by directors
- "I would have liked to have had more evidence to base recommendations on. We should have conducted a literature search."

WHO Guidelines for Guidelines

On January 11, 2000, the HQ cabinet recommended that all WHO guidelines should be evidence-based. An EIP-led intercluster initiative developed this document as the recommended approach to development of WHO guidelines. At the same time, a self assessment checklist was also produced to ensure a consistent level of quality in the guidelines. Cluster note 2002/39, dated December 3, 2002, endorsed the recommended process and at the same time, mandated HTP to develop a database of guidelines which met all the criteria in the selfassessment checklist.



WHO Guidelines Review Committee

WORLD HEALTH ORGANIZATION

Information Note 16/2007 (The French version will follow)

Subject: Establishment of a WHO Guidelines Review Committee

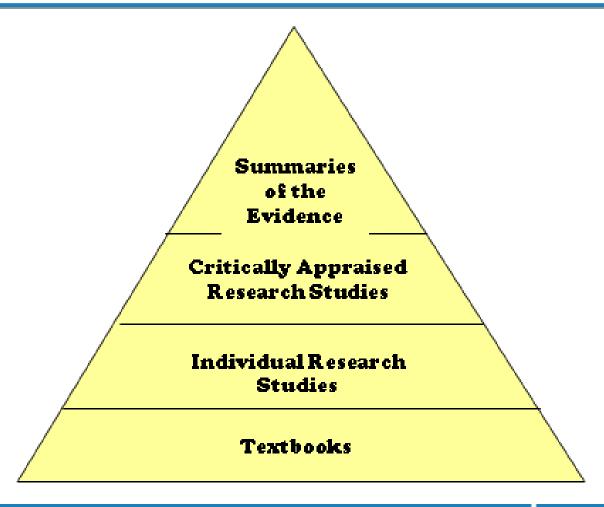
Distribution: All Staff

Date: 09 May 2007

In response to concerns about the quality of WHO guidelines, and following up on recommendations by The Advisory Committee on Health Research (ACHR) and resolution EB120.R15 of the 120th Session of the Executive Board, this note announces the establishment of a WHO Guidelines Review Committee (GRC). The GRC will develop and implement standards and procedures for guideline development that ensure that WHO guidelines are consistent with internationally accepted best practice, including appropriate use of evidence.



Level of Evidence





What are the levels of Evidence?

- I–1 Systematic review of several double-blind randomised control trials.
- I-2 One or more large double-blind randomised control trials.
- II-1 One or more well-conducted cohort studies.
- II-2 One or more well-conducted case-control studies.
- II-3 A dramatic uncontrolled experiment.
- III Expert committee sitting in review; peer leader opinion.
- IV Personal experience.

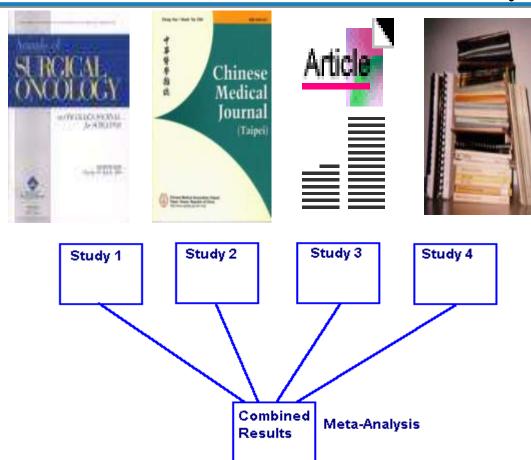


Mainstream Literature

Non-English Literature

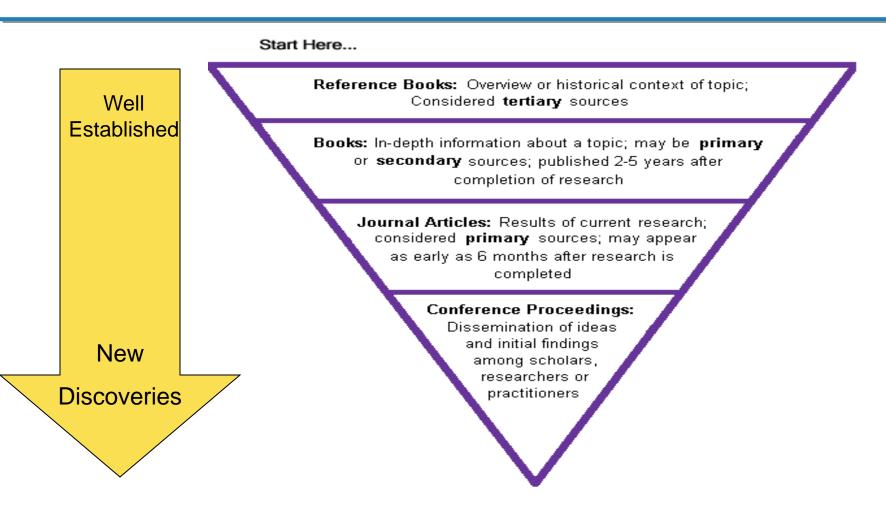
Commercial studies

Grey Literature



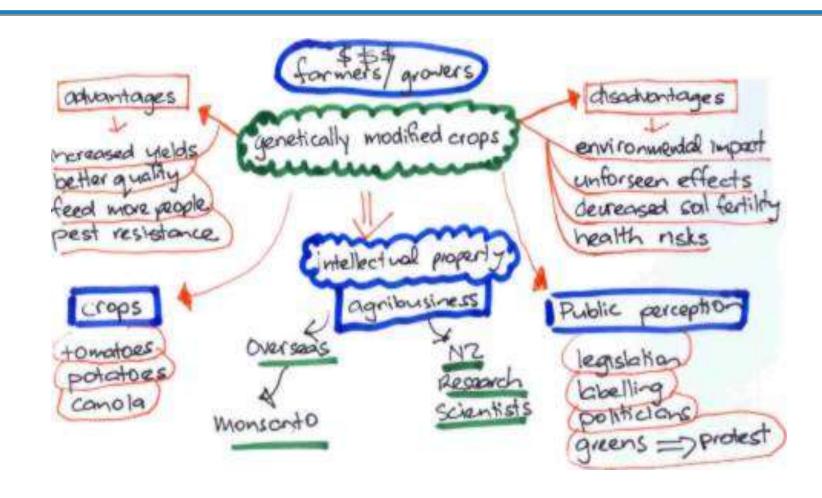


Time Factor





Clarity in the Question

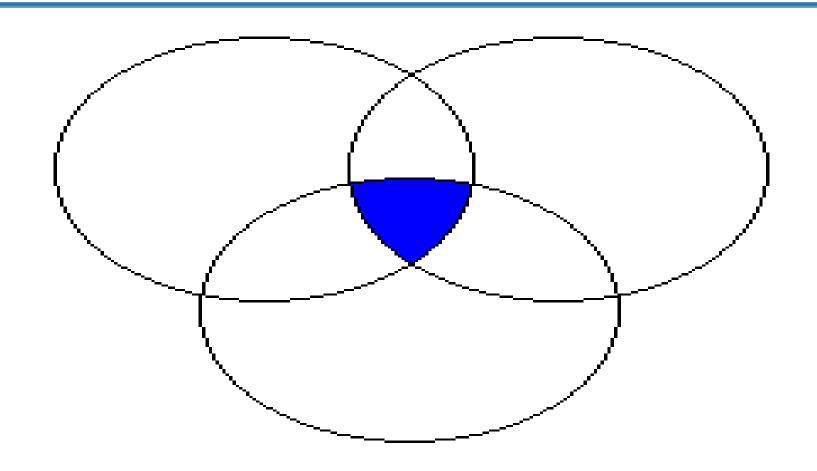




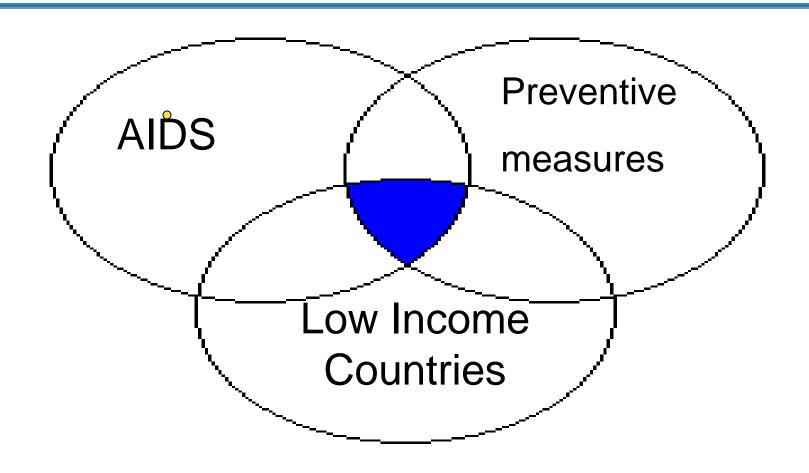
The Question must be Clear

- The researcher must have the question clearly defined so that the researcher can explain this to the searcher
- The Searcher needs to translate the question into a systematic search method
- There is always a negotiation between the researcher and the searcher.

Circle Concepts



Boolean





Cochrane Handbook for Systematic Reviews of Interventions http://www.cochrane.org/resources/handbook/

www.cochrane.org >

The Cochrane Collaboration

The reliable source of evidence in health care

Latest: WHO online survey: Reporting the findings of clinical tri

Cochrane Handbook for Systematic Reviews of Interventions

The Cochrane Handbook for Systematic Reviews of Interventions is the official document that describes in detail the process of preparing and maintaining Cochrane systematic reviews on the effects of healthcare interventions. The current version of the Handbook is 5.0.0 (available in full in browseable format only). A Glossary is available to accompany the Handbook. The current version of the Glossary is 4.2.5.

A short summary of some of the main changes in Handbook version 5 is available as a PDF: What's New?

See Section 2 Chapter 6



First Step Check Cochrane Library





The Cochrane Library Evidence for healthcare decision-making

BROWSE

Cochrane Reviews: By Topic | New Reviews | Updated Reviews | A-Z | By Review Group Other Resources: Other Reviews | Clinical Trials | Methods Studies | Technology Assessments | Economic Evaluations

More Info

SEARCH

Enter search term Title, Abstract or Keyv

Advanced Search | MeSH Search | Search History | Save

Review

Antiretrovirals for reducing the risk of mother-to-child transmission of HIV infection

PDF (Size 771 K)

- Abstract.
- Plain language summary
- Background
- Objectives
- Criteria for considering studies for this review

Search methods for identification of studies

- Methods of the review
- Description of studies
- Methodological quality

[Review]

Antiretrovirals for reducing the risk of mother-to-child transmission infection

J Volmink, NL Siegfried, L van der Merwe, P Brocklehurst

Cochrane Database of Systematic Reviews 2008 Issue 4 (Status: Unchanged) Copyright @ 2008 The Cochrane Collaboration. Published by John Wiley & Sons, Ltd. DOI: 10.1002/14651858.CD003510.pub2 This version first published online: 24 January 2007 in Issue 1, 2007

This record should be cited as: Volmink J, Siegfried NL, van der Merwe L, Brocklehurst P. Antiretrovirals for reducing the risk c transmission of HIV infection. Cochrane Database of Systematic Reviews 2007, Issue 1. Art. No.: CD003510. DOI: 10.1002/14651858.CD003510.pub2.

Abstract

Background

Antiretroviral drugs (ARV) reduce viral replication and can reduce mother-to-child transmission of HIV either by viral load in pregnant women or through post-exposure prophylaxis in their newborns. In rich countries, highly ac antiretroviral therapy (HAART) has reduced the vertical transmission rates to around 1-2%, but HAART is not '



Determine Resources to Search



- · Plain language summary
- Background
- Objectives
- Criteria for considering studies for this review
- Search methods for identification of studies
- lyfethods of the review
- Description of studies
- · Methodological quality
- Results
- Discussion
- · Authors' conclusions
- · Potential conflict of interest
- Acknowledgements
- Characteristics of included studies

🛮 following electronic databases:

(Medline 1966 to date) via Publified on 17 February 2004 and updated on 31 January 2005 and again on 9 February the strategy documented in Table 01.

The searches conducted in 2005 and 2006 yielded 265 records in total of which we selected 29 for full article retrieval search in 2004 yielded 276 records but no record was kept of the number of full articles retrieved for that search.)

(2) EMBASE 2000 to date) on 5 April 2004 and updated again on 31 January 2005 and 9 February 2006 using the PUBMED strategy modified for EMBASE documented in Table 02.

The searches conducted in 2005 and 2006 yielded 39 records in total of which we selected 15 for full article retrieval. search in 2004 yielded 116 records but no record was kept of the number of full articles retrieved.)

(3) AIDSearch (1995 to date) on 31 January 2005 and again on 9 February 2006. The database includes coverage of following conferences:

- International AIDS conference (1985-2004)
- Conference on Retroviruses and Opportunistic Infections (1986-2004)
- The British HIV Association conference (1997-2003)
- International Congress on Drug Therapy in HIV infection (1994-2002)



Use Cochrane for Search Strategy

Table 01. Search strategy for MEDLINE

Number Search terms

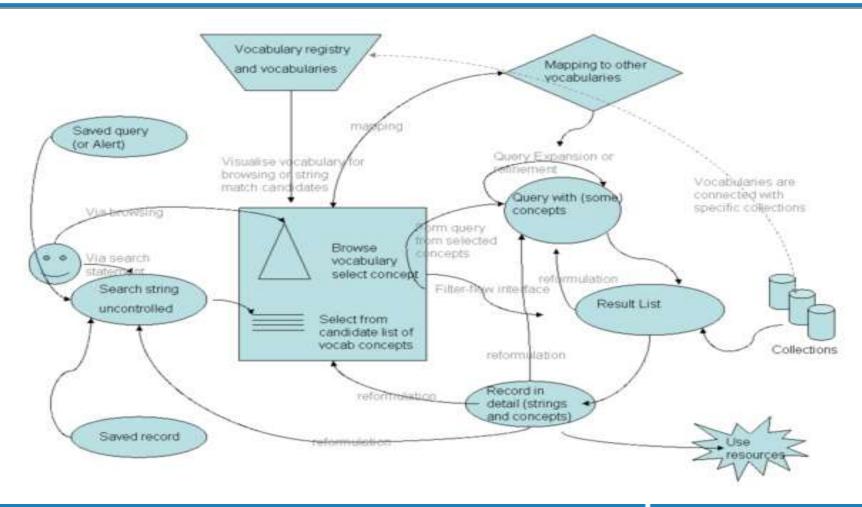
- HIV Infections[MeSH] OR HIV[MeSH] OR hiv[tw] OR hiv-1*[tw] OR hiv-2*[tw] OR hiv1[tw] OR hiv2[tw] OR hiv infect*[tw] OR human immunodeficiency virus[tw] OR human immuno-deficiency virus[tw] OR human immuno-deficiency virus[tw] OR human immuno-deficiency virus[tw] OR human immuno-deficiency virus[tw])) OR acquired immunodeficiency syndrome[tw] OR acquired immuno-deficiency syndrome[tw] OR acquired immuno-deficiency syndrome [tw] OR ((acquired immun*) AND (deficiency syndrome[tw]))
- Antiretroviral Therapy, Highly Active[MeSH] OR Anti-Retroviral Agents[MeSH] OR Antiviral Agents[MeSH:NoExp] OR ((anti) AND (hiv[tw])) OR antiretroviral*[tw] OR ((anti) AND (retroviral*[tw])) OR HAART[tw] OR ((anti) AND (acquired immunodeficiency[tw])) OR ((anti) AND (acquired immunedeficiency[tw])) OR ((anti) AND (acquired immune-deficiency [tw])) OR ((anti) AND (acquired immune-deficiency [tw])) OR ((anti) AND (acquired immun*) AND (deficiency[tw])) OR NEVIRAPINE OR



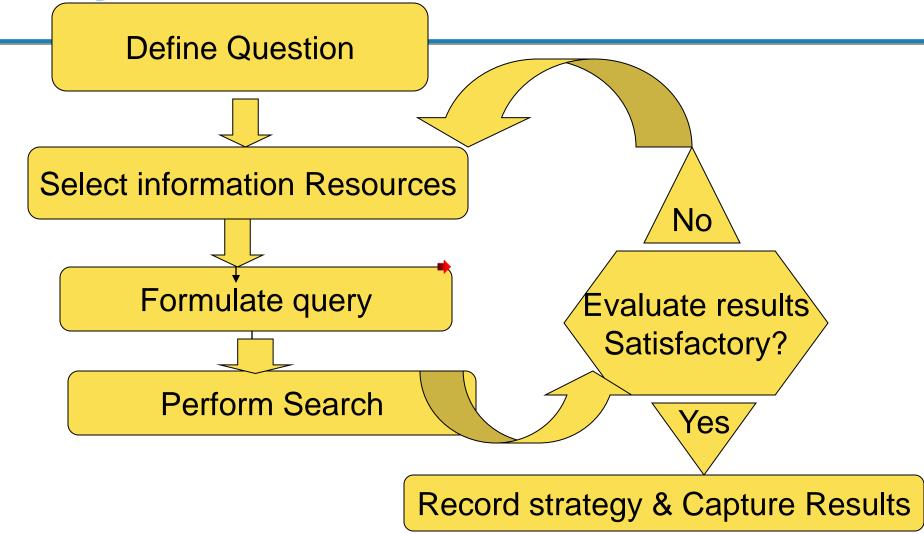
Fishing in the Right place



How the Beginner sees the Search Process



Systematic Searcher Point of View





Where does one begin?

- Determine which information resources would best respond to the information you are seeking.
- What is well established about your research?
- What is new and breakthrough about your research?
- Different resources for different types of questions

Major steps to identifying research

- 1. Electronic databases
- 2. Print indexes
- 3. Hand searching
- 4. Checking reference lists
- 5. Identifying unpublished studies
- 6. Personal communication

Systematic Searching Library Expertise

- Facilitates access to fee charging databases
- Individual search strategies for each database and each interface
- Multilingual searching
- Determine the most effective search strategy
- Expertise in obtaining "grey literature & obscure documents

- Time efficiency due to searching on a regular basis
- Understanding "glitches" in database searching
- Manipulation of data for import/export in bibliographic management software
- Overlap and duplication of references.



Fishing for a few good articles



Fishing Trip - How to find studies?

 Very quick search on one electronic database (PubMed) and find a couple of relevant articles.

 Try to find every study that's ever been done addressing your review's question.

Spear fishing Technique

- Searching for the easy ones
- 1) Key word searching in PubMed using the most relevant keywords
- 2 Using references from a review article on the subject.
- 3) Subject expert provides a list of references.



Spear Fishing Searching

Problems:

-Few studies:

- Publication bias: studies with dramatic results are much easier to find
- Less information
- Limited precision
- Restricted conclusion

Trawling the Sea – Finding all Studies



Trawling the Sea – Finding Every Possible Study

Problems:

- Finding every study
 - Not easy and might not be possible
 - Many studies are never published
 - Published, but not indexed
 - Too much effort is needed

Search should be:

- Be sensitive
 - look in a number of different places not single
 - Minimize bias
 - Think about finding studies that aren't in the major sources like PubMed/MEDLINE.
 - Be efficient
 - start looking in the place you expect to have the highest yield.

Where to search?

- Studies have shown that only 30 80% of all known published RCTs were identifiable using MEDLINE (depending on the area or specific question)...Dickersin 1994
- According to Ulrich's Periodical Directory, there are over 20,000 active health / medical journals.
- So MEDLINE, is generally not considered adequate for a systematic review.

PubMed/ Medline http://pubmed.gov

- By US National Library of Medicine
- Type of Database: Bibliographic
- Over 18,000,000 citations of both clinical and preclinical studies.
- Complementary database known as PreMEDLINE includes citations and abstracts for studies that have been published recently but not yet indexed.
- Subject Coverage: All Specialties of Medicine
- 60% of References contain Abstracts



EMBASE (Classic)

- Type of Database: Bibliographic
- Numbers of Journals: 3500
- Bias: European in focus
- Thesaurus: Uses own thesaurus
- Subject Coverage: Strong on Pharmaceutical and Clinical Medicine
- Materials Indexed: Letters, Editorials, Research Articles from 1974 or 1981 onwards (depending on method of access)
- Overlap with MEDLINE estimated at between 25 and 40%. The EMBASE version at http://www.embase.com contains all citations from MEDLINE and EMBASE (classic) combined.
- 75% of References contain Abstracts



Other databases

- Besides Medline and EMBASE
- Some other bibliographic and full text databases that are available
- Needs a librarian or those familiar with the searches needed for systematic reviews

Home About WHO Countries Health topics Publications Research tools WHO sites Library and Information Networks for Knowledge Access and services Collections Databases

WHO > WHO sites > Library and Information Networks for Knowledge

Databases

WHOLIS

WHOLIS is the World Health Organization library database available on the web. WHOLIS indexes all WHO publications from 1948 onwards and articles from WHO-produced journals and technical documents from 1985 to the present. An on-site card catalogue provides access to the pre-1986 technical documents. It contains bibliographic information with subject headings and, for some records, abstracts. For some records, full text links are available. An online tuto 1 idance in using WHOLIS is available.

- :: Access WHOLIS
- :: WHOLIS online tutorial
- :: More instruction information



WHO Regional Databases

Regional health and medical database n compiled to complement the internationally known initial indexes such as MEDLINE from the <u>US National Library of Medicine</u>. Although most of the significant medical periodicals published in developed countries are indexed in the MEDLINE database and similar tools, there is still a considerable amount of important and valuable medical and health documentation from countries outside the major industrialized areas which is not included. This material therefore receives less global visibility inspite of its often higher relevance for other developing countries.

The Regional medical indexes, published by or under the auspices of WHO Regional Offices give access to bibliographical information about the health material published locally. They thus add a further dimension to the retrieval of information from developed country-oriented databases.

- :: Africa
- :: Eastern Mediterranean
- :: Latin America and Caribbean
- :: South-East Asia



Developing Country Health Databases http://www.who.int/library/databases/en/

Africa

http://indexmedicus.afro.who.int/

- Latin America and the Caribbean http://bases.bvs.br/
- South-East Asia
 http://www.hellis.org
- Eastern Mediterranean
 http://www.emro.who.int/HIS/VHSL/
- Western Pacific
 http://wprim.wpro.who.int/iah/l/index.htm

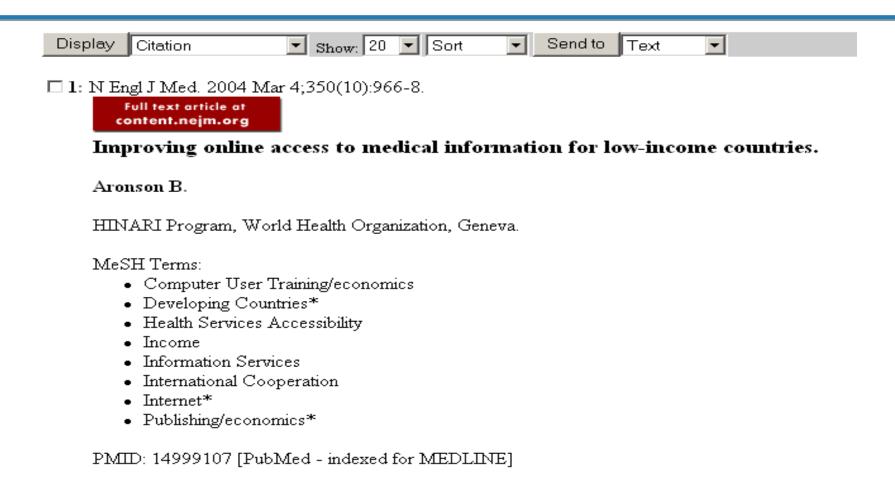


Selecting a Research Tool Databases Versus Online Catalogues

- Scholarly "bibliographic" databases are the best tools for identifying journal articles.
- Scholarly databases can also be used to identify: Chapters in books, Books, Conference papers or Dissertations
- Remember that identifying and obtaining materials are often two different processes, and not everything found in the databases will be a "full text" document. In fact, don't be surprised if you see only abstracts for the most part.
- Online library catalogs can also be used to identify journals (but not the articles), books (but not the chapters), and dissertations. Library catalogues usually only tell you only whether a particular library owns the item, where in the library it is located, and whether it is available for loan.
- Note the above is changing for example WHOLIS is also full text.



Bibliographic Database



OPAC – Online Public Library Catalogue



World Health Organization

Library & Information Networks For Knowledge Database (WHOLIS)

Search/Home Other Language Full Text Links Selected Topics Online journal list for \ Quick Search Online book shop Library Info User Services New Search Change Display io Back Help Kept Logout

record 1 of 1 for search periodical title "new england Journal of medicine"

Keep

Find more items on these topics Items on the same shelf

search for items in

World Health Organization website.

Item Information | Catalog Record

New England Journal of Medicine

ISSN: 0028-4793

Title: New England Journal of Medicine.

Abbreviated title: N Engl J Med

Publication info: Boston, Mass.: Massachusetts Medical Society.

. -no.236-, no.236-, no.236-

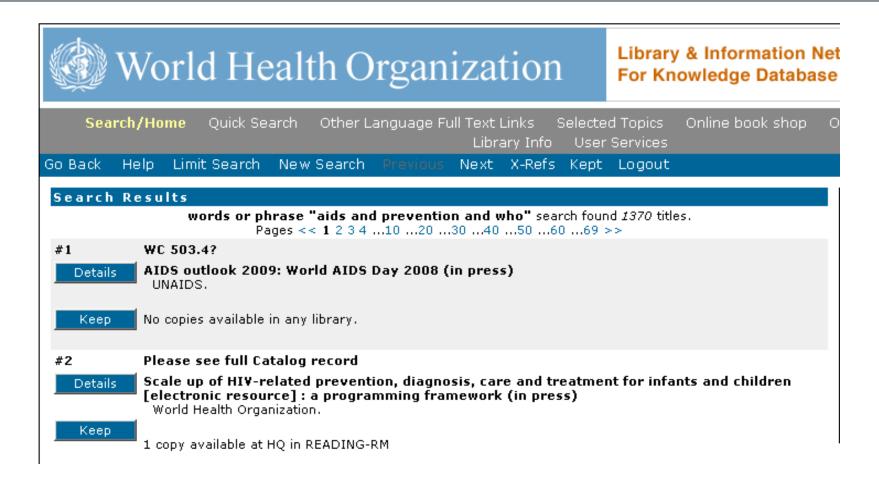
Subject: Medicine - periodicals.

Latest issues: HQ--VOL 356 NO 8 FEB 22, 2007; VOL 356 NO 7 FEB 15, 2007; VOL 356 NO 6 FEB 8,

2007;



OPACs – access to Grey Literature



Creating a search strategy with a librarian



Use Cochrane for Search Methodology



- · Plain language summary
- Background
- Objectives
- Criteria for considering studies for this review
- Search methods for identification of studies
- lyfethods of the review
- Description of studies
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- The British HIV Association conference (1997-2003)
- International Congress on Drug Therapy in HIV infection (1994-2002)



Search Strategy

- Before launching into complex searching, do a few test runs or a little fishing trip.
- This will help you to identify databases and also key terms.

Developing a search strategy

- Balance between comprehensiveness and precision when developing a search strategy is necessary.
- Increasing the comprehensiveness of a search entails reducing its precision and retrieving more non-relevant articles.

Finding Pregnancy related terms

☐ 1: WMJ. 2004; 103(5):61-6.

Pregnancy-associated deaths and pregnancy-related deaths in Wisconsin, 1998-2001.

Mascola MA, Schellpfeffer MA, Kruse TK, Conway AE, Kvale KM, Katcher ML.

Bureau of Community Health Promotion, Division of Public Health, Department of Health and Family Service, Madison, WI 53701-2659, USA.

BACKGROUND: Although the risk of dying during childbirth or from complications afterward has been greatly reduced during the past 100 years, the current rate of approximately 1 death in 10,000 (live birth) is still too high. The goal of the US Department of Health and Human Services is to reduce this rate by more than half by the year 2010, OBJECTIVE: To present Wisconsin data regarding pregnancy-associated deaths and pregnancy-related deaths, METHODS: Cases in which a woman had died during pregnancy or within 1 year of the end of her pregnancy were identified, and case-specific data were collected. The Wisconsin Maternal Mortality Review Team then conducted systematic reviews of the information, summarized issues related to maternal mortality, considered the relationship to pregnancy and factors of avoidability, and made recommendations to improve(maternal) health and survival. Finally, pregnancy-associated and pregnancy-related mortality ratios were calculated, RESULTS: From 1998 through 2001, 23 Wisconsin women died as a result of their pregnancy or from complications up to a year later. This gives a Wisconsin pregnancy-related mortality ratio of 8.4 per 100,000 live births. This ratio was higher in African American women and in women who smoked. The primary cause of death was embolic disease. Almost half of the pregnancy-related deaths (48%) occurred during the postpartum period) and nearly one-quarter (22%) were avoidable. CONCLUSIONS: The disparity in pregnancy-related mortality ratios among ethnic groups and the finding of avoidable deaths are areas that should be targeted by health care providers and public health workers. Six areas on which to focus include the following: addressing racial disparities, assuring the performance of autopsies, lifestyle changes related to obesity and smoking, and management of embolic and cardiovascular disease, as well as fostpartum hemorrhage.



Finding all the terms to describe your search

1: Int J Behav Nutr Phys Act. 2006 Nov 26;3:42.

Specific food intake, fat and fiber intake, and behavioral correlates of BMI among overweight and opess members of a managed care organization.

Linde JA, Utter J, Jeffery RW, Sherwood NE, Pronk NP, Boyle RG.

Division of Epidemiology and Community Health, School of Public Health, University of Minnesota, Minneapolis, MN, USA. linde@epi.umn.edu.

ABSTRACT: BACKGROUND: The study examined correlates of body mass index (BMI) in overweight and obese members of a managed care organization seeking treatment for obesity. It assessed intake of specific foods, dietary fat or fiber, and behaviors attempted to control weight METHODS: Participants were 508 men and 1293 women who were > 18 years and had a self-reported BMI > 27.0, This paper reports analyses of baseline and 24month follow-up data from a randomized weight-loss trial. Cross-sectional and prospective relationships between BMI and behaviors were examined with regression analyses controlling for age and education, RESULTS: At baseline, hamburger and beef consumption were associated with higher BMI for men; for women, hamburger, fried chicken, hot dog, bacon or sausage, egg, French fry, and overall fat consumption were associated with higher BMI, while eating high fiber cereal, fruit, and overall fiber intake were associated with lower BMI. Virtually all forms of weight control behavior were reported more often in heavier people. Subscribing to exercise magazines, however, was associated with lower [BMI] Decreased fat intake and increased fruit/vegetable/fiber intake over the course of the study were associated with reductions in BMI at 24 months. CONCLUSION: The same behaviors that differentiate individuals with different body weight in the general population also differentiate between individuals of different body weights at the high end of the weight distribution. Educational efforts aimed at preventing weight gain and reducing opesity imight benefit from focusing on specific foods known to be associated empirically with body weight and weight change over time.

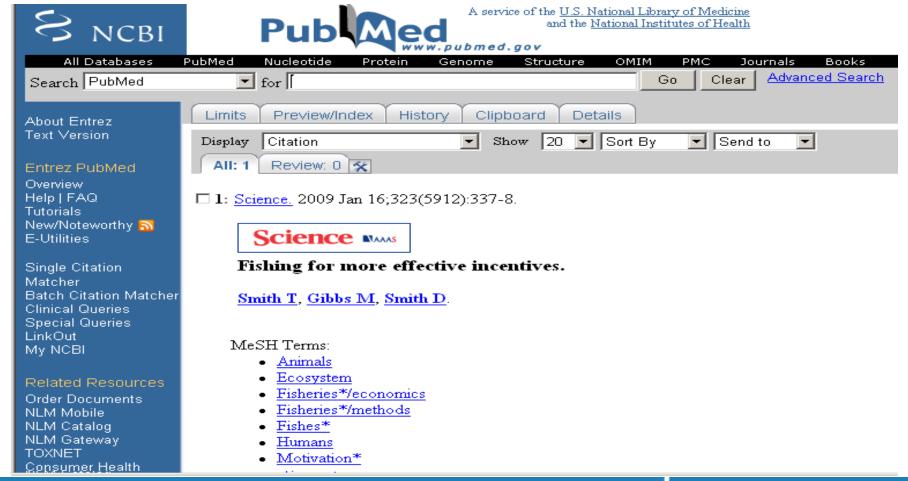
PMID: 17125525 [PubMed - in process]



Using only Title Selection





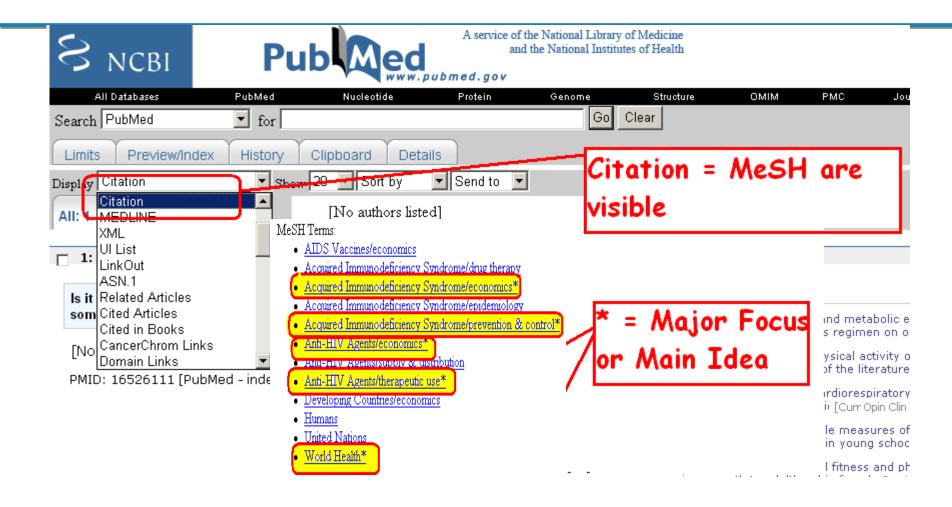




No Abstract! What is this article about?



How to maximize your selection



- 2. http://www.cochrane.org/reviews/en/ab004403.html
- http://www.cochrane.org/reviews/en/ab001288.html
- http://mrw.interscience.wiley.com/cochrane/clsysrev/articles/CD001387/pdf_fs.html
- 3. <a href="http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WJT-4P77G0Y-1&_user=3824252&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000055308&_version=1&_urlVersion=0&_userid=3824252&md5=0fec16ddee19811e77f8899cd0e740fb
- http://ajrccm.atsjournals.org/cgi/reprint/164/9/1618
- http://www.sciencedirect.com/science?_ob=ArticleURL&_udi=B6WWS-4PKG5TR-1&_user=3824252&_rdoc=1&_fmt=&_orig=search&_sort=d&view=c&_acct=C000055308&_ version=1&_urlVersion=0&_userid=3824252&md5=b8235375a6b1e9040e4d725fad399d84
- http://www.chestjournal.org/cgi/reprint/117/5/1345
- http://www3.interscience.wiley.com/cgi-bin/fulltext/118624839/PDFSTART



Was that tuna or tuner?



Where words have double meanings

1: <u>Eat Behav.</u> 2007 Jan;8(1):73-82. Epub 2006 Feb 21.

The method of delivery of nutrition and physical activity information may play a role in eliciting behavior changes in adolescents.

Casazza K, Ciccazzo M.

Florida International University, College of Health and Urban Affairs, Department of Dietetics and Nutrition, HLS 450, University Park, Miami, Florida 33199, USA. krista1313@msn.com

OBJECTIVES: Motivating adolescents to adopt proper nutrition and physical activity behaviors is important in this nation's fight to prevent obesity, and chronic diseases. This study was conducted to determine which health education delivery method would elicit a greater behavior change. METHOD: The intervention was conducted in three schools (control, computer-based, and traditional education). RESULTS: Students who received the computer-based intervention showed increased knowledge (p<0.001), physical activity (p=0.001), self-efficacy (p<0.001), and social support (p<0.001), and decreased meals skipped (p<0.001). CONCLUSION: The computer-based group showed more positive behavior changes. However, future programs may be enhanced by including group discussion and individual feedback.



Text word searching problem

You search on "developing countries." and find the following article. Looks interesting?

Community hospitals--the place of local service provision in a modernising NHS: an integrative thematic literature review.

Reading the article abstract you find:

"We included papers of any study design focussing on hospitals in which care was led principally by general practitioners or nurses. Papers from developing countries were excluded.."



PubMed/MeSH (Medical Subject Headings)

Why is MeSH important to my searching.

Group activity – MeSH vs Free Text



- Using MeSH in PubMed
- ■The MeSH database
 - Major Topic Headings and Explode
 - Using MeSH terms
 - Geographic regions



Why/What MeSH

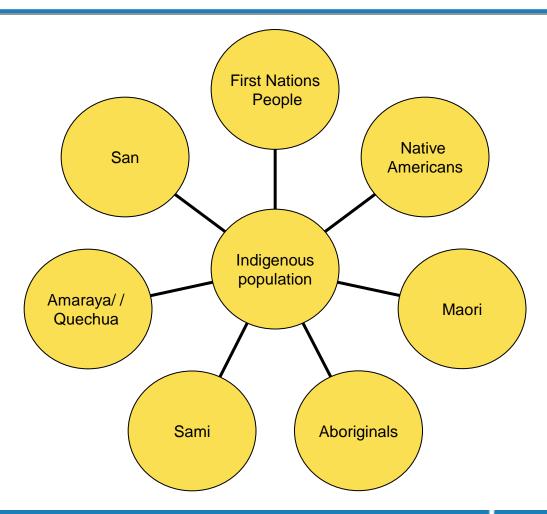
What is MeSH?

- MeSH is the acronym for "Medical Subject Headings." MeSH is the authority list of the vocabulary terms used for subject analysis of biomedical literature at NLM. MeSH vocabulary is used for indexing journal articles for MEDLINE and is also used for cataloging books and audiovisuals.
- The MeSH controlled vocabulary is a distinctive feature of MEDLINE. It imposes uniformity and consistency to the indexing of biomedical literature. MeSH terms are arranged in a hierarchical categorized manner called MeSH Tree Structures and are updated annually.

Definitions are not always clear.

- Indigenous is one powerful word. In many ways, the definition within the Facebook group introduction is sufficient: "indigenous people know who they are".
 - Loreine Roy. Indigenous matters in Library and Information
 Science: An evolving Ecology. <u>Focus on International Library</u>
 and Information Work 40 (2) 2009 p.46

Terminology changes across borders





Terminology changes over time

286: HARRIS A, LANE MA. Nikaitani J. Psychiatric patients and the Disabled Persons (employment) Act. Raising children with special needs. Br Med J. 1949 Jun 4:1(4613):982. No abstract available. Arch Pediatr Adolesc Med. 2008 May;162(5):401-2. No abstract available. PMID: 18144306 [PubMed - OLDMEDLINE] PMID: 18458184 [PubMed - indexed for MEDLINE] SUSZYNSKA. [Rehabilitation of cripple child.] Pediatr Pol. 1951 Jul; 26(7): 806-9. Undetermined Language. No abstract available. PMID: 14882861 [PubMed - indexed for MEDLINE] 219: Blatt B. Public policy and the education of children with special needs. Except Child, 1972 Mar;38(7):537-45. No abstract available. PMID: 4258637 [PubMed - indexed for MEDLINE] □ 17: Griffin VM. Medical rehabilitation: challenges in managing health information of the specially challenged. J AHIMA, 1993 Oct;64(10):64-5; quiz 66-7. No abstract available. PMID: 10128918 [PubMed - indexed for MEDLINE] Henderson J. Rela Humanity by design. Industrial designer Patricia Moore's products focus on the rehabilitation needs of elders and of the "differently-abled". Interiors, 1994 Aug; 153(8):58-9. No abstract available. PMID: 10172110 [PubMed - indexed for MEDLINE]



Terminology is politically charged

Third World



Developing Countries
 Developed Countries

Majority Countries



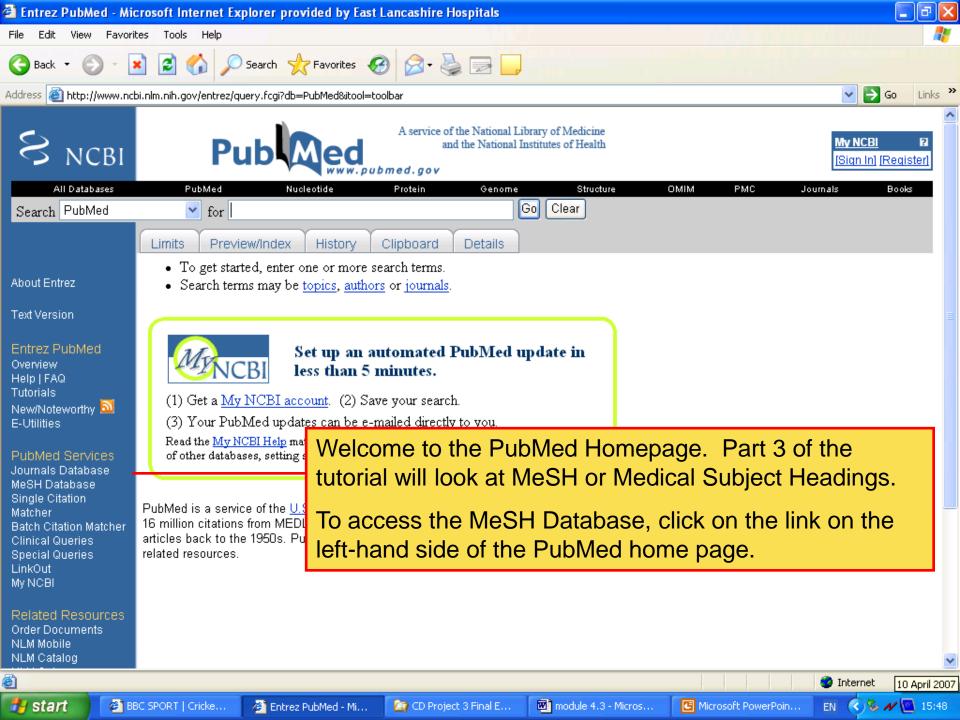
South

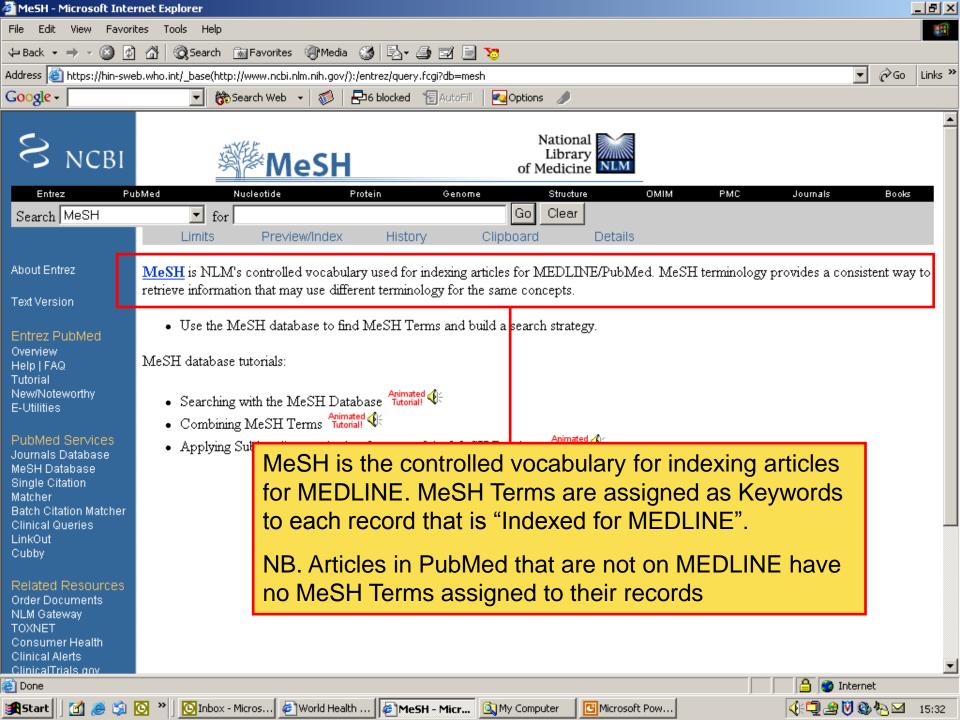


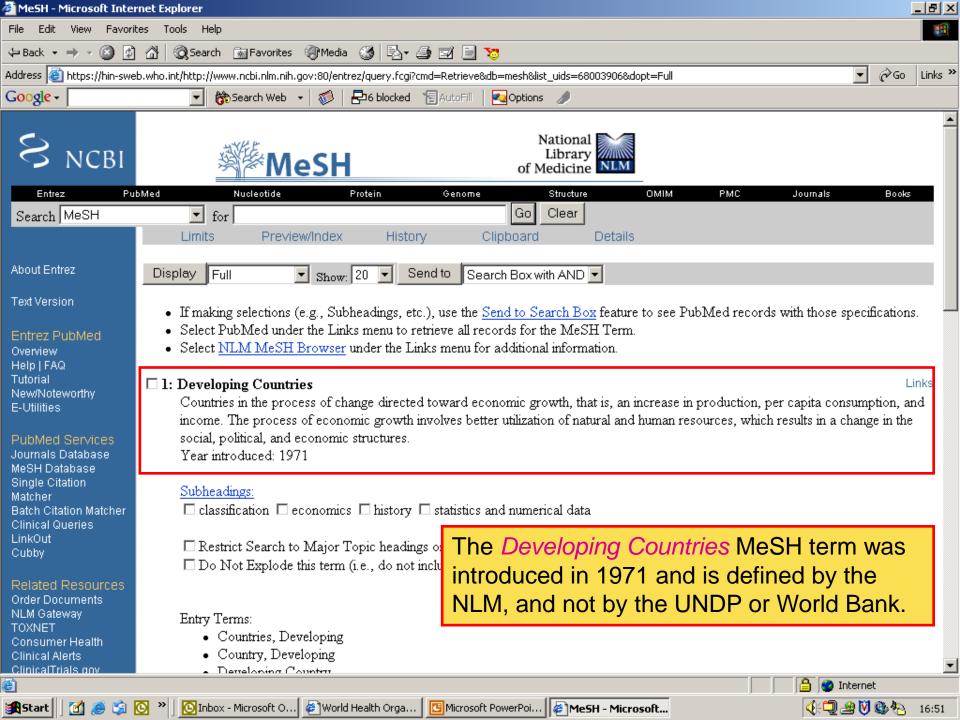
Everyone Else



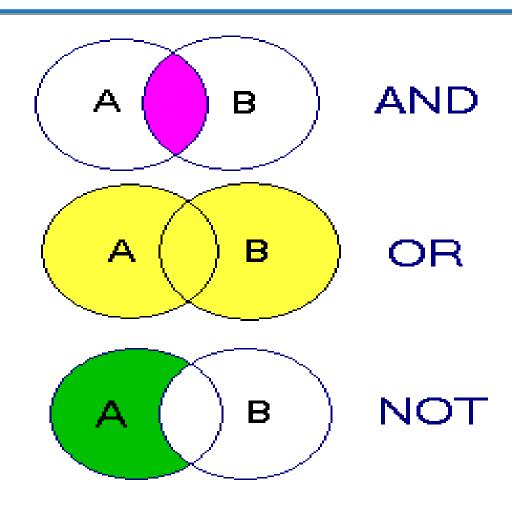




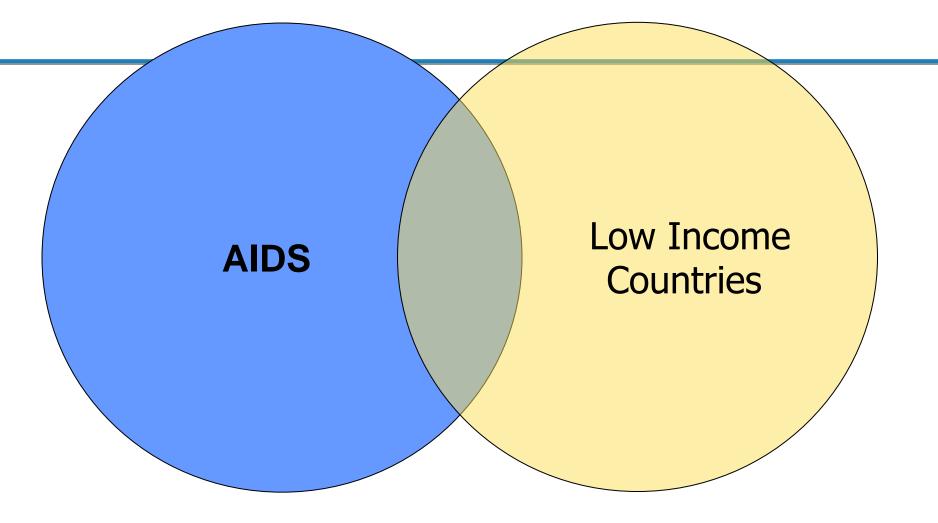




Boolean Search



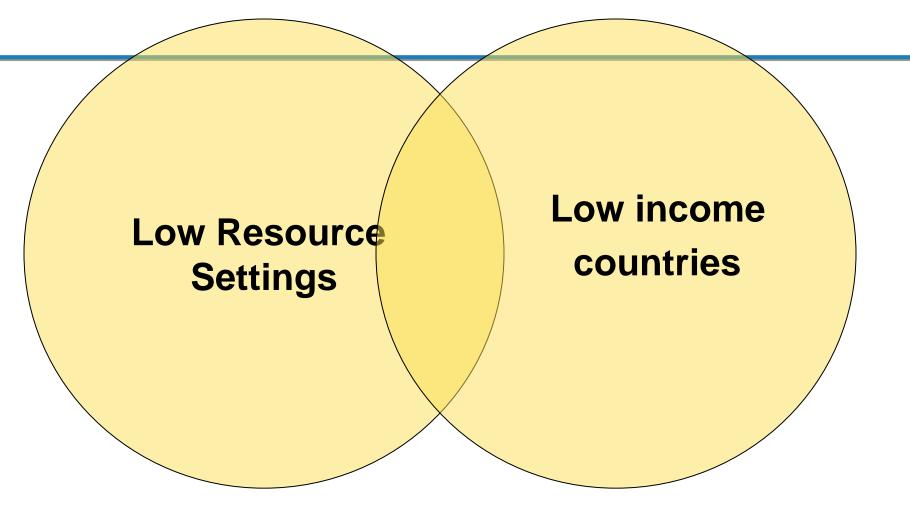
AND – Both concepts present



AND= Finds results that contain both keywords.



OR – Similar concepts EITHER/OR

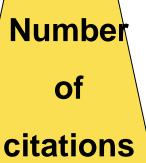


OR = Finds results that contain either keyword



Recall – Number of articles found Search 1 very few articles

- 1. "HIV Infections/prevention and control" [Major]
- 2. "HIV infections/prevention and control" [MeSH]
- 3. HIV infections [MeSH] AND "prevention and control "[Subheading]
- (HIV infection* OR HIV infections [MeSH]) AND (prevention OR control OR "prevention and control "[Subheading])
- (AIDS OR HIV OR HIV infections [MeSH]) AND ((Prevent* AND control*) or ("prevention and control "[Subheading]))



Precision – Articles found that are relevant to the study question.

to the question 2.

- "HIV Infections/prevention and control"[Majr]
- 2. "HIV infections/prevention and control" [MeSH]
- 3. HIV infections [MeSH] AND "prevention and control "[Subheading]
- (HIV infection* OR HIV infections [MeSH]) AND (prevention OR control OR "prevention and control "[Subheading])
- (AIDS OR HIV OR HIV infections [MeSH]) AND ((Prevent* AND control*) or ("prevention and control "[Subheading]))



The balance

Too much (not relevant to the study question)

Too little(missing important studies to the study question)

In Precision, relevant articles but what do we miss

19: Malyuta R, Newell ML, Ostergren M, Thome C, Zhilka N.



Prevention of mother-to-child transmission of HTV infection: Ukraine experience to date.

Eur J Public Health. 2006 Apr;16(2):123-7. Epub 2006 Feb 13.

PMID: 16476684 [PubMed - indexed for MEDLINE]

In Recall, what do we get that is NOT relevant

18: Lange DE, Mutschelknauss R.

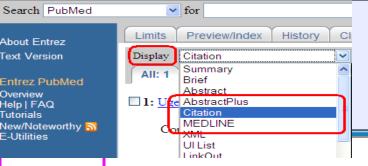


[Aids for prevention of periodontal diseases]

Quintessenz. 1974 Nov;25(11):95-102. German. No abstract available.

PMID: 4533812 [PubMed - indexed for MEDLINE]





Spear Fishing

■ 1: <u>Ugeskr Laeger</u>. 2008 Jun 23;170(26-32):2359; author reply 2360.

Comment on:

Ugeskr Laeger. 2008 Mar 17;170(12):1056.

[Male circumcision--an evidence-based preventive measure]

[Article in Danish]

Lohse N, Weiss H, Hankins C.

Publication Types:

- Comment
- Letter

MeSH Terms:

- Acquired Immunodeficiency Syndrome/prevention & control
- · Africa South of the Sahara
- Circumcision, Male*
- Communicable Disease Control
- Developing Countries
- Evidence-Based Medicine
- HIV Infections/prevention & control*
- Humans
- Male
- World Health
- 4

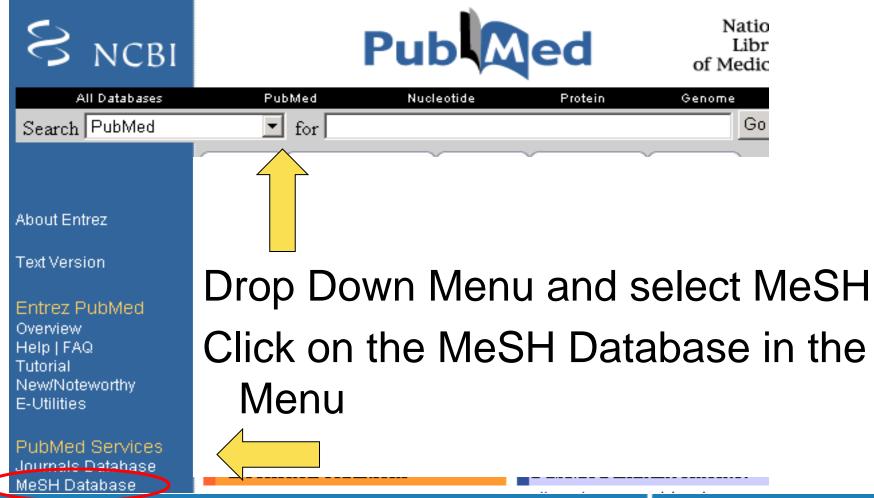
1. Perform a keyword search on your topic (example: AIDS and Low Income Countries).

- 2. Find a relevant result
- 3. Change the **Display** pull-down in the gray area above the item to **Citation**.
- 4. Click on a relevant term from **MeSH Terms** list to search on it.

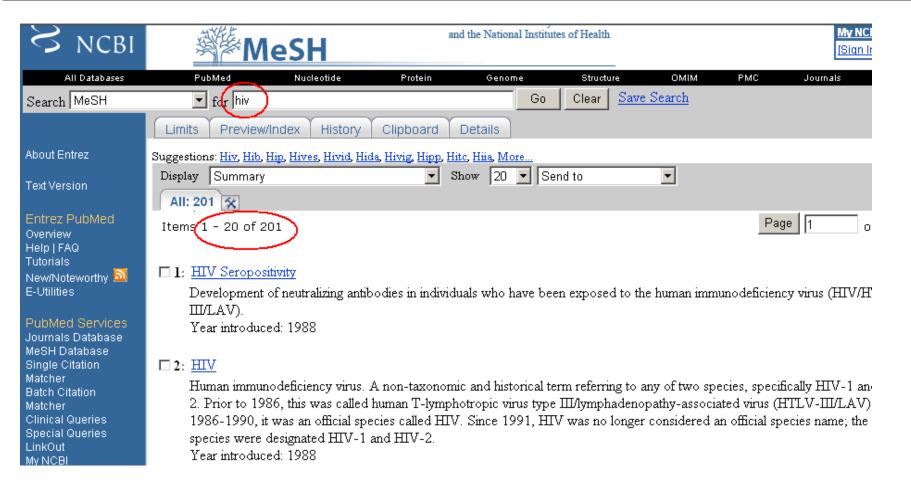


Where's the MeSH Database?

Two Options



Searching HIV finds 201 possible MeSH





Which MeSH to Select?

- Go to the MeSH Database
- Type a term in the search box
- Click [Go] or hit ENTER on your keyboard



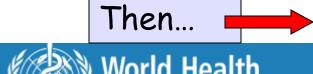
☐ k HIV Infections

Links

Includes the spectrum of human immunodeficiency virus infections that range from asymptomatic seropositivity, thru AIDS-related complex (ARC), to acquired immunodeficiency syndrome (AIDS).

Year introduced: 1990

Click on the hyperlinked term.



Attach subheadings to your MeSH term

1: HIV Infections
Includes the spectrum of human immunodeficiency virus infections that range from asymptomatic seropositivity, thru AIDS-related complex (ARC), to acquired immunodeficiency syndrome (AIDS).
Year introduced: 1990
Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for
allowable combinations.
□ blood □ cerebrospinal fluid □ chemically induced □ classification □ complications □ congenital □ diagnosis □ diet therapy □
drug therapy ☐ economics ☐ embryology ☐ enzymology ☐ epidemiology ☐ ethnology ☐ etiology ☐ genetics ☐ history ☐
immunology ☐ metabolism ☐ microbiology ☐ mortality ☐ nursing ☐ parasitology ☐ pathology ☐ physiopathology ☑ prevention
and control psychology radiography radionuclide imaging radiotherapy rehabilitation surgery therapy
transmission ultrasonography urine veterinary virology

Click in the checkboxes in front of subheadings for aspects of the topic you're interested in. Add many--or none!

The hyperlink <u>Subheadings</u> shows definitions of these terms

MeSH term

+ Subheading

Specific!



Each subheading attaches directly to its subject term.

It's as if you were searching the phrase "prevention and control of HIV infections."

Results from searching the term/subheading HiV Infections/prevention and control should be more relevant than if you had combined the separate terms HIV AND Prevention and control.



Major MeSH



A record in Citation Display format will have asterisks to show which topics are of major importance in the article.

MeSH terms

without asterisks represent topics covered in the article but not its main focus. ■ 1: AIDS. 2008 Sep 12;22(14):1841-50.

Male circumcision for HIV prevention in sub-Saharan Africa: who, what and when?

<u>White RG, Glynn JR, Orroth KK, Freeman EE, Bakker R, Weiss HA, Kumaranayake L, Habbema JD,</u> RJ.

London School of Hygiene and Tropical Medicine, London, UK. richard.white@lshtm.ac.uk

MeSH Terms:

- Adult
- · Africa South of the Sahara
- Age Factors
- Circumcision, Male/economics
 - Circumcision, Male/utilization*
- Cost-Benefit Analysis
- Counseling
- Developing Countries*
- Disease Transmission, Horizontal/prevention & control
- HIV Infections/economics
- HIV Infections/prevention & control*
- HIV-1*
- Health Care Costs
- Humans
- Male
- Sexual Behavior

Those highlighted in Green (economics concept) are minor.



To limit results to articles in which your concept is a central idea

Major MeSH

or major focus:

- Go to MeSH Database
- Type in your term. Click GO/hit ENTER.
- Click on the most appropriate MeSH term.
- 4. Click in the "Restrict to Major Topic headings" checkbox directly beneath the subheadings list, as shown below.

HIV Infections

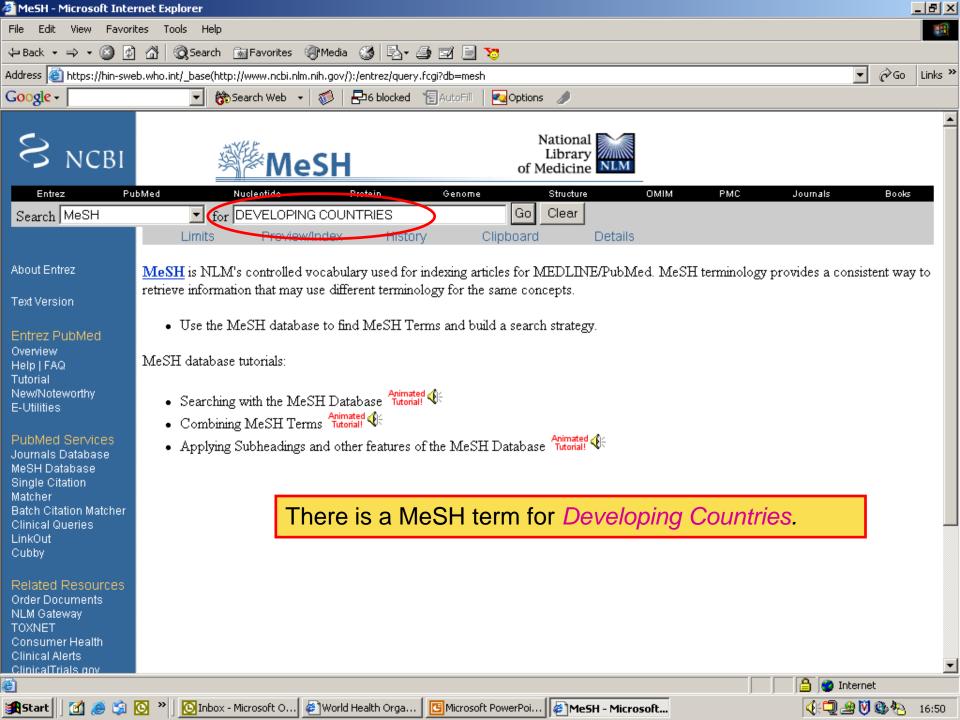
Includes the spectrum of human immunodeficiency virus infections that range from asymptomatic seropositivity, complex (ARC), to acquired immunodeficiency syndrome (AIDS).

Year introduced: 1990

Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect cu allowable combinations.

□ blood □ cerebrospinal fluid □ chemically induced □ classification □ complications □ congenital □ diagnos:
☐ drug therapy 🗹 economics ☐ embryology ☐ enzymology ☐ epidemiology ☐ ethnology ☐ etiology ☐ geneti
☐ immunology ☐ metabolism ☐ microbiology ☐ mortality ☐ nursing ☐ parasitology ☐ pathology ☐ physiopat
and control \square psychology \square radiography \square radionuclide imaging \square radiotherapy \square rehabilitation \square surgery \square
□ ultrasonography □ urine □ veterinary □ virology
▼ Restrict Search to Major Topic headings only.

this term (i.e., do not include MeSH terms found below this term in the MeSH tree).





- 1. Type in term
- 2. Click [Go] or hit ENTER on keyboard
- 3. Scan list for best term. Click on **Links** at its right.
- If making selections (e.g., Subheadings, etc.), use the <u>Send to Search Box</u> feature to see PubMed records with those specifications.
- Select PubMed under the Links menu to retrieve all records for the MeSH Term.
- · Select NLM MeSH Browser under the Links menu for additional information.

□ 1: Developing Countries

Countries in the process of change directed toward economic growth, that is, income. The process of economic growth involves better utilization of natural social, political, and economic structures.

Year introduced: 1971

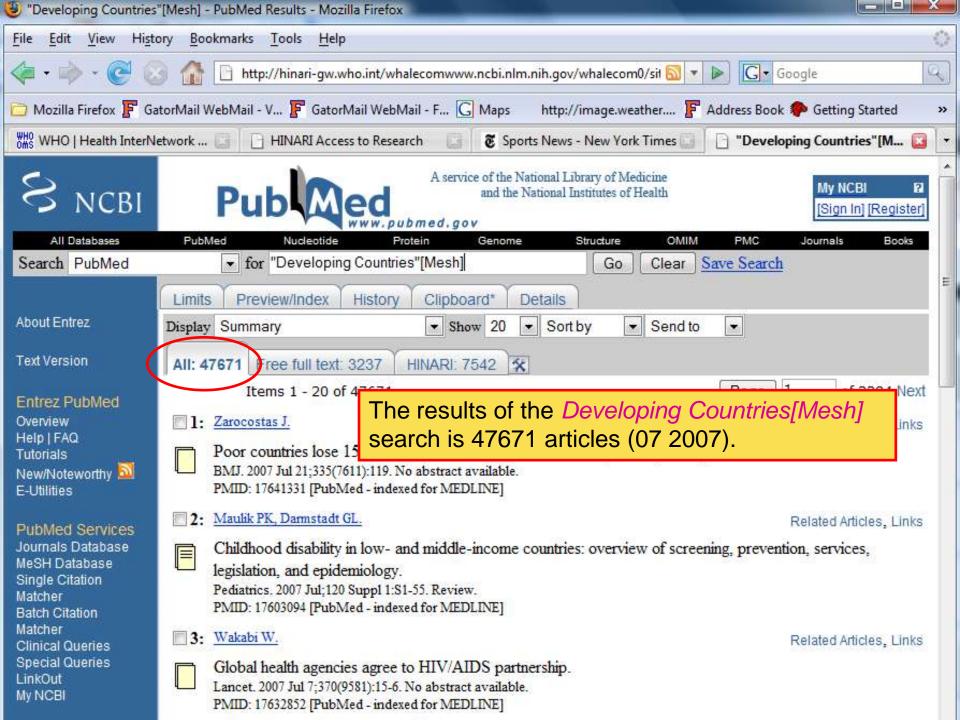
The *Developing Countries* MeSH term was introduced in 1971 and is defined by the NLM, and not by the UNDP or World Bank.

r NEM Mesh browser

Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.



3





- 1. Type in term
- 2. Click [Go] or hit ENTER on keyboard
- 3. Scan list for best term. Click on **Links** at its right.
- If making selections (e.g., Subheadings, etc.), use the <u>Send to Search Box</u> feature to see PubMed records with those specifications.
- Select PubMed under the Links menu to retrieve all records for the MeSH Term.
- · Select NLM MeSH Browser under the Links menu for additional information.

□ 1: Developing Countries

Countries in the process of change directed toward economic growth, that is, income. The process of economic growth involves better utilization of natural social, political, and economic structures.

Year introduced: 1971

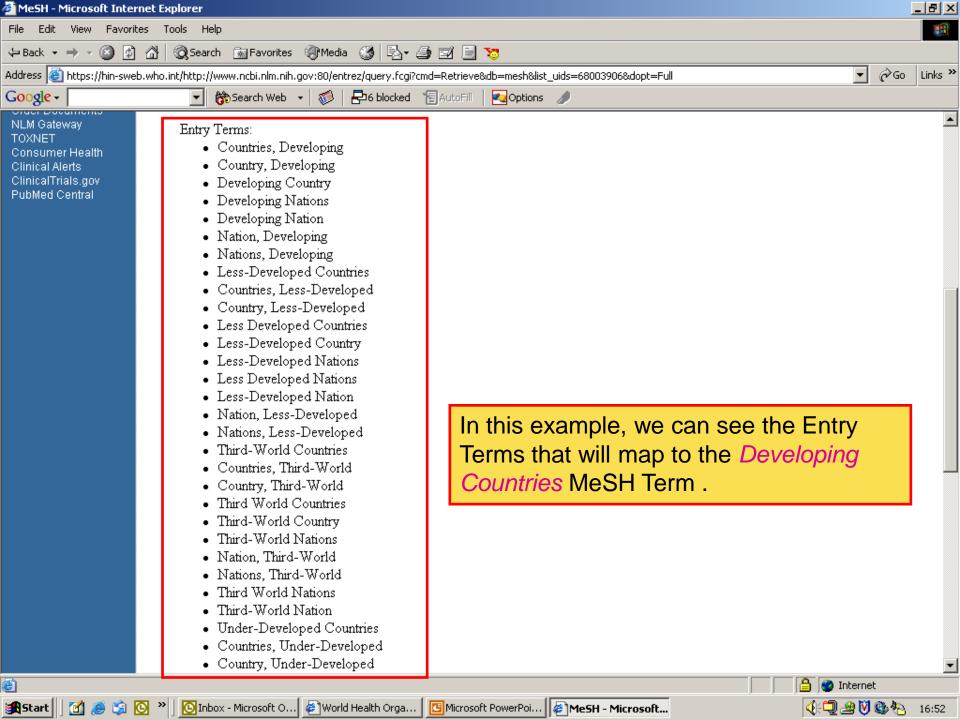
The *Developing Countries* MeSH term was introduced in 1971 and is defined by the NLM, and not by the UNDP or World Bank.

r NEM Mesh browser

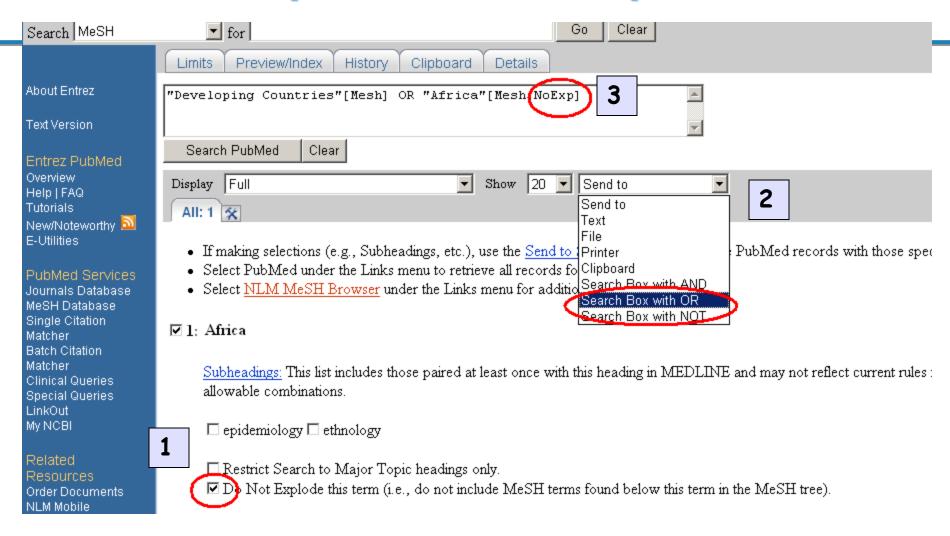
Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules for allowable combinations.



3



To Explode or not Explode?





```
1: Africa
```

Subheadings: This list includes those paired at least once with this heading in MEDLINE and may not reflect current rules combinations.

```
□ epidemiology □ ethnology
□ Restrict Search to Major Topic headings only.
□ Do Not Explode this term (i.e., do not include MeSH terms found below this term in the MeSH tree).

All MeSH Categories
□ Geographical Locations Category
□ Geographic Locations
■ Africa
■ Africa
■ Africa
■ Algeria
■ Egypt
■ Libya
■ Morocco
■ Morocco
```

Africa South of the Sahara

Africa Central +

Africa, Southern + Africa, Western +

To Explode or Not to Explode?

PubMed automatically explodes MeSH terms.

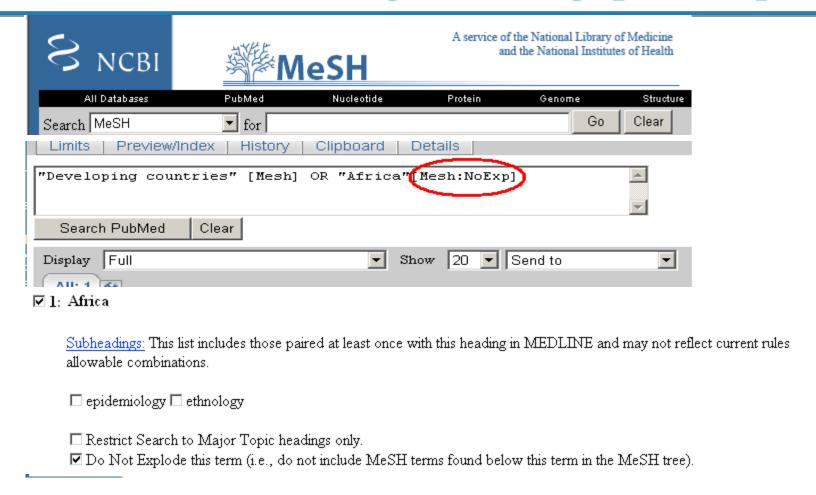
To "unexplode" 1, click in the checkbox immediately beneath the checkbox for Major MeSH.

¹ search only for articles on the **general** topic or those that discuss **multiple specific** topics

Exploding means searching for both a term and all more specific terms under it in the MeSH "tree" of terms.



Africa (as a continent) [MeSH:NOEXP] Africa and every country [MeSH]



Articles that address the issues of preventive measures of AIDS in low income countries?

Concept 1

Use OR to combine alternative terms and synonyms

AIDS

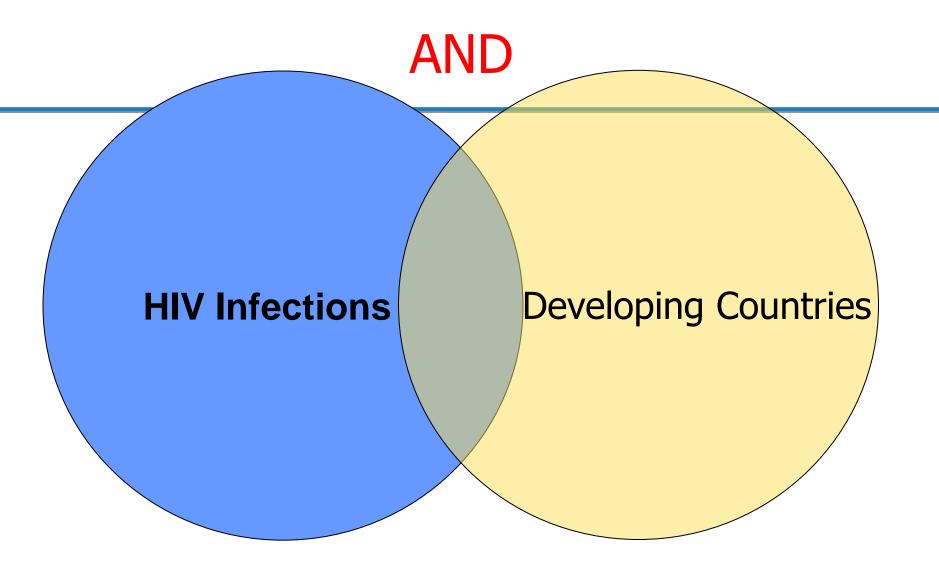
AND

Concept 2

Use OR to combine alternative terms and synonyms

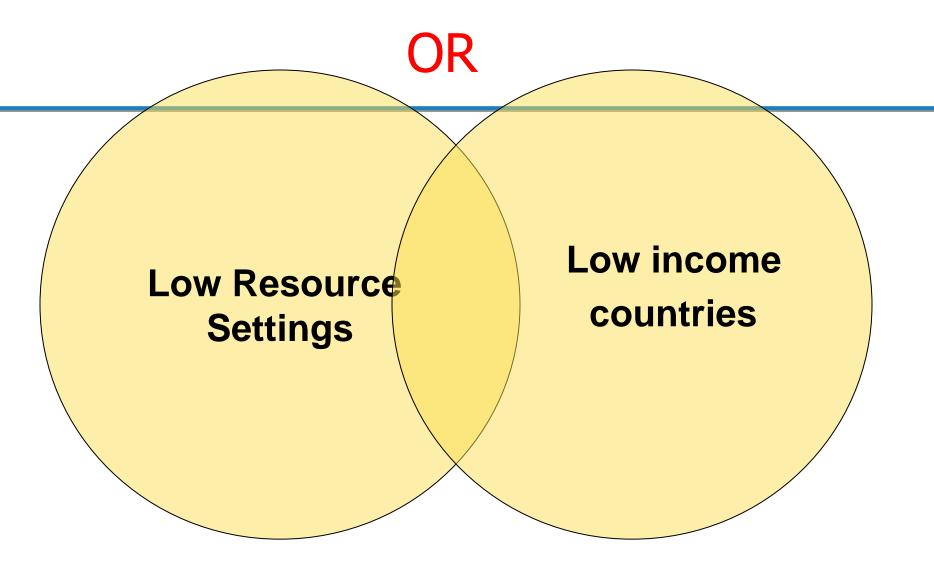
Low Income Countries





AND= Finds results that contain both keywords.





OR = Finds results that contain either keyword



Articles that address the issues of prevention of AIDS in developing countries??

Concept 1

Use OR to combine alternative terms and synonyms

"HIV infections" [MeSH]

OR

"HIV infection*"

OR

"AIDS"

AND

Concept 2

Use OR to combine alternative terms and synonyms

"Developing countries" [MeSH]

OR

"Africa "[MeSH:NOExp]

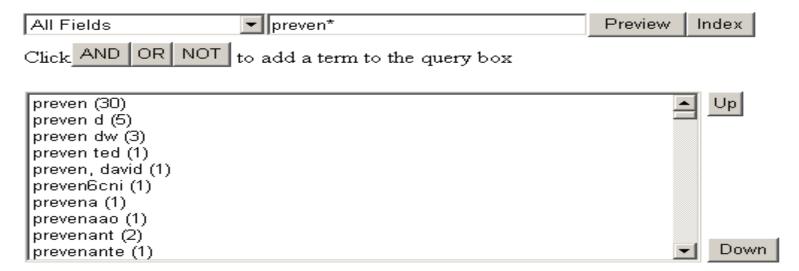
OR

"low income countries"

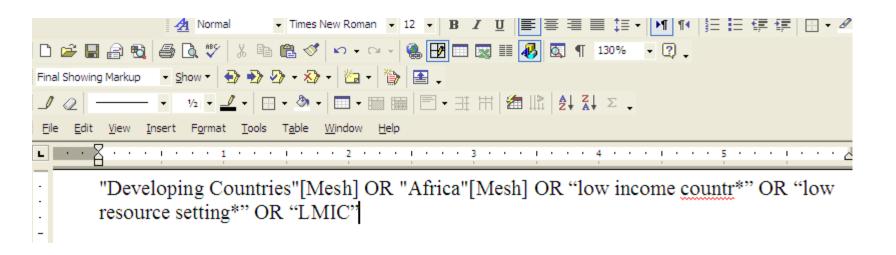


Truncation

- You can use truncation with key words (not with MeSH)
- So to find "HIV infections" or "HIV infection", type
 - "HIV infection*" which will find both! Or "HIV infect*
 - But be careful.... Preven* =



Use WORD to build strategy



Type in the keywords you would like to include, put phrases in "quotation marks" and truncate where appropriate.

Checking the DETAILS tab

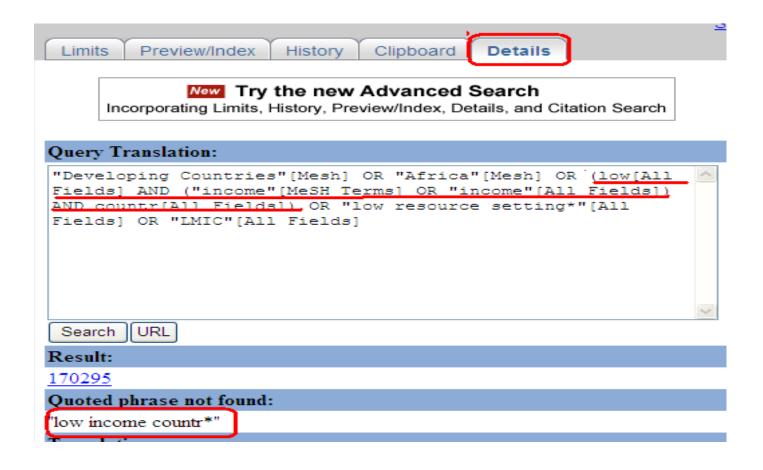
"Developing Countries" [Mesh] OR "Africa" [Mesh] OR "low income countries" OR "low income country" OR "low resource setting*" OR "LMIC" (in PubMed)

 "HIV Infections" [Mesh] OR "HIV infection*" OR "Acquired immundeficienc*" OR AIDS (in PubMed)

 "HIV Infections" [Mesh] OR "HIV infection*" OR "Acquired immunodeficiency*" (in PubMed)



Problem with truncating: "low income countr*"

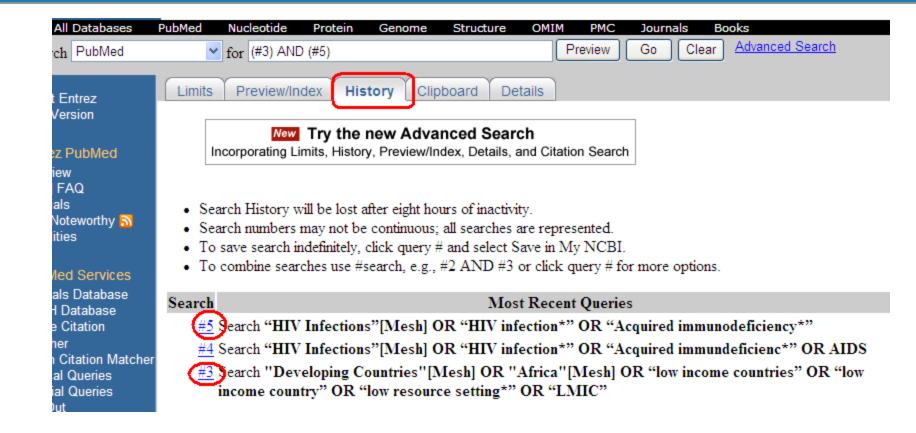




Is "aids" [ALL Fields] retrieving too many irrelevant citations?

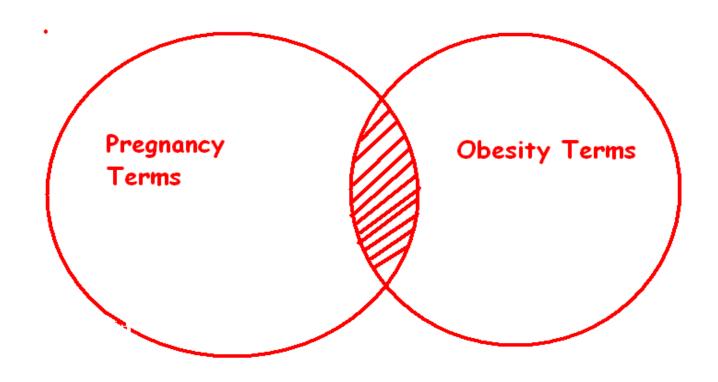
Query Translation:

```
"HIV Infections" [Mesh] OR "HIV infection*" [All Fields] OR Acquired [All Fields] OR ("acquired immunodeficiency syndrome" [MeSH Terms] OR ("acquired" [All Fields] AND "immunodeficiency" [All Fields] AND "syndrome" [All Fields]) OR "acquired immunodeficiency syndrome" [All Fields] OR ("aids" [All Fields])
```





The basic search





Finding Pregnancy related terms

☐ 1: WMJ. 2004; 103(5):61-6.

Pregnancy-associated deaths and pregnancy-related deaths in Wisconsin, 1998-2001.

Mascola MA, Schellpfeffer MA, Kruse TK, Conway AE, Kvale KM, Katcher ML.

Bureau of Community Health Promotion, Division of Public Health, Department of Health and Family Service, Madison, WI 53701-2659, USA.

BACKGROUND: Although the risk of dying during childbirth or from complications afterward has been greatly reduced during the past 100 years, the current rate of approximately 1 death in 10,000 (live birth) is still too high. The goal of the US Department of Health and Human Services is to reduce this rate by more than half by the year 2010. OBJECTIVE: To present Wisconsin data regarding pregnancy-associated deaths and pregnancy-related deaths, METHODS: Cases in which a woman had died during pregnancy or within 1 year of the end of her pregnancy were identified, and case-specific data were collected. The Wisconsin Maternal Mortality Review Team then conducted systematic reviews of the information, summarized issues related to maternal mortality, considered the relationship to pregnancy and factors of avoidability, and made recommendations to improve(maternal) health and survival. Finally, pregnancy-associated and pregnancy-related mortality ratios were calculated, RESULTS: From 1998 through 2001, 23 Wisconsin women died as a result of their pregnancy or from complications up to a year later. This gives a Wisconsin pregnancy-related mortality ratio of 8.4 per 100,000 live births. This ratio was higher in African American women and in women who smoked. The primary cause of death was embolic disease. Almost half of the pregnancy-related deaths (48%) occurred during the postpartum period) and nearly one-quarter (22%) were avoidable. CONCLUSIONS: The disparity in pregnancy-related mortality ratios among ethnic groups and the finding of avoidable deaths are areas that should be targeted by health care providers and public health workers. Six areas on which to focus include the following: addressing racial disparities, assuring the performance of autopsies, lifestyle changes related to obesity and smoking, and management of embolic and cardiovascular disease, as well as fostpartum hemorrhage.



Finding all the terms to describe your search

1: Int J Behav Nutr Phys Act. 2006 Nov 26;3:42.

Specific food intake, fat and fiber intake, and behavioral correlates of BMI among overweight and opess members of a managed care organization.

Linde JA, Utter J, Jeffery RW, Sherwood NE, Pronk NP, Boyle RG.

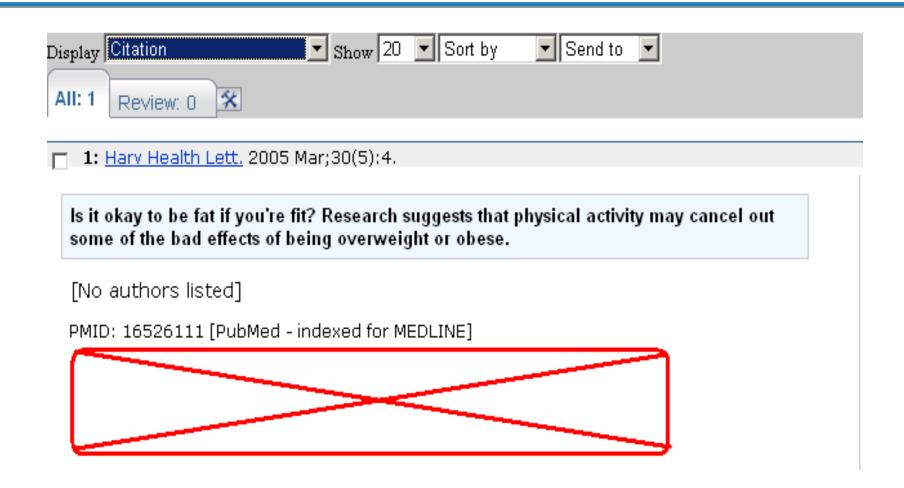
Division of Epidemiology and Community Health, School of Public Health, University of Minnesota, Minneapolis, MN, USA. linde@epi.umn.edu.

ABSTRACT: BACKGROUND: The study examined correlates of body mass index (BMI) in overweight and obese members of a managed care organization seeking treatment for obesity. It assessed intake of specific foods, dietary fat or fiber, and behaviors attempted to control weight METHODS: Participants were 508 men and 1293 women who were > 18 years and had a self-reported BMI > 27.0, This paper reports analyses of baseline and 24month follow-up data from a randomized weight-loss trial. Cross-sectional and prospective relationships between BMI and behaviors were examined with regression analyses. controlling for age and education, RESULTS: At baseline, hamburger and beef consumption were associated with higher BMI for men; for women, hamburger, fried chicken, hot dog, bacon or sausage, egg, French fry, and overall fat consumption were associated with higher BMI, while eating high fiber cereal, fruit, and overall fiber intake were associated with lower BMI. Virtually all forms of weight control behavior were reported more often in heavier people. Subscribing to exercise magazines, however, was associated with lower [BMI] Decreased fat intake and increased fruit/vegetable/fiber intake over the course of the study were associated with reductions in BMI at 24 months. CONCLUSION: The same behaviors that differentiate individuals with different body weight in the general population also differentiate between individuals of different body weights at the high end of the weight distribution. Educational efforts aimed at preventing weight gain and reducing opesity imight benefit from focusing on specific foods known to be associated empirically with body weight and weight change over time.

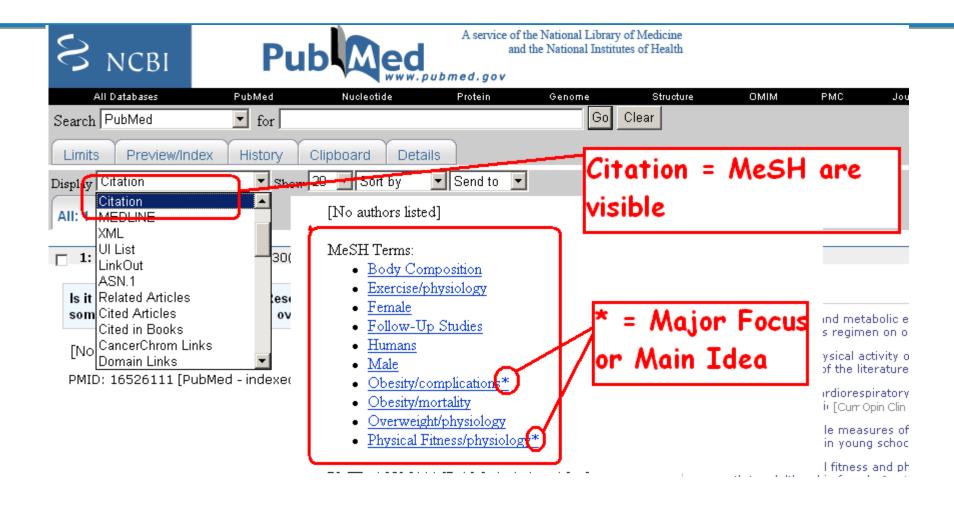
PMID: 17125525 [PubMed - in process]



No Abstract?



How to maximize your selection



Where words have double meanings

1: <u>Eat Behav.</u> 2007 Jan;8(1):73-82. Epub 2006 Feb 21.

The method of delivery of nutrition and physical activity information may play a role in eliciting behavior changes in adolescents.

Casazza K, Ciccazzo M.

Florida International University, College of Health and Urban Affairs, Department of Dietetics and Nutrition, HLS 450, University Park, Miami, Florida 33199, USA. krista1313@msn.com

OBJECTIVES: Motivating adolescents to adopt proper nutrition and physical activity behaviors is important in this nation's fight to prevent obesity, and chronic diseases. This study was conducted to determine which health education delivery method would elicit a greater behavior change. METHOD: The intervention was conducted in three schools (control, computer-based, and traditional education). RESULTS: Students who received the computer-based intervention showed increased knowledge (p<0.001), physical activity (p=0.001), self-efficacy (p<0.001), and social support (p<0.001), and decreased meals skipped (p<0.001). CONCLUSION: The computer-based group showed more positive behavior changes. However, future programs may be enhanced by including group discussion and individual feedback.



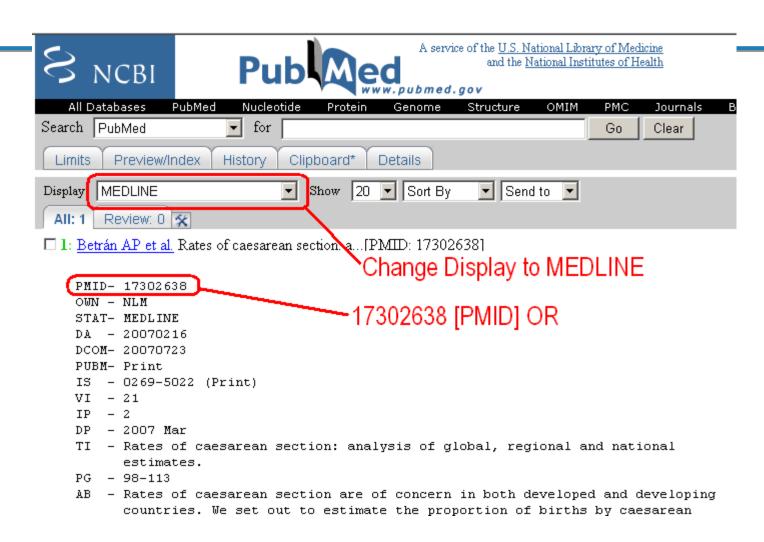
AND

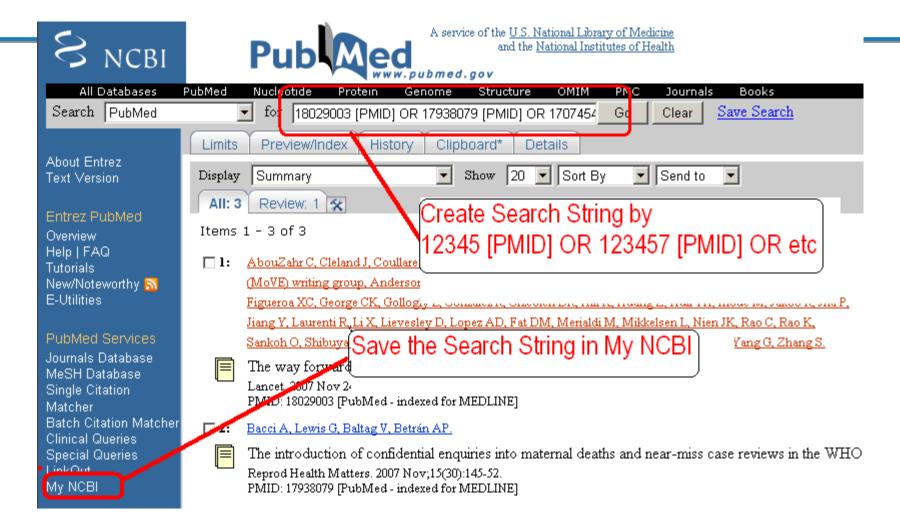
```
"Overweight" [Mesh] OR
"Body Mass Index" [Mesh] OR
"obesity" [All Fields] OR
"obese" [All Fields]) OR
"overweight" [All Fields]) OR
"bregnancy" [Mesh] OR
"pregnancies" OR
"pregnancies" OR
"pregnancies" OR
"pregnancy Complications" [Mesh] OR
"Maternal Health Services" [Mesh] OR
"pregnancy complication*" [All fields] OR
```

AND= Finds results that contain both keywords.



How to Create a TEST set







Testing the Search Strategy Do the results measure up?



Test your Search Strategy

- Create the search strategy
- Run in the database such as PubMed
- Check to see if all previous identified studies / articles that are relevant to your question have been found using your search strategy.
- If any articles/studies are not found, examine the studies missed by the search strategy to see what MeSH, keywords or other terms could be used.



How to Test

- Identified article Jensen (2005) Diabetes Care. Gestational weight gain and pregnancy outcomes in 481 obese glucosetolerant women.
- Search strategy <u>Obesity AND Pregnancy</u> in PubMed
- Jensen (2005) article not found
- (Identified articles) NOT (Search strategy articles) = 0 Good Search
- (Identified articles) NOT (Search strategy articles) = <0 Not Good Search



🗖 1: <u>Diabetes Care.</u> 2005 Sep;28(9):2118-22.



Gestational weight gain and pregnancy outcomes in 481 obese glucose-tolerant women

Jensen DM, Ovesen P, Beck-Nielsen H, Molsted-Pedersen

Pregnancy term found, but obese in this case has used the MeSH term "Weight Gain"

MeSH Terms:

- Adult
- Appetite
- Birth Weight
- Blood Glucose/metabolism*
- Body Mass Index
- Female
- · Food Preferences
- Glucose Tolerance Test
- Humans
- Infant, Newborn
- Pregnancy/blood*
- Reference Values
- Smoking
- Weight Gain*

Need to add terms /such as Weight Gain



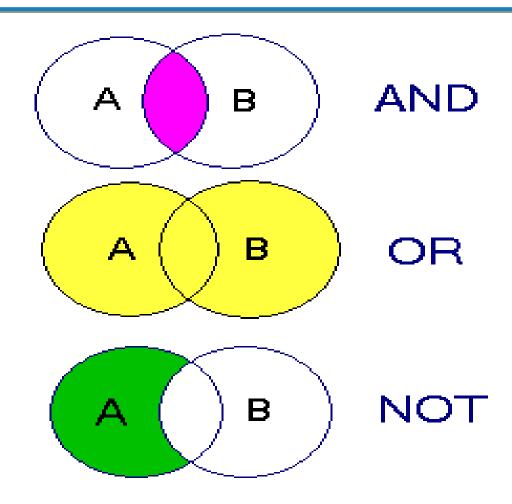
Finding other MeSH using [Title] NOT [MeSH] option

- Step 1
 - Pregnancy [title] AND Obesity [title]
- Step 2
 - Pregnancy [MeSH] AND Obesity [MeSH]

- Step 3
 - Step 1 NOT Step 2



Boolean Search





View the MeSH terms to see if relevant





Obesity [MeSH] OR
Overweight [MeSH]
Overweight [All Fields]

Body Mass Index BMI [All Fields] Obese [All Fields] And other terms.

Pregnany [MeSH] OR
Maternal Health Services
[MeSH] OR
Childbirth [All Fields] OR
Postpartum period [MeSH]
Childbirth [All Fields] OR
Pregnan* [All Fields]
and other terms...



Filters

Saving elements of your search for reuse.

- #1: Developing Countries[mh]
- #2: Medically Underserved Area[mh]
- #3: Africa[mh:noexp] or "Africa South of the Sahara"[mh:noexp] or Asia[mh:noexp] or South America[mh:noexp] or Central America[mh:noexp]
- #4: Africa[tiab] or Asia[tiab] or South America[tiab] or Latin America[tiab] or Central America[tiab]
- #5: American Samoa[tw] or Argentina[tw] or Belize[tw] or Botswana[tw] or Brazil[tw] or Bulgaria[tw] or Chile[tw] or Comoros[tw] or Costa Rica[tw] or Croatia[tw] or Dominica[tw] or Equatorial Guinea[tw] or Gabon[tw] or Grenada[tw] or Hungary[tw] or Kazakhstan[tw] or Lebanon[tw] or Libya[tw] or Libia[tw] or Libyan[tw] or Libyan[tw] or Malaysia[tw] or Mauritius[tw] or Mexico[tw] or Micronesia[tw] or Montenegro[tw] or Oman[tw] or Palau[tw] or Panama[tw] or Poland[tw] or Romania[tw] or Russia[tw] or Seychelles[tw] or South Africa[tw] or "Saint Kitts and Nevis"[tw] or Saint Lucia[tw] or "Saint Lucia[tw] or "Saint Lucia[tw] or Serbia[tw] or Serbia[tw] or Slovak Republic[tw] or "St Kitts and Nevis"[tw] or St Lucia[tw] or "St Vincent and the Grenadines"[tw]

[Line #5: Upper Middle Income Countries]

#6: Albania[tw] or Algeria[tw] or Angola[tw] or Armenia[tw] or Azerbaijan[tw] or Belarus[tw] or Bolivia[tw] or Bolivia[tw] or Bosnia and Herzegovina"[tw] or Bosnia[tw] or Cameroon[tw] or China[tw] or Colombia[tw] or Congo[tw] or Cuba[tw] or Dibouti[tw] or Dominican Republic[tw] or Egypt[tw] or El Salvador[tw] or Fiji[tw] or Guam[tw] or Guam Guatemala[tw] or Guyana[tw] or Honduras[tw] or Indian Ocean Islands[tw] or Indonesia[tw] or Iran[tw] or Iran[tw] or Jamaica[tw] or Jordan[tw] or Lesotho[tw] or "Macedonia (Republic)" [tw] or Marshall Islands[tw] or Micronesia[tw] or Micronesia[tw] or Moldova[tw] or Monocco[tw] or Namibia[tw] or Nicaragua[tw] or Paraguay[tw] or Peru[tw] or Philippines[tw] or Samoa[tw] or Sri Lanka[tw] or Suriname[tw] or Swaziland[tw] or Thailand[tw] or Tonga[tw] or Tunisia[tw] or Turkmenistan[tw] or Ukraine[tw] or Vanuatu[tw] or Cape Verde[tw] or Gaza[tw] or Georgia[tw] or Kiribati[tw] or Macedonia[tw] or Maldives[tw] or Palestine[tw] or Syrian Arab Republic[tw] or West Bank[tw]

[Line #6: Low Middle Income Countries]

#7: Afghanistan[tw] or Bangladesh[tw] or Benin[tw] or Burkina Faso[tw] or Burundi[tw] or Cambodia[tw] or Central African Republic[tw] or Chad[tw] or Comoros[tw] or "Democratic Republic of the Congo"[tw] or Cote d'Ivoire[tw] or Etitrea[tw] or Gambia[tw] or Gambia[tw] or Guinea[tw] or Guinea-Bissau[tw] or Haiti[tw] or Hongolia[tw] or Korea[tw] or Korea[tw] or Malawi[tw] or Mongolia[tw] or Mozambigue[tw] or Myanmar[tw] or Nepal[tw] or Mozambigue[tw] or Myanmar[tw] or Myanma Niger[tw] or Nigeria[tw] or Pakistan[tw] or Papua New Guinea[tw] or Rwanda[tw] or Senegal[tw] or Sierra Leone[tw] or Somalia[tw] or Sudan[tw] or Tanzania[tw] or East Timor[tw] or Togo[tw] or Uganda[tw] or Uzbekistan[tw] or Vietnam[tw] or Yemen[tw] or Zambia[tw] or Zimbabwe[tw] or Burma[tw] or Congo[tw] or Kyrgyz[tw] or Lao[tw] or North Korea[tw] or Salomon Islands[tw] or Sao Tome[tw] or Viet Nam[tw]

[Line #7: Low Income Countries]

- #8: rural communit*[tiab] or rural area*[tiab] or rural region*[tiab] or rural province*[tiab] or rural district*[tiab] or remote communit*[tiab] or remote area*[tiab] or remote region*[tiab] or remote region*[tiab] or remote region*[tiab] or nonmetropolitan region*[tiab] or nonmetropolitan province*[tiab] or nonmetropolitan region*[tiab] or non metropolitan province*[tiab] or non metropolitan region*[tiab] or non metropolitan province*[tiab] or non metropolitan region*[tiab] or non metropolitan province*[tiab] or non metropolitan region*[tiab] or underserved communit*[tiab] or underserved country[tiab] or underserved area*[tiab] or underserved region*[tiab] or underserved region*[tiab] or under served area*[tiab] or under served area*[tiab] or under served area*[tiab] or under served area*[tiab] or under served region*[tiab] or under served district*[tiab] or deprived[tiab] and country[tiab] or deprived[tiab] and co deprived[tiab] and area*[tiab] or deprived[tiab] and region*[tiab] or deprived[tiab] and province*[tiab] or deprived[tiab] and district*[tiab] or shortage communit*[tiab] or shortage area*[tiab] or shortage region*[tiab] or shortage province*[tiab] or shortage district*[tiab]
- #9: developing communit*[tiab] or developing country[tiab] or developing countries[tiab] or developing district*[tiab] or developing state*[tiab] or developing province*[tiab] or developing jurisdiction*[tiab] or developing nation*[tiab] or developed district*[tiab] or less* developed state*[tiab] or less* developed countries[tiab] or less* developed region*[tiab] or less* developed territory*[tiab] or less* developed region*[tiab] or under developed countries[tiab] or under developed district*[tiab] or under developed state*[tiab] or under developed province*[tiab] or under developed province*[tiab] or under developed province*[tiab] or under developed province*[tiab] or under developed region*[tiab] or poor* country[tiab] or poor* country[tiab] or poor* region*[tiab] or poo jurisdiction*[tiab] or developing nation*[tiab] or developing region*[tiab] or developing area*[tiab] or developing territory*[tiab] or less* developed communit*[tiab] or less* developed
- #10: middle income communit*[tiab] or middle income country[tiab] or middle income countries[tiab] or middle income district*[tiab] or middle income sta or middle income jurisdiction*[tiab] or middle income nation*[tiab] or middle income region*[tiab] or middle income area*[tiab] or middle income

Plot our your search strategy

Search Planning Form

Use this form to identify/clarify the key concepts and the scope of your research topic. For each section, refer to the guidance notes on the following page for further explanation.

Name.			
Date search started:	Dat	e search completed:	
1. Your Research Topic			
1			
2. Consider how the foll	owing four categories ap	ply to your research to	pic
Patient/Population	Intervention	Comparison/Control	Outcomes
and/or Problem		(if applicable)	(or Effects)
	Alternative V	Vords	

Different Databases Different Search Strategies



PubMed/Medline http://www.pubmed.gov

☐ 1: AIDS Educ Prev. 2007 Apr; 19(2):160-72.

Related Articles, Links



Social and behavioral determinants of consistent condom use among female commercial sex workers in Ghana.

Adu-Oppong A, Grimes RM, Ross MW, Risser J, Kessie G.

Georgia Southern University, Jiann-Ping Hsu College of Public Health in Statesboro, GA 30460-8015, USA. aaduoppong@georgiasouthern.edu

This study investigated the social and behavioral predictors of consistent condom use among female commercial sex workers (FCSWs) in Ghana. Four hundred fifty street commercial sex workers were interviewed in Accra, Kumasi and Techiman. The level of condom education was very low (14%); however consistent condom use (all the time) with clients was relatively high (49.6%). Two hundred seventy-seven of the participants did not use condoms all the time.

MeSH Terms:

- Adolescent
- A dult.
- Condoms/utilization*
- Data Collection
- Female
- Ghana
- Humans
- Prostitution*
- Social Behavior*

PMID: 17411418 [PubMed - indexed for MEDLINE]



Popline http://db.jhuccp.org/ics-wpd/popweb/basic.html

The INFO Project



Your search found 7 record(s).

New Basic Search | New Advanced Search | POPLINE Document Delivery Policy | Search One Source

1

Peer Reviewed

Title: Social and behavioral determinants of consistent condom use among female commercial sex workers in Ghana.

Author: Adu-Oppong A; Grimes RM; Ross MW; Risser J; Kessie G **Source:** AIDS Education and Prevention. 2007 Apr;19(2):160-172.

Abstract: This study investigated the social and behavioral predictors of consistent condom use among female commercial sex work in Ghana. Four hundred fifty street commercial sex workers were interviewed in Accra, Kumasi and Techiman. The level of condom ϵ very low (14%); however consistent condom use (all the time) with clients was relatively high (49.6%). Two-hundred seventy-seven of participants did not use condoms all the time. (author's)

Language: English

Keywords:

GHANA | SUMMARY REPORT | INTERVIEWS | SEX WORKERS | CONDOM USE | DUCATIONAL STATUS | BEHAVIOR | RELIGIOUSE | PROPERTY | Developing Countries | Africa, Western | Africa, Sub Saharan | Africa | Data Collection | Research Methodology | Behavior | Risk Reduction Behavior | Socioeconomic Status | Socioeconomic Factors | Economic Factors | Socioecultural Factors | Population Characteristics | Demographic Factors | Population

Document Number: 313352



about services

EMBASE http://www.embase.com

Social and behavioral determinants of consistent condom use among female workers in Ghana

Adu-Oppong A., Grimes R.M., Ross M.W., Risser J. and Kessie G.

AIDS Education and Prevention 2007 19:2 (160-172)

Go to CrossRef for the full text

This study investigated the social and behavioral predictors of consistent condom use among female workers (FCSWs) in Ghana. Four hundred fifty street commercial sex workers were interviewed in Ac Techiman. The level of condom education was very low (14%); however consistent condom use (all clients was relatively high (49.6%). Two hundred seventy-seven of the participants did not use con 2007 The Guilford Press.

Associated Links

Other works by authors of this record

Adu-Oppong A., Grimes R.M., Ross M.W., Risser J., Kessie G.

EMTREE drug index terms

EMTREE medical index terms

Where this term is the major focus condom, sexual behavior

Where this term is mentioned: Ghana, adult, article, controlled study, female worker, female, hum study, medical education, social aspect



Web of Science http://apps.isiknowledge.com/

Social and behavioral determinants of consistent condom use among female commercial sex workers in Ghana

Print E-mail Add to Marked List Save to EndNote Web more options

Author(s): Adu-Oppong A (Adu-Oppong, Ahmed), Grimes RM (Grimes, Richard M.), Ross MW (Ross, Michael W.), Risser J (Risser, Jan), Kessie G (Kessie, Gladstone)

Source: AIDS EDUCATION AND PREVENTION Volume: 19 Issue: 2 Pages: 160-172 Published: 2007

Times Cited: 0 References: 31

Abstract: This study investigated the social and behavioral predictors of consistent condom use among female commercial sex workers (FCSWs) in Ghana. Four hundred fifty street commercial sex workers were interviewed in Accra, Kumasi and Techiman. The level of condom education was very low (14%); however consistent condom use (all the time) with clients was relatively high (49.6%). Two hundred seventy-seven of the participants did not use condoms all the time.

Document Type: Article

Language: English

KeyWords Plus: HIV-INFECTION; PREGNANT-WOMEN LATEX CONDOM; RISK; PREVALENCE; TRANSMISSION; PREDICTORS; TANZANIA; DECLINE; SPREAD

Addresses: Adu-Oppong, A (reprint author), Georgia So Univ, Jiann Ping Hsu Coll Publ Hlth, POB 8015, Statesboro, GA 30460 USA

Georgia So Univ, Jiann Ping Hsu Coll Publ Hlth, Statesboro, GA 30460 USA Univ Texas, Hlth Sci Ctr, Sch Publ Hlth, Houston, TX USA Minist Healthy, Holy Family Hosp, Brong Ahafo, Ghana

E-mail Addresses: aaduoppong@georgiasouthern.edu



Global Health Archives www.cabdirect.org

GLOBAL HEALTH on ○ CAB DIRECT	Browse Search History Thesaurus	Quick SearchAdvanced SearchExpert Search	HelpHomeLogout	©
Search for: (ghana and				
Journal article ≪No Previous Record				_
Social and behavioral deterr	ninants of consistent	condom use among	female commercial sex wo	ork)
☐ Adu-Oppong, A. ☐ Grimes, ☑ aaduoppong@georgiasouthe Jiann-Ping Hsu College of Public He	rn.edu;			5A.
CABICODE	□ UU500 - Women □ VV065 - Human Sex	kual and Reproductive	hropology, (New March 2000) Health, (New March 2000) Pathogens of Humans, (New N	
Descriptor	☐ Attitudes ☐ Disease prevention ☐ HIV infections ☐ Prostitutes ☐ Safer sex ☐ Women	☐ Condoms ☐ Education ☐ Human diseases ☐ Risk behaviour ☐ Sexual behaviour		



Know your Database Syntax



Syntax of Searching All Medline different Interfaces

- PubMed Medline
 - Ghana AND Condom AND utilization

OVID – Medline
 exp ghana/ and condom/ut

BIREME - Medline
 Ghana condom



The last few remaining sources Unpublished, Grey Literature & Hand searching



Electronic Databases are not the only way to identify studies

- 1. Electronic databases
- 2. Checking reference lists
- 3. Print indexes
- 4. Hand searching
- 5. Identifying unpublished studies
- 6. Personal communication



Cutting to the Bone Checking References Lists



Checking reference lists

Following up references from one article to another

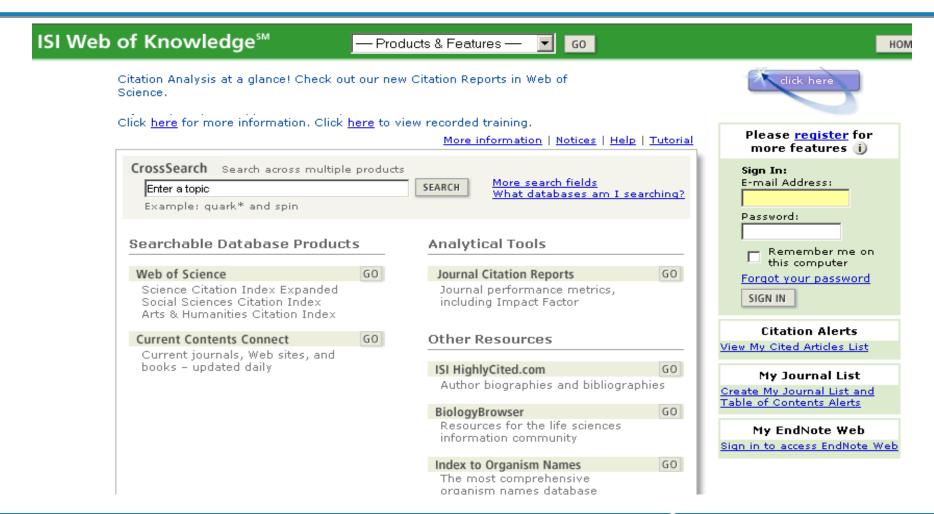
Looking for previous reviews of the topic and checking their reference lists

Efficient means of identifying studies for possible inclusion in a review

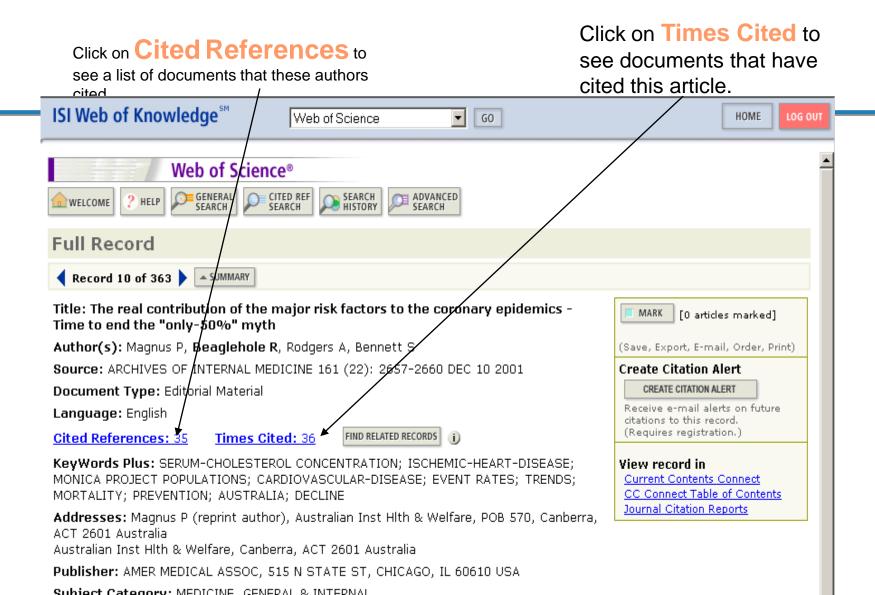
Reference lists should never be used as a sole approach to identifying reports for a review (because of publication bias)



Web of Knowledge –









HAND SEARCHING

Definition:

 Hand searching involves a manual page-bypage examination of the entire contents of a journal issue to identify all eligible reports of trials.

Need for handsearching

Not all trial reports are included on electronic bibliographic databases

For example: Conference proceedings are important to handsearch because individual conference. These abstracts are not included on MEDLINE and are not usually included in other databases.

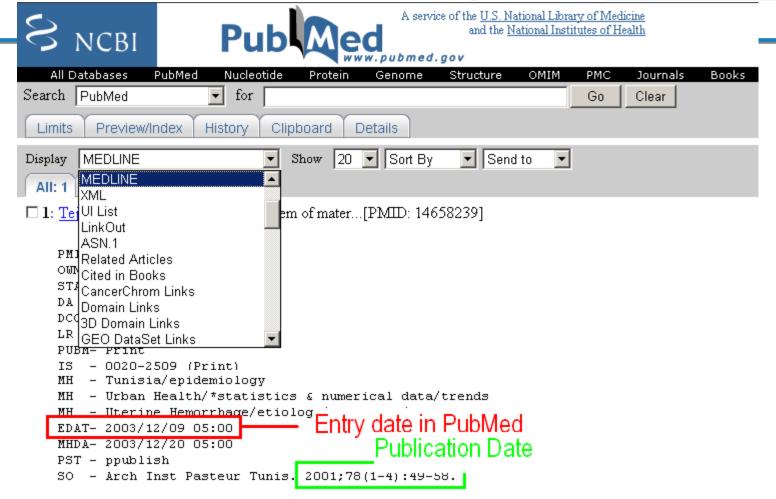
 Even when they are included, they may not be indexed with terms that allow them to be easily identified as trials

Why the need for hand searching

- Journals not indexed in databases or in print indexes
- Journals are not well indexed
 - Studies have shown that RCTs are not always properly indexed as RCTs, obvious concepts are missed in the indexing, lack of abstracts and title may not reflect clearly the topic of the article
- Journals ceased to be indexed or various other reasons
- Time delays in indexing of journals.



Find the date of entry into PubMed





Identifying unpublished studies

What Is Grey Literature?

Literature that is not widely published

- Dissertations
- Theses
- Government reports
- Ongoing studies
- etc...



Clinical Trial sites

- WHO International Clinical Trials Registry
 - http://www.who.int/trialsearch/
- TrialsCentral
 - www.trialscentral.org
- Current Controlled Trials
 - www.controlled-trials.com
- clinicaltrials.gov (by NLM)
 - www.clinicaltrials.gov



WHO International Clinical Trials Registry



INTERNATIONAL CLINICAL TRIALS REGISTRY PLATFORM SEARCH PORTAL

<u>Home</u>	Advanced Search	ICTRP website	<u>Disclaimer</u>	Search tips	Resources
hi√		Exact phrase match	▼ Search	Search tips	

Welcome

- The Search Portal is a web site that enables users to search a central database that contains
 the trial registration data sets provided by Primary Registers.
- When a user finds a trial on the Search Portal that they are interested in, they can learn more
 about the trial by clicking on a link that will take them to the relevant record in the source register.
- New users are advised to read the Search Tips before commencing their search.
- The Search Portal is not a clinical trials register.
- No attempt is made to identify and tag trials that may have been registered on more than one register.

Data Sources

- Australian New Zealand Clinical Trials Registry, last data file imported on 8
- ClinicalTrials.gov, last data file imported on 8 April 2008
- ISRCTN, last data file imported on 8 April 2008

Copyright - World Health Organization



clinicaltrials.gov

- By NLM
- Provides regularly updated information about federally and privately supported clinical research in human volunteers.
- ClinicalTrials.gov gives you information about a trial's purpose, who may participate, locations, and phone numbers for more details

www.clinicaltrials.gov



Clinical Trials.gov A service of the National Institutes of Health Developed by the National Library of Medicine



Linking patients to medical research Clinical Trials, gov: Linking Patients to Medical Research

Home | Search | Browse | Resources | Help | What's New | About

ClinicalTrials.gov provides regularly updated information about federally and privately supported clinical research in human volunteers. ClinicalTrials.gov gives you information about a trial's purpose, who may participate, locations, and phone numbers for more details. Before searching, you may want to learn more about clinical trials.

Search Clinical Trials

Example, heart attack, Los Angeles		
	Search	Tips

Search by Specific Information

E------1-- hoort ottoole I as Amooles

Focused Search - search by disease, location, treatment, sponsor...

Browse

Browse by Condition - studies listed by disease or condition Browse by Sponsor - studies listed by funding organization

Resource Information

<u>Understanding Clinical Trials</u> - information explaining and describing clinical trials

What's New - studies in the news

MEDLINEplus - authoritative consumer health information

Genetics Home Reference - consumer information about genes and genetic conditions

NIH Health Information - research supported by the National Institutes of Health

U.S. National Library of Medicine, Contact NLM Customer Service

National Institutes of Health, Department of Health & Human Services

Copyright, Privacy, Accessibility, Freedom of Information Act

Grey Literature

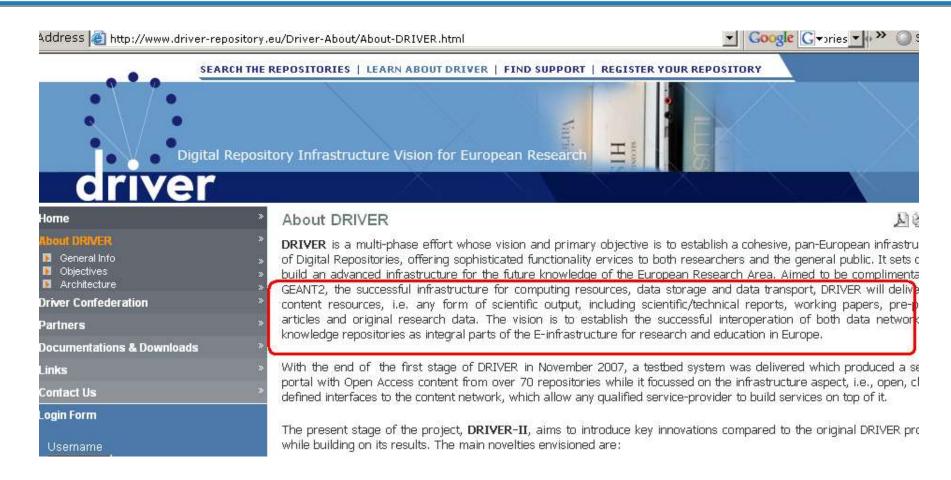


OpenSIGLE System for Information on Grey Literature in Europe http://opensigle.inist.fr/

- OpenSIGLE combines the ressources of major European information and document supply centres who joined in an association known as EAGLE: European Association for Grey Literature Exploitation.
- Each centre was responsible for collecting grey literature produced in its own country and for providing details of it



Grey Literature http://www.driver-community.eu/





Google Casting Identifying studies using Internet Search Engines

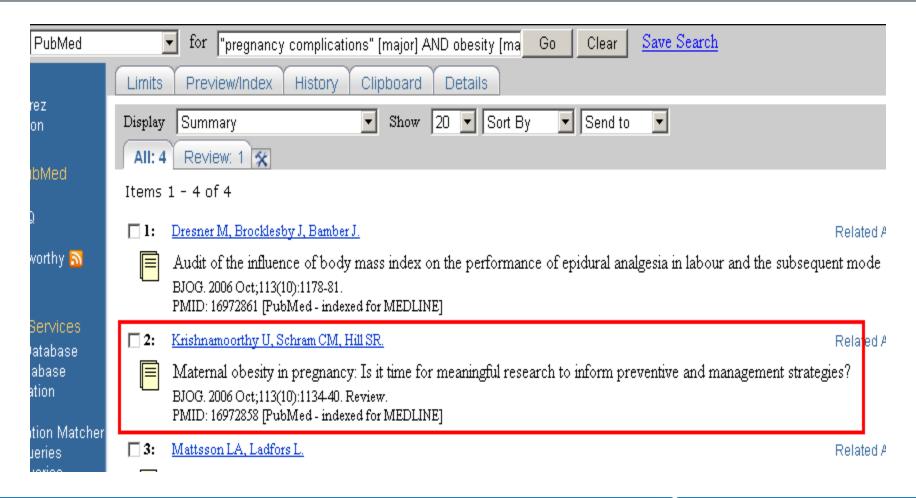


Strategic Searching of the Internet

- Search Internet using
 - Key researchers / authors with a few select terms.
 - Search titles of journal articles in quotation marks
 - Search key stakeholders names with a few select terms
 - Search in-depth the websites of the key stakeholders
 - ** Do not rely only on the web site search engine.
 - Use the equivalent to WHO's Health Topics, Look for publications database such as WHOLIS



Tracking on the Internet Taking Article Titles into a Search Engine





Web Images Maps News Shopping Gmail more ▼



Remember use " marks around phrases, remove other punctuation such ¨£?,;: etc

Web Scholar Results 1 - 9 of 9 for "Maternal obesity in pregnancy" " Is it time for meaningful research to inform preventive and man

Scholarly articles for "Maternal obesity in pregnancy" 'Is it time for meaningful research to inform preventive and management strategi

Maternal obesity in pregnancy: is it time for meaningful ... - Krishnamoorthy - Cited by 5

IngentaConnect Maternal obesity in pregnancy: is it time for ...

Maternal obesity in pregnancy: is it time for meaningful research to inform preventive and management strategies? Authors: Krishnamoorthy; Schram1; Hill1 ... www.ingentaconnect.com/content/bsc/bjo/2006/00000113/00000010/art00006 - Similar pages

Maternal obesity in pregnancy: Is it time for meaningful research ...

Maternal obesity in pregnancy: Is it time for meaningful research to inform preventive



Locate Websites, Grey Literature

Web Images Maps News Shopping Gmail more ▼



"Maternal obesity in pregnancy" " Is it time for meaningful research to inform p

Search

Advanced Search Preferences

Web Scholar Results 1 - 9 of 9 for "Maternal obesity in pregnancy" "Is it time for meaningful research to inform preventive and management of the scholar obesity in pregnancy" and management of the scholar obesity in pregnancy is it time for meaningful research to inform preventive and management of the scholar obesity in pregnancy.

Scholarly articles for "Maternal obesity in pregnancy" "Is it time for meaningful research to inform preventive and management strategic Maternal obesity in pregnancy: is it time for meaningful ... - Krishnamoorthy - Cited by 5



Titre du document / Document title. Maternal obesity in pregnancy : is it time for meaningful research to inform preventive and management strategies ...

cat.inist.fr/?aModele=afficheN&cpsidt=18123755 - Similar pages

[BOC] Evidence March 2007 Obesity and Pregnancy Guidance and Guidelines ...

File Format: Microsoft Word - View as HTML

Article Title: Maternal Obesity in Pregnancy: Is it Time for Meaningful Research to Inform Preventive and Management Strategies? Author: Krishnamoorthy, U. ... www.bwhct.nhs.uk/obesity_and_pregnancy_2007.doc - Similar pages

1471-2393-7-9 1471-2393 Research article A systematic review of ...

... 15890076 10.1186/1475-2891-4-17 Maternal obesity in pregnancy: Is it time for meaningful research to inform preventive and management strategies? ... www.biomedcentral.com/content/download/xml/1471-2393-7-9.xml - 160k - Cached - Similar pages





- What is covered? How do we know what is covered?
- At present, limited subset of scholarly literature.
- It is large, but it's only a small fraction of what's available.
- What journals and databases are covered? How far back? Can not browse journals
- Beta version growing and has a great potential
- See examples in next few slides
- Mixture of Humanities and Social Sciences covered but mainly science and technology



Some conclusions about Google Scholar

- Google Scholar is a Beta version
- Improvement and better features are expected
- Quick and easy to search
- Useful research tool
- Depending on your information need, select your resource
- Valuable supplement but certainly not a substitute
- More important than ever that researchers know how to search effectively and think critically



Let's go fishing..

Please provide feedback on this course to

allent@who.int

 Please say what you found useful, not useful, what was clear or not clear and any other suggestions.

Thanks

Identifying unpublished studies

Sources:

- Colleagues
- Web sites
- Informal channels of communication
- Formal letters
 - sending a list of relevant articles asking if they know of any additional studies (published or unpublished) that might be relevant
 - send the same letter to other experts or others with an interest in the area



Personal communication

To know of studies you haven't yet found:

- Reviewers send a list of the studies they have found to the authors of those studies, asking if they are aware of any other relevant studies.
- Or write to the manufacturers of relevant drugs or devices and ask if they are aware of any other studies.

Documenting the Search Process



An example from a Journal Article

 http://www.biomedcentral.com/content/pdf/1472-6963-10-65.pdf



Kringos et al. BMC Health Services Research 2010. 10:65 http://www.biomedcentral.com/1-

RESEARCH ARTI

The breadth literature re

Dionne S Kringos^{1*}, Wienk

Abstract

Background: Even though delivery, to date no efforts supposition. The aim of th and to assess the evidence

Methods: A systematic re reporting original research MEDLINE, Embase, Cochra

Results: Eighty-five studie care as a multidimensiona structure of a primary care workforce development care: 6. coordination of ca three dimensions: 8. qualit base showing that primar, health.

Methods

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Search strategy

The following electronic databases were searched between April and July 2008: MEDLINE, Embase, Cochrane Library, CINAHL, King's Fund Database, IDEAS Database, and EconLit. For practical reasons such as time and financial constraints, the search was limited to publications published between January 2003

th Services Research

Open Access

population.

Primary care contributes through its dimensions to overall health system performance and health.

Additional file 1: Search strategy. The strategy used in the MEDLINE search, which was adapted for use in the other databases.

http://www.biomedcentral.com/content/supplementary/1472-6963-10-65-S1 DOC 1

the characteristics of the 85 included studies, including setting, sample size, study description, study focus, and primary care dimension(s)

This search strategy was an efficient method to cover the extensive primary care literature area. An additional advantage of this method was that it let to an overview of key primary care study results that went beyond the 5 year time restriction. Stage 2 was an open search (due to a lack of reviews) on (primary) health system performance measurement and accountability. The search strategy included a combination of text words and Medical Subject Headings (MeSH) terms relating to these

h care , "nis

dimensions

system level.

en^{1,3}

alish language journals 1008 were searched in onLit.

mplexity of primary ary care system. The conditions; and cess; 5. continuity of are system includes isiderable evidence performance and



Reporting of Search Strategy based on

Meta-analysis of observational studies in epidemiology: a proposal for reporting http://jama.ama-assn.org/cgi/reprint/283/15/2008

- Qualifications of searchers
- Search strategy
- Effort to include all available studies
- Search Software
- Use of Hand Searching
- List of Citations found
- Method of addressing non-English studies
- Handling of unpublished literature
- Description of any contact with authors.



Keeping track of the References



Keeping track of identified studies

You may find several reports of the same study

 You may find the same report of a study in several databases.

Keeping track of identified studies

So we need:

- Some way of keeping track of the references we've looked at.
- Some way of grouping together all the reports of a single study.
- Also we might like to keep a record of where you found each study, so that you can report how useful different sources were.

Keeping track of identified studies

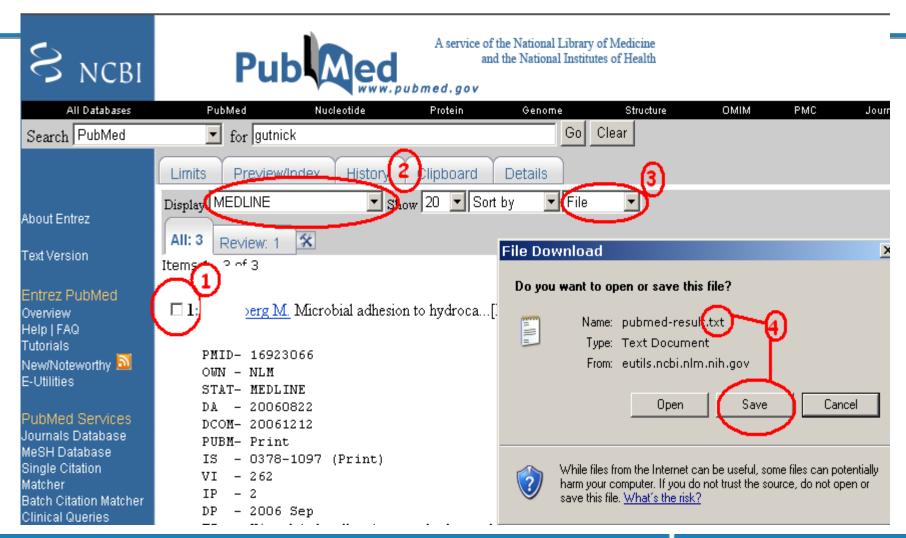
- Some people use reference management software to do all this
 - Reference Manager
 - EndNote EndNoteWeb (http://www.myendnoteweb.com)
 - ProCite
 - Others are also available (Open Source) See the site BIBLIOPHILE http://bibliophile.sourceforge.net/projects.php
 - One example is
 - WIKINDX http://wikindx.sourceforge.net/index2.html
 - See following for overview
 - http://en.wikipedia.org/wiki/Comparison_of_reference_management_software



EndNote Web

- A web-based tool that provides users with online storage for their references and the ability to format bibliographies in their word processor
- Compliments use of PC based Reference Manager, EndNote or Procite
- Access based on our subscription to Web of Knowledge

Import for PubMed

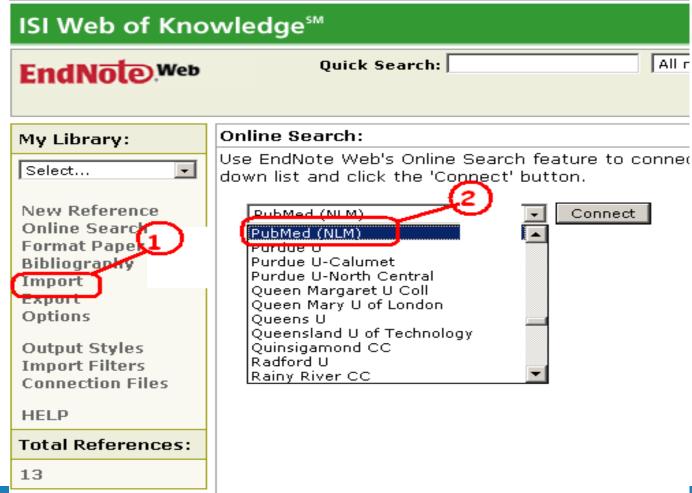




Sign-Up Registration

- http://www.myendnoteweb.com
 - Quick Links Login
 - New to EndNote Web? Sign Up for an account
- http://www.myendnoteweb.com/EndNoteWeb/1.1/relea se/EndNoteWeb.html?func=showRegister&

 Import references from hundreds of online bibliographic databases and organize a library of references in many languages



Checklist



The Literature Search Process: Protocols for Researchers

Developed by the Thames Valley Literature Search Standards Group* on behalf of the Thames Valley Health Libraries Network

Version: 1.0 Issue date: July 2005 Review date: July 2006

Introduction

This document has been developed by health librarians in close partnership with the Thames Valley Research & Development Network. Its aim is to support healthcare researchers in carrying out effective literature searches according to an agreed set of recommendations. This will help ensure that research is not duplicated and that literature searches retrieve the best available evidence.

This document provides guidance for the following key steps:

- planning a literature search
- identifying key sources of information
- guidance in carrying out an effective literature search
- · documenting the search process

Standured quidages and a checklist column are provided for each section so that researchers can quickly



Plot our your search strategy

Search Planning Form

Use this form to identify/clarify the key concepts and the scope of your research topic. For each section, refer to the guidance notes on the following page for further explanation.

Name.			
Date search started: Date search completed:			
1. Your Research Topic			
l			
2. Consider how the following four categories apply to your research topic			
Patient/Population and/or Problem	Intervention	Comparison/Control (if applicable)	Outcomes (or Effects)
and/or Froblem		(п аррпсавте)	(or Ellects)
Alternative Words			

Keep track of where you have searched

Guidance notes Searched N/A Unavail-LEVEL 1: CORE RESOURCES able The resource checklist is divided into 3 levels: core. a) Minimum core resources: recommended and additional. Alongside each Cochrane Library resource, tick the appropriate column: searched, not applicable (N/A) or unavailable. Centre for Reviews and Dissemination (CRD) website for latest updates to CRD databases Level 1 – core resources MEDLINE & PREMEDLINE OR PubMed Effective searches across these sources will help EMBASE ensure that your literature search covers a significant Subject specialist databases appropriate to research topic. proportion of published research. (contact your librarian with advice on identifying others) e.g. a) Allied & Complementary Medicine (AMED) Consider how retrospective the search needs to be. e.g. from the time when a drug was introduced; also b) Applied Social Sciences Index & Abstracts (ASSIA)* consider whether the coverage of your source is c) British Nursing Index (BNI) sufficiently retrospective and/or up-to-date. d) CareData These resources should be searched as a minimum e) Cumulative Index to Nursing & Allied Health Literature requirement unless they are not appropriate to your (CINAHL) research topic. If there are time constraints, section f) DH-DATÁ a) minimum core resources should be given priority. g) King's Fund h) PsycINFO How far you proceed beyond Level 1 will depend on: The subject of your research i) BIOSIS* The type of studies you need to locate (e.g. RCTs) j) Campbell Collaboration's Social, Psychological, Educational & The time available Criminological Trials Register (C2-SPECTR) Availability of sources k) ChildData * How essential it is to ensure your research is not Education Resources Information Center (ERIC) duplicating research elsewhere National Research Register & Research Findings electronic * Resources marked with a * are not available Register (ReFeR) through the NHS core content collection or freely metaRegister of Controlled Trials (mRCT) available on the Internet but may be accessible National Library of Medicine ClinicalTrials.gov through a University Library or by payment of a fee. Guidelines sites e.g. National Institute for Health and Clinical

 Websites of relevant associations, societies, centres of excellence, royal colleges & government bodies

Excellence (NICE)



See next page for continued guidance notes.

Stavudine, lamivudine and nevirapine combination therapy for treatment of HIV infection and AIDS in adults

 The regimen of nevirapine, stavudine and lamivudine is widely used as first-line therapy, and is recommended as such by the World Health Organization for so-called low-resource countries (in other words, for poor countries).

Objectives

 To examine the efficacy of the stavudine, lamivudine and nevirapine regimen for the treatment of HIV infection and AIDS in adults.



How Can we Improve on this Strategy?

Searching Medline and Using PubMed Interface

Step 1

"stavudine" OR "lamivudine" OR "nevirapine"

Step 2

"hiv" OR OR "hiv infect OR "hiv-1" OR "hiv-2" OR "Acquired immunodeficiency syndrome"

Combine Step 1 and 2



As found in Cochrane Review

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#1 STAVUDINE
 #2 LAMIVUDINE
 #3 NEVIRAPINE
 #4 #1 OR #2 OR #3
 #5 HIV
 #6 HIV INFECT*
 #7 HIV-1
 #8 HIV-2
 #9 ACQUIRED IMMUNODEFICIENCY
 SYNDROME
 #10 #5 OR #6 OR #7 OR #8 OR #9
 #11 #10 AND #4
```

Homework Assignment Day 4

- Try searching for any relevant articles in the Regional databases.
- Be creative..... where else could you find studies.(Think about http://books.google.com http://dosei.who.int and others on the following list.

Let's go fishing .. this weekend?

- Please provide feedback on this course to
- allent@who.int
- Please say what you found useful, not useful, what was clear or not clear and any other suggestions.

Thanks