Research Champions - C17

Searching the Literature

Power Searching

PubMed

April, 2017

Presented by Elizabeth Uleryk E.M. Uleryk Consulting emulerykconsulting@gmail.com

Contents

PubMed Access	3
PubMed and journal full text access	3
PubMed Access – limited full-text access	3
Planning and Running a Search	4
Cochrane Search	4
Search Steps:	8
Step 1 - Formulating a Search Question	9
PICOT or Concept Map to select your search terms	9
Step 2: Databases	. 10
Databases (Suggested list):	. 10
Step 3 - Find Search Terms	. 13
Find Search term 1	. 14
Permuted Index	. 14
Scope Note and Tree Listing	. 15
PubMed Explode	. 16
 Search Results for Neoplasms 	. 16
Find Search term 2:	. 17
 Textword searching for prophylactic antibiotics 	. 18
Add subject and textwords for prophylaxis	. 19
Textword searching in PubMed	. 20
Step 4 -Combining Search Terms	. 22
Boolean Searching	. 22
Steps 5, 6, and 7: Study Design Search Filters or PowerSearch	
and Age Group Limits	. 24
Step 8 - Results Display	. 25
Step 9 - Printing, downloading	. 25
Import into EndNote	. 26
Import into Mendeley	. 28
Step 10 - Search strategy write-up	. 29
NCBI Login - Save search strategies or Alerts	. 31
Suggested MEDLINE Quality Filtering Search Terms	. 34

PubMed

PubMed Access

>PubMed and journal full text access

Your affiliated hospital or university home library may have activated the PubMed LinkOut software. This software allows your institutional library to upload all of their e-journal link licenses into the PubMed search platform. When you run a search using this dedicated webpage link, you will be able to immediately download and read the articles.

To check if your home library has activated the LinkOut option check their library webpage for a link to **PubMed@**"name of your institution".

See the example from the University of Toronto below

	IVERSITY TEIN SCIENCE I	OF TOR	ONTC N CENTRI	E	
Catalogue	Research U	of T Research	Services	Stude	
🔳 Major re	sources				

PubMed Access – limited full-text access

Open your browser and type in the term PubMed or bookmark their URL http://www.ncbi.nlm.nih.gov/pubmed/

If you routinely use PubMed for searching MEDLINE, the screen shots below illustrate using the MeSH database approach to finding journal references. Please note that PubMed contains only MEDLINE references, whereas aggregators such as OvidSP offer a variety of databases for searching, in particular EMBASE.

If you have institutional access to the OvidSP, ProQuest, Wiley, Embase.com or EBSCOHost search platforms and databases contact your library for more detailed training.

Planning and Running a Search

Cochrane Search

Good search practice includes checking for a Cochrane Systematic review or practice guideline. You are probably aware of ASH, POGO, COG or other association practice guidelines. However, you may not be aware of current Cochrane reviews.

To search Cochrane log in to your institutional access or the main Cochrane site at <u>http://www.cochrane.org/.</u> For best results you should run a complete search with medical subject headings and textwords. Run a complete search using your PubMed terms to find specific Systematic Reviews and Clinical Trials

Method 1: (Free text search)

A quick start method to check on Systematic Reviews in your area of interest. To Do this:

- a) Log on to Cochrane and in the search page select Search Manager
- b) run a quick search using terms you consider relevant
- c) sample search strategy and results are listed below

Wiley Online Library Cochrane Trusted evidence. Looped In: Elizabeth U My Profile Institutional Login () Log Informed decisions. brary Better health. Medical Terms (MeSH) Search Search Manager Browse **CRTI** - Antibiotic prophylaxis ks) finds hospital and hospitals; pay finds paid, pays, paying, pays Add to top - Edit 🕂 #1 prophylactic antibiotics in children 368 😑 Edit 🕀 10 #2 cancer or neoplasms or leukemia 122968 1 (+) #3 #1 and #2 131 Cochrane Database of Systematic Reviews : Issue 3 of 12, March 2017 All Results (131) Issue updated daily throughout month Cochrane Reviews (108) All There are 108 results from 9784 records for your search on #3 - #1 and #2 in Cochrane Reviews for strategy: CRTI -Antibiotic prophylaxis O Review O Protocol Pages 1 - 25 26 - 50 51 - 75 76 - 100 101 - 108 Sort by Relevance: high to low O Other Reviews (2) Select all Export all Export selected O Trials (15) O Methods Studies (0) Interventions other than anticoagulants and systemic antibiotics for prevention of central venous catheter-related O Technology Assessments (0) infections in children with cancer O Economic Evaluations (1) Ramandeep S Arora, Rebecca Roberts, Tim OB Eden and Barry Pizer Online Publication Date: December 2010 O Cochrane Groups (5) Review All O Current Issue Antibiotics for preventing lower respiratory tract infections in high-risk children aged 12 years and under Igho J Onakpoya , Gail Hayward and Carl J Heneghan Online Publication Date: September 2015 Me Methodology Review Dx Diagnostic Prophylactic antibiotics for preventing Gram positive infections associated with long-term central venous catheters in 2 💼 Ov Overview oncology patient Marianne D van de Wetering , Job BM van Woensel and Theresa A Lawrie Pg Prognosis Online Publication Date: November 2013 Qualitative Review Conclusions cha

PubMed

Method 2: - Browse Cochrane Disease Study Groups

a) On the Cochrane homepage scroll to the bottom and select the Browse by Review Group

Cochr Librar	ane 'y	Trusted evidence. Informed decisions. Better health.					+	Log in / Regi
Search		Search Mana	ger	Medical	Terms (Mes	SH)	B	rowse
Browse Cochrane	Reviews	Brow	se More resources			Help		
Browse by Topic		Oth	er Reviews (DARE)			How to	use Cochrane Library	
Browse by Review	Group	Sec	arch Trials (CENTRAL)			Contact	Us	
Highlighted Review	/8	Mo	thods Studies (CMR)			Website	Updates	
View Current Issue	i i i	Too	hnology Assessments (H	TA)				
		Eo	onomic Evaluations (EED	0				

b) Select and review the 2 main groups of interest for you in your subject field

Browse by Cochrane Review Group

Browse the Cochrane Database of Systematic Reviews by Cochrane Review Group ...



PubMed

c) The Childhood cancer Group will list current reviews on various paediatric topics. The Haematological Malignancies Group is more adult focused but may provide some useful reviews

Some examples of results

8	Antibiotic and other lock treatments for tunnelled central venous catheter-related infections in children with cancer
	Reineke A Schoot, Elvira C van Dalen, Cornelia H van Ommen, Marianne D van de Wetering Online Publication Date: June 2013
	Review Intervention
ð	Prophylactic antibiotics or G(M)-CSF for the prevention of infections and improvement of survival in cancer patients receiving myelotoxic chemotherapy
	Nicole Skoetz, Julia Bohlius, Andreas Engert, Ina Monsef, Oliver Blank, Jörg-Janne
	Vehreschild
	Online Publication Date: December 2015
	New search Review Intervention

Method 3: Comprehensive Subject and text word search

This method provides the most comprehensive search results. Listed below is a sample search based on our PubMed strategy listed later in this handout. The search history and brief listing of the first 3 Systematic Reviews in Cochrane are listed below.

Search Strategy:

Search Name:Antibiotic prophylaxisDate Run:20/03/17 19:40:49.507Description:Antibiotic prophylaxis search example March 20, 2017

ID	Search	Hits
#1	MeSH descriptor: [Neoplasms] explode all trees	60882
#2	Antibiotic Prophylaxis:kw	2144
#3	#1 and #2	166
#4	MeSH descriptor: [Anti-Bacterial Agents] explode all trees	10652
#5	Chemoprevention:kw	382
#6	prophyla*	27511
#7	{or #5-#6}	27738
#8	#1 and #4 and #7	175
#9	#3 or #8	270
#10	(child* or infan* or teen* or adolescen* or youth* or "young	239332
	adult*" or pediatric* or paediatric*)	

PubMed

#11 #9 and #10

Search results:

All Results (67)	Cochrane Database of Systematic Reviews : Issue 3 of 12, March 2017
Cochrane Reviews (8)	Issue updated daily throughout month
C Raviaw	There are 8 results from 9784 records for your search on #12 - #10 and #11 in Cochrane Reviews for strategy: CRTI - Antibiotic prophylaxis
O Protocol	Sort by Relevance: high to low ~
O Trials (51)	Select all Export all Export selected
Methods Studies (0) Technology Assessments (0) Economic Evaluations (5) Cochrane Groups (0)	Antibiotic prophytaxis for bacterial infections in afebrile neutropenic patients following chemotherapy Anat Gafter-Gvill , Abigail Fraser , Mical Paul , Liat Vidal , Theresa A Lawrie , Marianne D van de Wetering , Leontien CM Kremer and Leonard Leibovici Online Publication Date: January 2012
· All	Review
Current Issue	Prophylactic antibiotics for preventing Gram positive infections associated with long-term central venous catheters in oncology patients Marianno D van de Wetering , Job BM van Weensel and Theresa A Lawrie Online Publication Date: November 2013
Dx Diagnostic	Review
Overview	🕞 🔓 Low bacterial diet versus control diet to prevent infection in cancer patients treated with chemotherapy causing episodes of
Pg Prognosis	 neutropenia Elvira C van Dalen , Arno Mank , Edith Leclercq , Renée L Mulder , Michelle Davies , Marie José Kersten and Marianne D
Gia Qualitative	van de Wetering Outer Bublicater Date: Anil 2016
Cc Conclusions changed	Unine Publication Date: April 2016
Ns New search	IN THE REPORT OF

Method 4:

Run a search in your local database such as Scielo



PubMed

© 2015-2017, E.M. Uleryk consulting Do not copy, print, cut or reproduce without the written permission of the authors. All rights reserved. Use of any material, in whole or in part, is expressly forbidden without prior written consent.

67

• Search Steps:

Step 1	Change the research/clinical scenario into a search question by using the PICOT model or Concept Maps/Boxes where applicable.
Step 2	Identify the most relevant database(s) to search. Generally Cochrane Database of Systematic Reviews will be your first choice, followed by MEDLINE and EMBASE which is strong in drug literature coverage
Step 3	Identify the primary search concepts using your PICOT or Concept Map/Box chart, adding any related concepts. Decide if you need any quality filtering terms or limits to age groups, language, publication years etc. <i>Hint</i> : use disease terms rather than anatomical terms (e.g. brain diseases instead of brain) for more comprehensive results.
Step 4	Plan your search strategy (e.g. P and I and C and O or P and I and O, etc.) You will be using Boolean operators to combine your terms.
Step 5	 Check for the most appropriate vocabulary terms in your selected database MeSH for MEDLINE (Tools or mapping) EMBASE terms for EMBASE (Tools or mapping) CINAHL Thesaurus for CINAHL (CINAHL headings) Psychological Abstracts Thesaurus for PsycINFO (Tools or mapping) Textword (keyword) terms for Cochrane DSR MeSH terms for Cochrane CCTR Remember to check: all Scope notes for date of entry and previous indexing the Tree structures for related terms and use the Explode function to capture those terms. Use textwords when the vocabulary terms are inadequate
Step 6	Run your search and create your base set.
Step 7	Use the Limit function to eliminate animal, non-English language articles, or to select specific age groups as required.
Step 8	Use the most appropriate Evidence-based Quality Filtering terms as required.
Step 9	Revise search strategy as required (e.g. broaden or narrow the focus of the search, try a different angle)
Step 10	Print or Download or Email your search results. You can download references to bibliographic software management packages (e.g. Mendeley Zotero, EndNote, Reference Manager or RefWorks) Write-up your search strategy

Step 1 - Formulating a Search Question

As we discussed in the class you will need to analyze and translate your research question into a search question. Listed below are some sample questions with some preliminary analysis as to which study design or methodology would best measure the results.

RESEARCH/CLINICAL SCENARIO	SEARCH QUESTION
Children undergoing chemotherapy are susceptible to infections. I want to know if there are any studies evaluating the prophylactic use of antibiotics to prevent these infections	Is prophylactic use of antibiotics effective in eventing infections in paediatric oncology atients? • question of therapy
We have children presenting with fever, rales, hypoxia in our emergency department. Should I routinely send them for an x-ray to confirm pneumonia or simply start them on antibiotics?	 How sensitive are hypoxia, fever and rales vs. Chest x-ray in diagnosing children with suspected pneumonia? question of diagnosis
A teenage girl is showing signs of scoliosis. Should ecommend interventions to slow down the ogression of late-onset idiopathic scoliosis in a 14- ar-old girl?	What is the natural history of scoliosis? question of prognosis
There is increased availability and use of cell phones by young children. Has anyone studied how much radiation is actually emitted and the harm it causes young children?	Does cell phone use increase the risk of children developing brain tumours?Question of risk/causation/harm

• PICOT or Concept Map to select your search terms

Clinical/Research scenario:

"Most if not all <u>children</u> (0-18 years) undergoing <u>cancer</u> chemotherapy are more susceptible to infections. I want to know if there are any studies evaluating the prophylactic use of antibiotics to prevent these infections.

	Topic 1		Topic 2		Topic 3		Topic
	Cancer	А	Prophylactic	А	Children	А	Study Designs
		Ν	antibiotics	Ν	Adolescents	Ν	
		D		D		D	
	Synonyms/		Synonyms/		Synonyms/		Synonyms/
	search terms		search terms		search terms		search terms
0	All cancer		Prophylactic		Infant		Guidelines
R	Specific cancer		prophylaxis		Child		RCTs
	(e.g. Leukemia,		Antibiotics in		Adolescent		Clinical trials
	etc.)		general				
			or specific drugs				

Action: You can underline the key topics in your question or list them in the concept box

Write out your search question to check if you have the right combination **PubMed**

Search question

Is antibiotic prophylaxis effective in reducing/preventing bacterial infections in paediatric oncology patients?

Decide on your evidence based filter - clinical trials, guidelines, etc.

Step 2: Databases

Consider the scope and coverage of the databases listed below to determine which ones you should search. Check with your library for availability

Please note that PubMed and Medline are the same database

The National Library of Medicine in Bethesda, Maryland indexes the articles that appear in the MEDLINE database. NLM is the database producer.

PubMed is the National Library of Medicine's search interface/platform and is available free of charge for searching

The National Library of Medicine sells licensed copies of the MEDLINE database to commercial database aggregators such as OvidSP, ProQuest, EBSCOHost, etc. who make MEDLINE available on their own Search platforms. This means that NLM is also the database vendor.

To access MEDLINE or other subject databases on the aggregator search platforms your home institutional library must purchase a license. You need to check with your main library to see if you have access.

• Databases (Suggested list):

Cochrane Database (John Wiley & Sons, Ltd or OvidSP)

Access is available to the following subsections

- o Cochrane Reviews (Cochrane Database of Systematic Reviews
- o Cochrane Central Register of Controlled Trials
- o DARE (Database of Reviews of Effects- ceased at the end of March 2015)
- o Cochrane Methodology Register
- Health Technology Assessment Database
- NHS Economic Evaluation Database

EBM Reviews - ACP Journal Club Contains the full-text of ACP Journal Club, a publication of the American College of Physicians. The editors screen approximately 90 core medical titles (including paediatric titles) and identify studies that are both methodologically sound and clinically relevant. They write an enhanced structured abstract of the chosen articles and provide a commentary on the value of the article for clinical practice. Using this source, clinicians can quickly understand and apply to their practice important changes in medical knowledge, without having to read and synthesize for themselves thousands of journal articles. Every word of the document text in ACP Journal Club is searchable; including references, captions, and footnotes back to 1991.

EBM Reviews - CCTR (formerly Cochrane Central Controlled Trials Register) is a bibliographic database of definitive controlled trials. These controlled trials have been identified by contributors

PubMed

to the Cochrane Collaboration, through both online database and manual searching CCTR contains over 300,000 bibliographic references to controlled trials in health care. Cochrane groups and other organizations contribute their specialized registers; and these registers— together with references to clinical trials identified in MEDLINE and EMBASE—form the CCTR database. Contributors to the Cochrane Collaboration follow quality control standards to ensure that only reports of definite randomized controlled trials or controlled clinical trials are included.

EBM Reviews - Cochrane Database of Systematic Reviews

The Cochrane Database of Systematic Reviews (DSR) includes the full text of the regularly updated systematic reviews of the effects of healthcare prepared by The Cochrane Collaboration. The Collaboration is an international network of individuals and institutions committed to preparing, maintaining, and disseminating systematic reviews of the effects of health care. In pursuing its aims, the Cochrane Collaboration is guided by six principles: collaboration, building on people's existing enthusiasm and interests, minimizing duplication of effort, avoidance of bias, keeping up to date and ensuring access.

There are two types of reviews:

Complete reviews - Regularly updated Cochrane Reviews, prepared and maintained by Collaborative Review Groups

Protocols - Protocols for reviews currently being prepared (all include an expected date of completion). Protocols are the background, objectives and methods of reviews in preparation.

EBM Reviews – DARE ceased at the end of March 2015

The Database of Abstracts of Reviews of Effectiveness (DARE) is a Full Text database containing critical assessments of systematic reviews from a variety of medical journals. DARE is produced by the expert reviewers and information staff of the National Health Services' Centre for Reviews and Dissemination (NHS CRD) at the University of York, England, and consists of structured abstracts of systematic reviews from all over the world. DARE records cover topics such as diagnosis, prevention, rehabilitation, screening, and treatment. Every word of the document text in DARE is searchable, including references.

Clinicaltrials.gov – (National Library of Medicine) February 2000+ https://clinicaltrials.gov/

ClinicalTrials.gov is a Web-based resource that provides patients, their family members, health care professionals, researchers, and the public with easy access to information on publicly and privately supported clinical studies on a wide range of diseases and conditions. ClinicalTrials.gov currently lists 212,866 studies with locations in all 50 States and in 193 countries.

ClinicalTrials.gov was created as a result of the Food and Drug Administration Modernization Act of 1997 (FDAMA). FDAMA required the U.S. Department of Health and Human Services, through NIH, to establish a registry of clinical trials information for both federally and privately funded trials conducted under investigational new drug applications to test the effectiveness of experimental drugs for serious or life-threatening diseases or conditions. NIH and the Food and Drug Administration (FDA) worked together to develop the site, which was made available to the public in February 2000.

On July 1, 2005, the ICMJE (International Committee of Medical Journal Editors) established/released their policy recommending that all medical journal editors require, registration of clinical trials in a public trials registry at or before the time of first patient enrollment as a condition of consideration for publication and transparency in publishing either positive or negative results. Editors requesting inclusion of their journal on the ICMJE website recognize that the listing implies enforcement by the journal of ICMJE's trial registration policy.

PubMed

CINAHL 1982+ (Available through the EBSCOHost interface)

The Cumulative Index to Nursing & Allied Health (CINAHL) database provides authoritative coverage of the literature related to nursing and allied health. Virtually all English-language publications are indexed along with the publications of the American Nurses Association and the National League for Nursing. Primary journals from the major allied health fields are included, especially the rehabilitation literature (e.g. physiotherapy and occupational therapy). Selected journals are also indexed in the areas of consumer health, biomedicine, and health sciences librarianship. In total, more than 3100 journals are regularly indexed; online abstracts are available for more than 800 of these titles. There are more than 7000 records with full text now included and 1200 records with images. The database also provides access to healthcare books, nursing dissertations, selected conference proceedings, standards of professional practice, educational software and audiovisual materials in nursing.

EMBASE Classic + EMBASE1947+ (Ovid SP or Embase.com)

Indexed and distributed by Elsevier, EMBASE indexes the biomedical literature with a more European and Asian focus. The print version was Excerpta Medica There are approximately with 30 million+ records from 8,500+ currently published journals. Embase includes six million+ records and 2,900+ journals that are not covered by MEDLINE. Also, Embase Classic provides access to data going back to 1947. Embase is a complimentary database to MEDLINE. It's coverage of the drug, rehabilitation; complementary and alternative therapy literature is more complete than in MEDLINE.

LILACS 1982 - (World Health Organization http://lilacs.bvsalud.org/en/)

LILACS is the most important and comprehensive index of scientific and technical literature of Latin America and the Caribbean. For 29 years contributing to increase visibility, access and quality of health information in the Region.

MEDLINE 1946+ (PubMed, OvidSP, EBSCOHost, ProQuest)

Produced by the U.S. National Library of Medicine, the MEDLINE database is widely recognized as the premier source for bibliographic and abstract coverage of biomedical literature. MEDLINE encompasses information from Index Medicus, Index to Dental Literature, and International Nursing, as well as other sources of coverage in the areas of allied health, biological and physical sciences, humanities and information science as they relate to medicine and health care, communication disorders, population biology, and reproductive biology. More than 15 million records from more than 4300 journals are indexed, plus selected monographs of congresses and symposia (1976-1981). Abstracts are included for about 67% of the records.

MEDLINE in -Process & Other Non-Indexed Citations (OvidSP, EBSCOHost)

Produced by the National Library of Medicine's, this is database is used to store and make available them most recently published articles in journals indexed by MEDLINE. The electronic record contains the authors, title, abstract and journal citation, and this is all that is searchable until the indexers at NLM add MeSH heading(s), publication types, GenBank accession numbers, and other indexing data. The records are then added to the main MEDLINE database usually on a weekly basis. Use this segment if you are searching for a very recent reference and remember to use as many textwords as possible.

PsycINFO 1806+ (OvidSP, EBSCOHost, ProQuest)

The PsycINFO database covers the professional and academic literature in psychology and related disciplines including medicine, psychiatry, nursing, sociology, education, pharmacology, physiology, linguistics, and other areas. Coverage is worldwide, and includes references and abstracts to over 2500 journals (and in PsycINFO, to dissertations) in more than 30 languages, and to book chapters and books in the English language. Over 50,000 references are added annually. Popular literature is excluded.

SciELO (http://scielo.org/php/index.php?lang=en)

PubMed

SciELO (Scientific Electronic Library Online) is an electronic virtual library covering a collection of Spanish health scientific journals selected following pre-established quality criteria. The main aim of the SciELO project is to develop a common methodology for the preparation, storage, dissemination and evaluation of Spanish scientific literature in electronic format. The database is the product of a project developed by <u>BIREME</u> (the Latin American and Caribbean Center on Health Sciences Information), in partnership with <u>FAPESP</u> (Fundação de Amparo à Pesquisa do Estado de São Paulo). In Spain, the SciELO project is a collaboration between OPS/OMS and <u>Carlos III Health Institute ISCIII</u> and it is been developed by the <u>National Library of Health</u> <u>Sciences</u>. As of October 2015 the database included 1249 journal titles containing 573,525 references and 13,005,080 citations (i.e. cited references). The list of current titles included is available at <u>http://scielo.isciii.es/scielo.php?script=sci_subject&lng=en&nrm=iso</u>

SciELO Citation Index. (Thomson Reuters)

SciELO Citation Index is included in some institutional licenses of the Web of Knowledge (see below). Based on the citation analysis algorithms of Science Citation Index, this database includes approximately 650 titles (over 350 adding content to journals already covered in the Web of Science) with over 4 million cited references. It provides open access links to the full text through the SciELO site and is updated weekly from the SciELO Brazil data feed. Subject areas covered include Agricultural sciences, Applied social science, Biological sciences, Engineering, Exact and earth sciences, Health sciences, Linguistics, letters and arts, Mathematics, Physics, and Social sciences.

Scopus approximately 1996+ (SciVerse – Elsevier)

Scopus provides access to an abstract and citation database of peer-reviewed literature and quality web sources with smart tools to track analyze and visualize research, peer-reviewed research literature and quality web sources. With over 18,500 titles from more than 5,000 international publishers, SciVerse Scopus offers researchers a quick, easy and comprehensive resource to support their research needs in the scientific, technical, medical and social sciences fields.

Web of Knowledge (formerly Web of Science) 1899 + (Thomson Reuters)

The Web of Science provides seamless access to current and retrospective multidisciplinary information from approximately 8,700 high impact research journals. Web of Science also provides a unique search method, cited reference searching. With it, users can navigate forward, backward, and through the literature, searching all disciplines and time spans to uncover all the information relevant to their research. Users can also navigate to electronic full-text journal articles. Researchers can also calculate their H-Index impact factor. Check to see if your institutional license to Web of Science includes SciELO Citation Index.

Step 3 - Find Search Terms

You can start to type in terms in the search box, but for a more comprehensive and controlled search use the **MeSH Database** to find your **MeSH terms**.

Further information concerning the MEDLINE database is available at: https://www.nlm.nih.gov/pubs/factsheets/online_indexing_system.html https://www.nlm.nih.gov/pubs/factsheets/online_indexing_system.html https://www.nlm.nih.gov/pubs/factsheets/online_indexing_system.html https://www.nlm.nih.gov/pubs/factsheets/online_indexing_system.html https://www.nlm.nih.gov/pubs/factsheets/pubmed.html

Do this by clicking on the MeSH Database link under PubMed drop down menu or select the **MeSH Database** link under **More Resources**.

PubMed

Public ed. griv	PubMed V MeSH NCBI Web Site	ced		
	NLM Catalog Nucleotide OMIM PMC PopSet Probe Protein Clusters Protchem BioAssay PubChem Compound PubChem Substance PubMed	orises n r scienc nt from	nore than 24 million citations for biomedical literature from e journals, and online books. Citations may include links to PubMed Central and publisher web sites.	PubMed Commons Featured comment - Mar Reporting what we ext. D Emb challenge of interpreting findin 1.usa.gov/1BAEJtL
Using PubMed	PubMed Health SNP	NP PubMed Tools RA PubMed Mobile		More Resources
PubMed Quick Start Guide	SRA			MeSH Database
Full Text Articles	Taxonomy		Single Citation Matcher	Journals in NCBI Databases
PubMed FAQs	ToolKit	e .	Batch Citation Matcher	Clinical Trials
PubMed Tutorials			Clinical Queries	E-Utilities (API)
			Topic-Specific Queries	LinkOut

Find Search term 1

Type in the first search term from your concept Map **Neoplasms** on the MeSH Database screen and click **Search**

1		
Pub Ded giv	MeSH v neoplasms	0 Sec
uS National Library of Nedsone	amaginan lenimente	
National Institutes of Health	avvvilli al revolabilo	

> Permuted Index

The next screen will contain a list of MeSH terms containing the word Neoplasms called a Permuted Listing.

Check for the term(s) you require in this case Neoplasms. Resist the temptation to click in the box to the left of the term **UNTIL AFTER YOU HAVE READ THE SCOPE NOTE** and checked the indexing history.

MeSH	MeSH	💌 neoplasms		Search	
		Save search Limits A	dvanced		Help
Display Settings:	🛛 Summary, 20 per pa	ige	Send to: 🗹		
				PubMed search builder	-
Results: 1 to 20) of 177		<< First < Prev Page 1 of 9 Next > Last >>		
Neonlasms	ר				
1 New abnorma	growth of tissue. Mi	alignant neoplasms show a g	greater degree of anaplasia and have the properties of invasion and		
metastasis, c	ompared to benign n	eoplasms.			1.1
Year introduced	/diagnosis was NEOPLA	ASM DIAGNOSIS 1964-1965			
Neoplasms.	Second Primary			Add to search builder AND 💙	
2. Abnormal gro	wths of tissue that fo	llow a previous neoplasm but	are not metastases of the latter. The second neoplasm may have	Search PubMed	
the same or c	ifferent histological ty	ype and can occur in the sam	e or different organs as the previous neoplasm but in all cases		
arises from an treatment for	n independent oncoge the previous peoples	enic event. The development o m since genetic risk or predis	of the second neoplasm may or may not be related to the	Find related data	
Year introduced	1992	in since generic nak of predia	posnig lactors may actually be the cause.	Database: Select 💌	
				Find items	
Hypothalamic	Neoplasms				
 Denign and m types. Neopl 	alignant tumors of th asms of the hypothal	amus frequently originate from	n adjacent structures, including the OPTIC CHIASM, optic nerve		G
(see OPTIC N	ERVE NEOPLASMS	5), and pituitary gland (see Pl	TUITARY NEOPLASMS). Relatively frequent clinical	Search details	
manifestation	s include visual loss,	developmental delay, macroo	cephaly, and precocious puberty. (From Devita et al., Cancer:	"neoplasms"[MeSH Terms] OR neoplasms[Text Word]	
Principles and	1 Practice of Uncolog 1981	gy, 5th ea, p2051)			
rear introduceu.					

PubMed

> Scope Note and Tree Listing

View each term by clicking on the blue hyperlink. In PubMed the scope note, subheadings and the Tree listing appear on one continuous screen.

						My NCBI Sign
MeSH	MeSH 💌	Limits Advanced			Search	He
)isplay Settings; 🖂 F	ull			Send to: 🖂		
					PubMed search builder	
Neoplasms New abnormal growth	oftissue. Malignant neg	plasms show a greater degree of anaplas	ia and have the properties of invasion	and		
metastasis, compare	d to benign neoplasms .	NAGNOSIS 1964-1965				
PubMed search builde	er options	1304031313041303				
Subheadings:					Add to search builder At	
🔲 analysis		epidemiology	psychology		Search PubMed	
anatomy and	I histology	ethnology	radiation effects			
blood	and minipitors	genetics	radiography line imaging		Related information	
blood supply		growth and development	radiotherapy		PubMed - Major Topic	
Cerebrospin.	duced	immunology	secretion		Clinical Queries	
chemistry		injuries	statistics and numerical data		NLM MeSH Browser	
complication	s	legislation and jurisprudence	surgery		Do cont o stivite	
congenital		metabolism	therapeutic use		Recent activity	Turn Off Cle
diagnosis		mortality	transmission		🔍 neoplasms (177)	háo
🔲 diet therapy		nursing	transplantation			See mor
economics		parasitology pathology	ultrasonography ultrastructure			
education		physiology	urine			
embryology		physiopathology	virology			
Restrict to MeGH Main	r Topłe					
Do not include Mettre	terms found below this term	in the Mether Nerality				
http://termini						
 Neoptairm Turnorn 						
 Tumor 						
Cancer Cancers						
 Benign Neoplasms 						
 Neoplasms, Denig Benign Neoplasm 	2					
 Neoplasm, Benigh 						
lee Also						
 Antipens, freques 	ato .					
Antinecplastic Age	da .					
· DIM. Neoplasm						
 Oncodenii: Viruses Precancerous Con 	ationa					
FIRM, Republicant	thomas					
· Genes, Tumor Sup	10.6.6 10.0					
 AnticarcinosenicAd 	annta.					
Concentration Concentration	CB.					
Nancysla	Letten					
0	unita.					
	Aractioned Cysta					
	Bone Cysta -					
	Branchioma					
	Breast Cyst.					
	Hamartoma Syndrome, M	fultiple +				
	Pollictor Holl Syndromo					
	Pallister-Hall Syndrome					
	Tuberous Sclerosis					
Ne	plasms by Histologic Type					
	Histiocytic Disorders, Mal	lignant +				
	Leukemia +					
	<u>Leukerna</u> ·					
	Lymphatic Vessel Tumor	<u>s</u> +				
	Lymphoma +					
	Neoplasms, Complex an	d Mixed +				
	Noonlaeme Connective :	and Soft Ticcup +				
	Neopidsins, Connective a	and out inside *				
	Neoplasms, Germ Cell a	nd Embryonal +				
	Neoplasms, Glandular ar	nd Epithelial +				
	Neoplasms, Gonadal Tis	sue +				
	Neoplasms, Nerve Tissu	e +				
	Namianna Diama Call	× 				
	Neuprasms, Plasma Cell	+				
	Neoplasms, Vascular Tis	sue +				
	Nevi and Melanomas +					
	Odontogenic Tumors +					
	anlaeme hy Oito					
Ne	uprastitis by 510					
	Abdominal Neoplasms +					
	Anal Gland Neoplasms					
	Bone Neoplasms +					
	Brooot Neerlanne					
	Breast Neoplasms +					
	Digestive System Neopla	sms +				
	Endocrine Gland Neoplas	<u>sms</u> +				
	Eve Neonlaeme +					

PubMed

PubMed Explode

In the case of **neoplasms** there is only one term to add to our search. By selecting the general term **neoplasms** you have gone to the Top or Head of the Tree Listing. This results in an **Automatic Explode** or **Automatic OR** of all neoplasm terms. Adding Neoplasms with the

Add to search builder will result in an automatic explode of all of the terms. This will search for all the Neoplasms articles and create 1 set.

MeSH	M	eSH 🔽				Search	
		l	imits Advanced				Help
Display Se Neopla New abno metastasi Year introc PubMed s Bubheadi Bubheadi a a	ettings: Full Sms Irrmal growth of tissis s, compared to ben fuced: /diagnosis w .earch builder option ngs; analowsis anatomy and histolc	ue, Malignant neop Ign neoplasms , as NEOPLASM DI. Is Is	lasms show a greater degree of ana; AGNOSIS 1964-1965 epidemiology ethnology attionow	lasia and have the properties of invasion ar psychology radiation effects	Send to: PubMec nd	I search builder Issas" [Nesh] search builder AND V PubMed	.::
	anagonists and inn alood alood supply cerebrospinal fluid chemistly classification	INITUTS	genetics growth and development fistory immunology injuries isolation and purification	autographi radiotherapy radiotherapy rehabilitation secretion statistics and numerical data supply and distribution	Related PubMed PubMed Clinical NLM MeS	information Major Topic Queries 24 Browser	
story				Query		Download history C	lear histo
Soarch				A STATE OF A		Items Ioullu	- Inte

Search Results for Neoplasms

Listed below is the results page for all of your articles discussing Neoplasms.

Resources 😂	How To 🖾			emuleryko	consulting My NCB
dvanced \$	earch Builder				You tube Tutoria
Use the	builder below to create	your search			
Edit					Clear
Builder					
	All Fields			Show index	list
AND ~	All Fields	•		Show index	list
Searci	or Add to history				
History			and the second of the	Download history	Clear history
Search	Add to builder		Query	Items found	Time
#:	Add Search	"Neoplasms"[Mesh]		277494	7 14:13:10

PubMed

NCBI Resources	How To 🖂			Sign in to NCBI
ub Qed on	PubMed v "Neoplasms"[Mesh]		0 Search	
I Rational Library of Imduces altornal Holffules of Health	RSS Save search Advanced			Help
laticle types	Summary + 20 per page + Sorted by Recently Added	f + Send to: +	Filters: Manage Filters	
Dinical Trial Review			New feature	

Find Search term 2:

Find and select the MeSH Database link on the dropdown menu and type in your second search concept **Antibiotic prophylaxis**.

There is no Permuted Index display for **Antibiotic prophylaxis** because it is the only term. You will see the full Scope Note and Tree Listing immediately. Make sure to check and read the Scope Note and Tree Listing.

The term **Antibiotic Prophylaxis** is a relatively new subject heading (since 1996) that was previously indexed under Premedication or the individual antibiotic with the subheading Therapeutic Use. Since we are searching for all Antibiotics we have some of the previous indexing covered. We will use some textwording for the general prophylaxis terms to make up the gap in indexing.

In addition, you will notice that **Antibiotic prophylaxis** is listed in 2 separate Tree Listings. We will use the Chemoprevention Tree

VIeSH	MeSH	 antibiotic prophylaxis 			O Search	
	1000 C	Save search Limits Advanced		Law Comme		2.796
Antibiotic Pro	Pull phylaxis dore, during, or after a	a diagnostic, therapeutic, or surgical procedure to p	revent infectious complications.	Send to: 🕑	PubMed Search Builder "Antibiotic Prophylaxi	s"[Nush]
PubMed search buil	der options					
adverse e	flects	instrumentation	standards		Add to search builder AND Search PubMed	Yest
contraind economic	ications is	mortality nursing	therapeutic use therapy		Related information	Tele Line Televis
ethics	logy	organization and administration pharmacology psychology	utilization		PubMed - Major Topic Clinical Queries	
Restrict to MeSH Do not include M	1 Major Topic. NeSH terms found beix	ow this term in the MeSH hierarchy.			NLM MeSH Browser	
ree Number(s): E0 leSH Unique ID: D ntry Terms: Premoicatio	2 319 162 150, E02 3 019072 in (1973-1995)	10 703 150			Recent Activity Q. antibiotic prochylaxis (1)	Jan.Of Geo
All MeSH Cat	eqories	<u>9921</u>			Recent activity	Turo Off Clear
Analytic	al, Diagnostic and Th	herapeutic Techniques and Equipment Category			Antibiotic Prophylaxis	Tunton clear
I	herapeutics				antibiotic prophylovic (1)	MeSH
	Drug Therapy				anubiouc propriyraxis (1)	MeSH
	Chemopre Antil	evention biotic Prophylaxis			Q ("Anti-Bacterial Agents"[Me Infective Agents"[Mesh] (4)	esh]) OR "Anti- 54190) PubMed
All MeSH Cat	eqories				Anti-Infective Agents	MeSH
<u>Analytic</u> T	al, Diagnostic and Th	herapeutic Techniques and Equipment Category			Anti-Bacterial Agents	MeSH
1	Drug Therapy					See more
	Premedica	ation				
	Antii	piotic Prophylaxis				

Add the term to your Add to search builder button and then click on the Search PubMed button

PubMed

Combine your first search using the terms for Neoplasms and Antibiotic prophylaxis in the first search box. To do this make sure you are in the Advanced search page

۷)			
PubMed Adv	anced Search Builder		
Builder			
Recent Query	#3 AND #5	0	
AND ~ All Fields		O O Show index lis	1
Search or Add to his	dory		
story		Download history	Clear histo
Search Add to builder	Query	Items found	Time
#5 Add	Search "Antibiotic Prophylaxis"[Mesh:NoExp]	1162	5 11:02

> Textword searching for prophylactic antibiotics

Since the term Antibiotic Prophylaxis is a relatively new term we should add some textword terms to catch any articles that may not have been indexed completely.

Remember TextWord searching is usually limited to the Title, abstract and institutional address fields. To add textwords for antibiotic prophylaxis, break-up the concept into 2 parts

- 1) search for all antibiotics
- 2) search for variations on the word prophylaxis, prophylactic, etc.

To do this use **MeSH** to find your Antibiotics subject terms. Repeat the steps for Finding Search Term 1 – Neoplasms.

a) Type in the term antibiotics in the MeSH search box

S NCBI	Resources 🕑 How To 🗵			My NCBL Sign In
MeSH	MeSH	entibiotics	8 Search	
		antibiotics	^	Help
		antibiotics m 4365		
Display Setti	ings: ⊡ Summary, 20 per pa	e antibiotics, antifungal		Ģ
		antibiotics antineoplastic	rch build	er 🖻

b) Select the term Anti-Bacterial Agents from the Permuted Listing

Ginesi neodanoo	e nuw iu e	,		MYNCE	i sign i
MeSH	MeSH	antibiotics		Search	
		Save search Limits Advanced			Help
Display Settings: 🕑 Sur	nmary, 20 per	page	Send to: 🗵		
				PubMed search builder	6
Results: 1 to 20 of 2	22		<< First < Prev Page 1 of 2 Next > Last >>		
Anti-Bacterial An	ents				
 Substances that re 	duce the grow	wth or reproduction of BACTERIA.			
Year introduced: 2004	(1963)				
Anti Bactorial An	onte (Pharma	colorical Action			
2.	enta prinarina	cological Action		Add to search builder AND 🚩	
				Search PubMed	
Antibiotics, Antine	eoplastic				
3 Chamical substand			114		

PubMed

- c) Add the term to the Search Builder
- d) Repeat the process by including Antibacterial Agents [Pharmacological Actions] this is an updated method of searching for drugs in MEDLINE
- e) Click on the Search PubMed button to retrieve the results

S NCBI Rese	ources 🕑 How To 🕾	emulen/kconsulting My NCBI Sign Out
MeSH	MeSH ~ Limits Advanced	Branch
Full + Anti-Bacteri Tree Number(s) MeSH Unique ID	al Agents [Pharmacological Action] 000990 000990	Send to: PubMed Search Builder ("Anti-Bacterial Agente"[Mesh]) OR "Anti-Bacterial Agente" (Pharmacological Action)
 (15,5R)-(() 1-(4-methode) 2,2-dimethode) 2,4-diacehode) 2-((4-pynd) 2-(othoxyc) 	(45) azepan-4 ylamino)carbonyl)-7-oxo-2,6-diazabicycio(3.2.0)heptane-6-sulfonic acid (Supplementary Conc oxyphenyl)-3-acetamido-4-methoxyazetidin-2-one (Supplementary Concept) ylgenam sulfone (Supplementary Concept) ylpionoglacinel (Supplementary Concept) insummethyl)-1,2,3-triazoi-1-y/methyl-6,6-dihydropenicillanate 1,1-dioxde (Supplementary Concept) arbonyl)-6,6-dihydropenicillanic acid (Supplementary Concept)	Add to search builder OR V Search PubMed Yee 🔂 Tutorial

f) Display your results

History Download history Clear history Search Add to builder Query Items found Time 638319 11:03:42 #10 Add Search ("Anti-Bacterial Agents" [Mesh]) OR "Anti-Bacterial Agents" [Pharmacological Action] #6 Add Search (#3 AND #5) 853 11:02:46 #5 Search "Antibiotic Prophylaxis"[Mesh:NoExp] 11625 11:02:20 Add #3 Add Search "Neoplasms"[Mesh] 2893576 10:59:59

Add subject and textwords for prophylaxis

Method1:

When we checked MeSH for the term Antibiotic prophylaxis, we saw a more general term for Chemoprevention in the Tree Listing. This is one term we should consider adding to find additional articles. Repeat the steps above to search Mesh for Chemoprevention

- a) click on the Chemoprevention term hyperlink
- b) Click on the Add to the search builder button to include the MeSH terms for both Chemoprevention or Antibiotic Prophylaxis. This is an EXPLODE for Chemoprevention
- Add/type the textword term for prophylaxis using the asterisk as a truncation symbol (e.g. prophyla*) directly into the Search Builder box with Chemoprevention (see below

Resou	rces 🖾 How To 🖾			emulerykconsulting My NCBI	Sign Out
MeSH	McSH · chemoprevention			O Search	
	Create alert Limits	Advanced			Help
Full -			Send to: -		
				PubMed Search Builder	۲
Chemoprever The use of chemics Year infroduced 19	1tion al compounds to prevent the development of a specit 196	fic disease		"Chemoprovention" [Mesh: Noffxp prophyle"]) or
PubMed search bu Subheedings	Ider options			Add to search builder AND ~	J

Method 2:

PubMed

Use the Advanced Search screen to type in the required term to list the results on separate search lines. To add the textword terms for prophylaxis word variations

1) Click on the Advanced Search button on the main search page of PubMed

NCBI Resources 🗹	How To 🗠	<u>Sign in to NCBI</u>
ub Med.gov	PubMed v	Search
National Library of Medicine tional Institutes of Health	S RSS Save search Advanced	Help

- 2) Type in the term **prophyla*** the asterisk is a wildcard symbol and will pick up all variations on the spelling of this term
- 3) Click on search to retrieve all of the results

	Resources 🕙 How	To C	consulting My	
PubMed	Home More Res	purces • Help		
PubMed	Advanced Sean	ch Builder	Yes all in the	
	prophyla*			
	Edit		Clear	
	Builder			
	All	Reids prophyla" O Show index	103	
	AND ~ AI	© O Show index	list	
listory	Search or	Add to history	Download history C	Jear histo
listory Search	And to builder	Add to history Query	Download history (Items found	Clear histor Time
History Search #12	Add to builder	Add to history Query Search "Chemoprevention"[Mesh:NoExp]	Download history C Items found 5041	Clear histor Time 11:04:26
History Search #12 #10	Add to builder Add	Add to history Add to history Query Search "Chemoprevention"[Mesh:NoExp] Search ("Anti-Bacterial Agents" [Pharmacological Action]	Download history 0 Items tound 5041 638319	Time 11:04:26 11:03:42
listory Search #12 #10 #6	Add to builder Add to builder Add Add Add	Add to history Add to history Query Search "Chemoprevention"[Mesh:NoExp] Search ("Anti-Bacterial Agents" [Pharmacological Action] Search (#3 AND #5)	Download history 0	Time 11:04:26 11:03:42 11:02:46
History Search #12 #10 #6 #5	Add to builder Add to builder Add Add Add Add	Add to history Add to history Cuery Search "Chemoprevention"[Mesh:NoExp] Search ("Anti-Bacterial Agents" [Pharmacological Action] Search (#3 AND #5) Search "Antibiotic Prophylaxis"[Mesh:NoExp]	Download history 0	Time 11:04:26 11:03:42 11:02:46 11:02:20

You are now ready to combine your search results according to your PICO or Concept Map needs. To do this you can

- 1) combine the sets one by one or
- 2) use the Advanced Search builder to combine multiple sets

Textword searching in PubMed

Searching for a phrase

 PubMed does not perform adjacency searching. However, many phrases are recognized by the MeSH Translation Table used in PubMed's <u>Automatic Term</u> <u>Mapping</u> (ATM). For example, if you enter the phrase

fever of unknown origin

PubMed recognizes this phrase as a MeSH Term. If a phrase is not recognized you can bypass ATM and search for a phrase using the following formats:

PubMed

Enclose the phrase in double quotes	"antibiotic prophylaxis"
Use a search tag	antibiotic prophylaxis[tw]
Use a hyphen	First-line
Truncate: antibiotic(s) prophylaxis	"antibiotic* prophyla*"

2) Other phrase searching tips:

- Using hyphen or quotes and the phrase is not found, the hyphen or quotes are ignored and the phrase is processed using automatic term mapping. Phrases may appear in a PubMed record but not be in the phrase index.
- Entering your search terms as a phrase PubMed will not perform automatic term mapping that includes the MeSH term and any specific terms indented under that term in the MeSH hierarchy. For example, "health planning" will include citations that are indexed to the MeSH term, Health Planning, but will not include the more specific terms, e.g., Health Care Rationing, Health Care Reform, Health Plan Implementation, that are included in the automatic MeSH mapping.
- **Truncating a word in a multi-word** search may result in an unexpected phrase search. For example the search, fetus infection* maternal will treat fetus infection* as a phrase. The results page search details box includes the search translations.
- Using the <u>Advanced search builder</u> show index list to browse the indexed phrases,. Select a search field, enter the beginning of a phrase, and then click Show index list.
- 3) Truncating search terms

To search for all terms that begin with a word stem, enter the word followed by an asterisk (*), the wildcard character – Remember to include British and American spelling variations

e.g. **hemophili*** - Finds terms that begin with the root term flavor, such as hemophilia or hemophilias or hemophiliacs

e,g, **haemophili*** - Finds terms that begin with the root term flavor, such as haemophilia or haemophelias or haemophiliac or haemophiliacs

- 4) More information about truncation:
- PubMed searches for the first 600 variations of a truncated term. If a truncated term (e.g., tox*) produces more than 600 variations, a warning message displays to lengthen the root word to search for all endings. Use toxic* instead.
- Truncation turns off <u>automatic term mapping</u> and the process that includes the MeSH term and any specific terms indented under that term in the MeSH hierarchy. For example, heart attack* will not map to the MeSH term Myocardial

Infarction or include any of the more specific terms, e.g., Myocardial Stunning; Shock, Cardiogenic.

- Truncating a word in a multi-word search may result in an unexpected phrase search. For example the search, fetus infection* maternal will treat fetus infection* as a phrase.
- Truncation stops at the end of a term and does not process beyond a space.

Step 4 -Combining Search Terms

Boolean Searching

All database search platforms use Boolean logic operators to combine your search terms.



OR

Open Fractures OR Closed Fractures

'OR' MEANS 'mORe'





Open Fractures NOT Closed Fractures

Combine your search terms - combining terms with OR first and then combine the terms with AND. To do this make sure you are in the Advanced search page

- Type in the set number for Neoplasms in search box 1 (e.g. #3)
 Type in the set number for the Anti-Bacterial Agents results in search box 2 (e.g. #21)
- 3. Type in the set numbers for chemoprevention and the prophylaxis textword terms in search box 3 - remember to include your OR (e.g. #23 OR #24)
- 4. Click on the Search button

	Recent Que	ry - #3 AND #10 AND #14	0		
AND	~ All Fields	× [003	Show index lis	
Soar	or Add to	history	Download histoor	Close histor	
Search	Add to builder	Query	Items found	Time	
#15	Add	Search (#3 AND #10 and #14)	1818	11:06:17	
#14	Add	Search (prophyla*) OR "Chemoprevention"[Mesh:NoExp]	153058	11:05:38	
#13	Add	Search prophyla*	149343	11:05:02	
#12	Add	Search "Chemoprevention"[Mesh:NoExp]	5041	11:04:26	
#10	Add	Search ("Anti-Bacterial Agents" [Mesh]) OR "Anti-Bacterial Agents" [Pharmacological Action]	638319	11:03:42	
#6	Add	Search (#3 AND #5)	853	11:02:46	
#5	Add	Search "Antibiotic Prophylaxis"[Mesh:NoExp]	11625	11:02:20	
	0.44	Search "Nacodagme"Mach	2893578	10-59-59	

3) Results of your final search set - combine your antibiotic MeSH results with your antibiotic textwords results

Builder				
	Recent Quer	d Query - #6 OR #15		
AND -	All Fields		C Show index	ist
<u>#16</u>	Add	Search (((#3 AND #10 and #14))) OR ((#3 AND #5))	2265	11:06:4
#15	Add	Search (#3 AND #10 and #14)	1818	11:06:1
#14	Add	Search (prophyla*) OR "Chemoprevention"[Mesh:NoExp]	153056	11:05:3
<u>#13</u>	Add	Search prophyla*	149343	11:05:0
#12	Add	Search "Chemoprevention"[Mesh:NoExp]	5041	11:04:2
<u>#10</u>	Add	Search ("Anti-Bacterial Agents" [Mesh]) OR "Anti-Bacterial Agents" [Pharmacological Acti	ion] 638319	11:03:4
<u>#6</u>	Add	Search (#3 AND #5)	853	11:02:4
#5	Add	Search "Antibiotic Prophylaxis" [Mesh:NoExp]	11625	11:02:2

Steps 5, 6, and 7: Study Design Search Filters or PowerSearch and Age Group Limits

PubMed has posted filtering terms developed by the Brian Haynes group from McMaster University in the Clinical Queries section. However, in this case you can select the filter for Clinical Trials available on the main search page. To do this

- 1) Click on the Customize hyperlink
- 2) Select the all of the article types listed for clinical trials (see below)
- 3) Your Base Clinical set will automatically be limited to these publication type



4) Next Customize and Select your required Age Groups

PubMed

Species	
Humans	
Other Animals	
Ages	clear
✓ Child: birth-18 years	
Adult: 19+ years	
✓ Young Adult: 19-24 years	
Customize	
	_
Customize	

5) Review your final search results by clicking on the hyperlink from the Advanced search page

History		Dow	vnload history C	lear history
Search	Add to builder	Query	Items found	Time
#39	Add	Search (((#3 AND #10 and #14))) OR ((#3 AND #5)) Filters: Clinical Trial; Clinical Trial, Phase I; Clinical Trial, Phase II; Clinical Trial, Phase II; Clinical Trial, Phase II; Clinical Trial, Phase IV; Comparative Study; Consensus Development Conference; Consensus Development Conference, NIH; Controlled Clinical Trial; Meta-Analysis; Multicenter Study; Pragmatic Clinical Trial; Randomized Controlled Trial; Research Support, American Recovery and Reinvestment Act; Research Support, N.I.H., Extramural; Research Support, N.I.H., Intramural; Research Support, Non-P.K.S.; Research Support, U.S. Gov't, Non-P.K.S.; Research Support, U.S. Gov't, Research Support, U.S. Government; Systematic Reviews; Child: birth-18 years; Young Adult: 19-24 years	292	11:12:49

Step 8 - Results Display

Your search history will look like this, click on the results number to view the results.

S NCBI Resources 🗹 Ho	w To 🕑	
Pub Aed gov Pu	ubMed (((#3 AND #10 and #14)))	OR ((#3 AND #5))
US National Library of Medicine National Institutes of Health	Create RSS Create alert A	dvanced
Article types clear	Format: Summary - Sort by: Most Recent -	Per page: 20 - Send to -
 Clinical Trial, Phase I Clinical Trial, Phase II 	Search results	
 Clinical Trial, Phase III Clinical Trial, Phase IV 	Items: 1 to 20 of 292	<< First < Prov Page 1 of 15 Next > Last >
Consensus Development Consensus Development Conference, NIH Controlled Clinical Trial Meta-Analysis Multicenter Study Pragmatic Clinical Trial	Filters activated: Clinical Trial, Clinical Tria Trial, Phase IV, Comparative Study, Conse Conference, NIH, Controlled Clinical Trial, Randomized Controlled Trial, Research Su Support, N.I.H., Extramural, Research Sug Research Support, U.S. Gov't, Non-P.H.S. Government, Systematic Reviews, Child: I	II, Phase I, Clinical Trial, Phase III, Clinical Trial, Phase II, Clinical ensus Development Conference, Consensus Development Meta-Analysis, Multicenter Study, Pragmatic Clinical Trial, upport, American Recovery and Reinvestment Act, Research oport, N.I.H., Intramural, Research Support, Non-U.S. Gov't, , Research Support, U.S. Gov't, P.H.S., Research Support, U.S. birth-18 years, Young Adult: 19-24 years. <u>Clear all</u>
Randomized Controlled Trial Research Support, American Recovery and Reinvestment Act Vesearch Support, N.I.H., Extramural	Emerging resistant bacteria strains in a prospective study by the Rete Ema Cattaneo C, Zappasodi P, Mancini V, A Verga L, Passi A, Da Vià M, Ferrari S, Ann Hematol. 2016 Dec;95(12):1955-1963.	a bloodstream infections of acute leukaemia patients: results o tologica Lombarda (Rel). Annaloro C, Pavesi F, Skert C, Ferrario A, Todisco E, Saccà V, Mometto G, Petullà M, Nosari A, Rossi G.
/ Research Support, N.I.H., Intramural / Research Support, Non-U.S.	PMID: 27650830 Similar articles	

Step 9 - Printing, downloading

Select the references you need and click on the Send To link. Select the format you wish to print, email or save for importing into management software.

PubMed

Mendeley is a free Bibliographic Management Software. EndNote is a commercially available Bibliographic Management Software. At a minimum, using either software will enable you to

- 1) import references from database searches, web searches
- 2) add pdf copies of the full-text of articles
- 3) add notes concerning the contents of the articles
- 4) import and list your references for submission to a journal

> Import into EndNote

- 1) Click on the Send To button
- 2) Select Citation Manager this PubMed format automatically will search for your Bibliographic Management Software on your computer
- Select Number to send PubMed will download a maximum of 200 references at a time. In this case we have 292 references which means we need to break the group into 2 segments. Select the first 200 references

S NCBI Resources 🖸	low To 🕙	emulerykcons
Publiced gav US National Locary of Medicine National institutes of results	PubMed (((#3 AND #10 and #14))) OR ((#3 AND #5)) Create RSS Create alert Advanced	O Searc
Article types de	Format: Summary + Sort by: Most Recent + Per page: 20 + Choose Destination	Send to - Filters: Manago Filter
 Clinical Trial, Phase I Clinical Trial, Phase II Clinical Trial, Phase III Clinical Trial, Phase IV 	Search results Items: 1 to 20 of 292	OCIpboard OE-mail OMy Bibliography
 Comparative Soldy Consensus Development Conference Consensus Development Conforence, NIH Controlled Clinical Trial Matta-Analysis Mutticenter Study Pragmetic Clinical Trial 	 Filters activated: Clinical Trial, Clinical Trial, Phase II, Clinical Trial, Phase IV, Comparative Study, Consensus Development Conference, C Conference, NIH, Controlled Clinical Trial, Meta-Analysis, Multicenter Study, Randomized Controlled Trial, Research Support, American Recovery and Rt Support, N.I.H., Extramural, Research Support, N.I.H., Extramural, Research Support, U.S. Govt, Non-P.H.S., Research Support, U.S. Govt, P. Government, Systematic Reviews, Child: birth-18 years, Young Adult: 19-24 	se with external citation re.
/ Randomized Controlled Tria / Research Support, American Recovery and Reinvestment Act / Research Support, N.I.H., Extramational	Emerging resistant bacteria strains in bloodstream infections of acut a prospective study by the Rete Ematologica Lombarda (Ref). Cattaneo C, Zappasodi P, Mancini V, Annaloro C, Pavesi F, Skert C, F Verga L, Passi A, Da Vià M, Ferrari S, Mometto G, Petullà M, Nosari A	

- 4) Click on Create a file
- 5) Select the remaining 92 references and change the Start from citation to 201



6) EndNote helper software opens automatically

PubMed

7) Click on OK to import references



8) References imported

EndNote X7 - (AGH_test) EndNote X7 - (AGH_test) File Edit References Groups G C Annotated_Number	Tools Window ed,26dec21 *	Help	4100		🗑 📑 🌮 🥝 🛎 🔞 Curch Search	P 🔬 🕱 Show Search Panel	
My Library	Pages	Reco	Author	Year	Title	Journal/Second Reviewed Item	Type of Work
All Referen (200)	1955	380	Cattaneo, C	2016	Emerging resistant bacteria st	Ann Hematol	
Imported R., (200)	194-200	381	Cukiert, A.;	2016	Technical aspects of pediatric	Epilepsia	
Unfiled (200)	350-8	382	McCutcheo	2016	Predictors of Surgical Site Infe	World Neurosurg	
Trash (0)	96-104	383	Armand, P.;	2016	The addition of sirolimus to th	Br J Haematol	
(0)	291-4	384	Agha, A.; S	2016	Peri-transplant clostridium dif	Am J Hematol	
- My Groups	532-8	385	Haeusler, G	2015	Management of fever and neu	Curr Opin Infec	
Online Search	207-14	386	McGrady,	2016	Medication adherence decisio	Eur J Oncol Nurs	
Library of (0)	301-7	387	Principi, N.;	2016	Streptococcus pneumoniae ph	Hum Vaccin Im	
QLISTA (EBS (0)	1465-72	388	Montesino	2015	Incidence and risk factors of p	Bone Marrow	
Couldered ((0)							

 Add Reviewed Item notes- from the **Tools** DropDown menu select the Change/Move/Copy Fields function to add the name of the database used to find these references or add any other notes about the articles.



PubMed

> Import into Mendeley

- 1) Click on the Send To button
- 2) Select File
- 3) Select MEDLINE in the format this is a generic import format called RIS used in most Bibliographic Management Software programs

In .			
Public ed gov Pu	ubMed - (((#3 AND #10 and #14))) OR ((#3 AND #5))		O Sea
US National Library of Medicine National Institutes of Health	Create RSS Create alert Advanced		
Article types clear	Format: Summary + Sort by: Most Recent + Per page: 20 +		Send to + Filters: Manago Fi
Clinical Trial		Choose Destinati	on
Clinical Trial, Phase I	Capreh require	(CEIn)	OClinboard
Clinical Trial, Phase II	Search results	OCollections	OF-mail
Clinical Trial, Phase III	Items: 1 to 20 of 292	Order	O Mu Bibliographu
Comparative Study		OCitation manage	of my bibliography
Consensus Development Conference Consensus Development Controlled Clinical Trial Meta-Analysis Multicenter Study Pragmatic Clinical Trial	Filters activated: Clinical Trial, Clinical Trial, Phase I, Clinical Trial, Phase III, Trial, Phase IV, Comparative Study, Consensus Development Conference, C Conference, Nih, Controlled Clinical Trial, Meta-Analysis, Muticenter Study, Randomized Controlled Trial, Research Support, American Recovery and Re Support, N.I.H., Extramural, Research Support, N.I.H., Inframural, Research Research Support, U.S. Gov't, Non-P.H.S., Research Support, U.S. Gov't, P. Government, Systematic Reviews, Child: birth-18 years, Young Adult: 19-24	Download 292 iter Format MEDLINE Summary (text) Abstract (text)	"
Randomized Controlled Trial	Emerging resistant bacteria strains in bloodstream infections of acut	MEDLINE	
Research Support, American Recovery and Reinvestment Act	 a prospective study by the Rete Ematologica Lombarda (Rel), Cattaneo C, Zappasodi P, Mancini V, Annaloro C, Pavesi F, Skert C, Fel Versa I, Resei A, Da Viá M, Serardi S, Merseta A, Belvilli M, Negel A. 	XML IT PMID List	Saccá V, Search

4) The file will open in Notepad - leave it as a text file

Summary - 100 per page -	Santad hu Recently Added
	Opening pubmed_result.txt
Results: 61	You have chosen to open:
Filters activated: Clinical	pubmed_result.txt
Prophylactic first-line a	which is: Text Document from: http://www-ncbi-nlm-nih-gov.myaccess.library.utoronto.ca
Feng X, Ruan Y, He Y, Acta Haematol. 2014;132(PMID: 24525963 [PubMed Related citations	What should Firefox do with this file?
Incidence, risk factors transplantation in 720	Do this automatically for files like this from now on.
Piñana JL, Montesinos Lahuerta JJ, Debén G, D, Sanz MÁ.	OK Cancel P, adrór

5) Name and Save the text file to your hard drive and name as

1: Feng X, Ruan Y, He Y, 2	hang Y, Wu X, Liu H, Liu X, He L, Li C. Prophylacti	c	
first-line antibiotics re chemotherapy-induced agra	Save As		×
Haematol. 2014;132(1):112 PMID: 24525963.	🔄 🗇 - 🕈 👗 - Documents > ASH Courses + 🚽 &	Search ASH Courses	ρ
	Organize • New folder	81 ·	
2: Piñana JL, Montesinos	Name	Date modified	Type
Figuera A, Barba P, Lahue Lavilla E, Gascón A, Mart	This PC	2015-03-24 7:53 PM	file
outcome of bacteremia fol transplantation in 728 ad 10.1007/s00277-013-1872-4	Documents Downloads Music	2015-03-25 11.26 A., 2015-03-25 11.44 A.,	Text
3: Liu X, Huang Y, Yang D [Prophylaxis of invasive of itraconazole in patien randomized, controlled tr doi: 10.3760/cma.i.issn.0	¥ Pictures ¥ Videos ∰ Windows8,05 (C → My Passport (C) → €	_	,
4: Koh H, Hino M, Ohta K, Yoshida M, Tanimoto M, Oh	Tile name i mendeley import sample pubmed Save as type: Text Documents (".txt)		* *
Aged: 65+ years Customize	# Hide Folders Encoding: UTF-8	v Save Cancel	

> Import into Mendeley

To do this

- 1) Open your Mendeley software
- 2) Select File Import- RIS format

M				Meno	deley	Desktop	
File	Edit View Tools Help						
	Add Files	Ctrl+O					
	Add Folder	Ctrl+Shift+O					
	Watch Folder						
	Add Entry Manually					Dublished	
Γ	Import		-	BibTeX (*.bib)	rear	Published	n hadiatric a
	Export	Ctrl+E		EndNote XML - EndNote v8,	X1 to	<u>X3 (*.xm</u> l)	Deciación Con
	Send by E-mail			RIS - Research Information Sy	ystems	s (*.ris)	ologica
	Merge Documents			Zotero Library (zotero.sqlite)			
	Delete Documents		ploni	zation and infection in children	199	Medical and	pediatric or
	Remove from Folder		e iei				

Step 10 - Search strategy write-up

Increasingly journal publishers require authors to provide a copy of their search strategy not only to verify the quality of the literature search but also to provide their readers with the ability to reproduce the search. This is especially true for systematic review searches. To save word count we suggest incorporating the search strategy into an Appendix.

If you require a flow diagram, you can use your bibliographic management software to provide you with the total number of references, the duplicate citations from multiple database searches, the number of excluded and included studies.

Included below is a sample the search strategy for this search

1) Click on the Download History button on the Advanced Search page

PubMed

History	nload history C	lear history		
Search	Add to builder	Query	Items found	Time
<u>#47</u>	<u>Add</u>	Search ((#25 OR #26)) Filters: Clinical Trial; Clinical Trial, Phase I; Clinical Trial, Phase II; Clinical Trial, Phase IV; Consensus Development Conference; Consensus Development Conference, NIH; Controlled Clinical Trial; Meta-Analysis; Multicenter Study; Pragmatic Clinical Trial; Randomized Controlled Trial; Research Support, N.I.H., Extramural; Research Support, Non-U.S. Gov't; Research Support, N.I.H., Intramural; Research Support, U.S. Gov't, Non-P.H.S.; Research Support, U.S. Government; Systematic Reviews; Child: birth-18 years; Young Adult: 19-24 years	<u>239</u>	15:01:36

2) Copy the excel spreadsheet information into your word document that you submit for publication. You will need to edit some of the extra search lines

#47	Add	Sear Phas Conf Ranc Gov't	OK Cancel	041	ial, Phase II; C nsensus Deve /; Pragmatic C ch Support, No Non, P.H.S.; Re
Search	Add to builder		Do this automatically for files like this from now on.		
History			Qpen with Microsoft Excel (default) Save File		
Search or Add to history			which is: Microsoft Excel Comma Separated Values File (820 bytes) from: http://www.ncbi.nlm.nih.gov What should Firefox do with this file?		
AND ~	All Fields		history.csv		
	All Fields		You have chosen to open:		
Builder		(Opening history.csv	\times	1
Edit					

PubMed was searched on March 20, 2017 using the following strategy (edited version)

Search	Query	Items found
#1	Search "Neoplasms"[Mesh]	2893576
#2	Search "Antibiotic Prophylaxis"[Mesh:NoExp]	853
#3	Search (#1 AND #2)	788
#4	Search ("Anti-Bacterial Agents"[Mesh]) OR "Anti-Bacterial Agents" [Pharmacological Action]	638319
#5	Search "Chemoprevention"[Mesh:NoExp]	5041
#6	Search prophyla*	149343
#7	Search #5 OR #6	153056
#8	Search #1 AND #4 AND #7	1818
#9	Search ((#3 OR #8))	2269
#10	Search ((#3 OR #8)) Filters: Clinical Trial; Clinical Trial, Phase I; Clinical Trial, Phase II; Clinical Trial, Phase III; Clinical Trial, Phase IV; Consensus Development Conference; Consensus Development Conference, NIH; Controlled Clinical Trial; Meta- Analysis; Multicenter Study; Pragmatic Clinical Trial; Randomized Controlled Trial; Research Support, N.I.H., Extramural; Research Support, Non-U.S. Gov't; Research Support, N.I.H., Intramural; Research Support, U.S. Gov't, Non- P.H.S.; Research Support, U.S. Government; Systematic Reviews; Child: birth-18 years; Young Adult: 19-24 years	292

PubMed

NCBI Login – Save search strategies or Alerts

Every search platform provides you with the opportunity to

- 1) save your search strategies to re-run at a later date
- 2) receive regular updates of new articles on your topic

In PubMed to take advantage of this search feature you need to create a NCBI account and then save your search strategies for future use. To do this

a) Create your NCBI account login by clicking on the **Sign in to NCBI** link in the upper right hand corner of the main PubMed page

S NCBI Resources 2 H	aw To 🖻			Sign in to NCB
Publiced gov P	PubMed -		Search	
tos hatanar Lanary of headh. Tarihinal institutes of headh.	Advanced			Help
b) Click or informa	n the Register for a tion	n NCBI account link and t	fill in the required	
Bign in to Ne	CBI			
Sign in with Coogle See more 3rd pa	Cor ty skin in obtions Off	nmons.		
PACIESE LAnserson	1162			
[Francoword]	1			
Prorport PM	for an NGBLaccount			
organise for an inclusive count		Actives Visite Linkership		
required momenton		(constraint)		
abot a username and password		<u></u>		
tamane *				
openi panoword *				
intext information				
mail."				
case you forget your password				
case provide a quantion and answer that	If you carri use to unlock your account.			
wendeurt				
nowor				
wave type the following characters."	BeBAb			

c) Once you have created your account and signed in you are ready to open a saved search or create a new one.

ICBI Resources 🕙 How To 🕤	emuleryksonsulling My NG
y NCBI	Customize this page NCBI Site Preferences Video Overview
Search NCBI databases • ×	Saved Searches
Search PubMed v	Search Name What's New Last Search
Hint, clicking the "Search" button without any terms listed in the search box will transport you to that database's homepage.	()) () 1 6 days ago ()) () () 1 6 days ago ()) () () NA 7 days ago () () NA 7 days ago Manage Saved Searches a Manage Saved Searches a
My Bibliography	Collections
Your bibliography comains 31 mems	Collection Name Items Settings/Straing Type
Share your bibliography with this URL: http://www.ncbi.iden.nih.gov/ster/mwncbi/1D/1/3E5/204/sbibliography/48773464/public/?sort=da t&denctions_descenting	Eavantes edt 0 O Droate Standard My Bibliography edt 31 O Droac Standard
Most recent citations:	Other, Citatoria edit 0 O Private Standard
Avia ML, Stinson J, Kiss A, Brandillo LR, Uleryk E, Feldman BM. <u>A critical review of scoring</u> options for clinical measurement tools. BMC Res Notes. 2015 Oct 28:8:012. doi:	Manage Collections >

Save the current search:

1) Click on the Create Alerts link - make sure you are signed in to your NCBI account



© 2015-2017, E.M. Uleryk consulting Do not copy, print, cut or reproduce without the written permission of the authors. All rights reserved. Use of any material, in whole or in part, is expressly forbidden without prior written consent.

Id you like e-mail updates of new search results?

Cancel

No, thanks. Yes, please

Save an Automatic Search Update

PubMed

1) Click on the Create Alert hyperlink

Skip saving and return to your search, or proceed to manage your Saved Searcher

- 2) Fill in the required information making sure you change the highlighted default settings to what appears in the example below
 - a) Indicate you need an update. By clicking YES
 - b) Check your email address
 - c) Change the maximum **Number if items** to 200 and click on the send an email notification even if there are no results
 - d) Add a note to your email subject line indicating the search topic to identify your various search updates

S NCBI Resources 🖾 How To 🖸	emulerykconsulting My NCBI Sign Out
My NCBI » Saved Searches	Saved Searches help
Your PubMed search	
Name of saved search: Antibiothic Prophylaxis	
Search terms: (((("Neoplasms" [Mesh]) AND (("Anti- Bacterial Agents" [Mesh]) OR "Anti- Bacterial Agents" [Pharmacological Test search terms	
Filters: Clinical Trial, Clinical Trial, Phase I, Clinical Trial, Phase III, Clinical Trial Development Conference, NIH, Controlled Clinical Trial, Meta-Analysis, Multicenter Stud Reinvestment Adt, Research Support, N.I.H., Extramural, Research Support, N.I.H., Intra Govt, P.H.S., Research Support, U.S. Government, Systematic Reviews, Child: birth-18 y	II, Phase II, Clinical Trial, Phase IV, Comparative Study, Consensus Development Conference, Consensus by Pragmatic Clinical Trial, Randomized Controlled Trial, Research Support, American Recovery and mural, Research Support, Non-U.S. Govt, Research Support, U.S. Govt, Non-P.H.S., Research Support, U.S. rears, Young Adult. 19-24 years
Would you like e-mail updates of new search results? No, thanks. Yes, please. E-mail: emulenkconsulting@ramail.com (change)	
Schedule:	
Frequency: Monthly ~	
Which day? the first Monday 🗸	
Formats: Report format MEDLINE ~	
Number of items: Send at most 200 items V Send even when there aren't any new results	
Any text you want to be added at the top of your e-mail (optional): ASH - CRTI updates	
Save Cancel	Skip saving and <u>return to your search</u> , or proceed to <u>manage your Saved Searches</u> .

Suggested MEDLINE Quality Filtering Search Terms -

(Derived and updated from filters in the Cochrane Handbook, McMaster University and University of Alberta (Evidence-Based Medicine Toolkit **http://www.ebm.med.ualberta.ca**/)

Therapy (Effectiveness)

Set	
1	("clinical trial, all" or clinical trial).pt. or clinical trials as topic/
2	clinical trial, phase i.pt. or clinical trials, phase i as topic/
3	clinical trial, phase ii.pt. or clinical trials, phase ii as topic/
4	clinical trial, phase iii.pt. or clinical trials, phase iii as topic/
5	clinical trial, phase iv.pt. or clinical trials, phase iv as topic/
6	meta-analysis.pt. or meta-analysis as topic/
7	controlled clinical trial.pt. or controlled clinical trials as topic/
8	multicenter study.pt. or multicenter studies as topic/
9	randomized controlled trial.pt. or randomized controlled trials as topic/
10	pragmatic clinical trial.pt. or Pragmatic Clinical Trials as Topic/ or ((preference or practical or pragmatic or "real world" or naturalistic) adj5 trial*).ti,ab. [****New MeSH term 2014****]
11	Comparative Effectiveness Research/ or ((comparative adj2 effectiveness) or (CER adj5 (research* or method* or framework* or compari* or statement*))).ti,ab. [****New MeSH term 2010 related to Pragmatic Clinical Trials as Topic****]
12	Or/1-11

Diagnostic Tests (Effectiveness)

Set	
1	evaluation studies.pt. or evaluation studies as topic/
2	validation studies.pt. or validation studies as topic/
3	exp "sensitivity and specificity"/
4	predictive value of tests/
5	roc curve/
6	exp diagnostic errors/
7	false negative reactions/
8	false positive reactions/
9	observer variation/

PubMed

10	likelihood functions/
11	likelihood.mp. or (likelihood ratio:).mp.
12	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8 or 9 or 10 or 11

Prognosis/ Natural History (Sensitive)

Set	
1	cohort studies/ or longitudinal studies/ or follow-up studies/ or prospective studies/
2	case-control studies/ or retrospective studies/ or cross-sectional studies/
3	exp prognosis/
4	exp disease progression/
5	exp morbidity/
6	exp mortality/
7	exp survival analysis/
8	natural history.mp.
9	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8

Prognosis/ Natural History (Specific)

Set	
1	cohort studies/ or longitudinal studies/ or follow-up studies/ or prospective studies/
2	case-control studies/ or retrospective studies/ or cross-sectional studies/
3	exp prognosis/
4	exp disease progression/
5	exp morbidity/
6	exp mortality/
7	exp survival analysis/
8	natural history.mp.
9	Or/1-2
10	Or/3-8
11	9 and 10

Etiology/ Causation/ Harm (Sensitive)

Set		
1	cohort studies/ or longitudinal studies/ or follow-up studies/ or prospective studies/	

PubMed

2	case-control studies/ or retrospective studies/ or cross-sectional studies/
3	risk/ or logistic models/ or risk assessment/ or risk factors/
4	causality/ or precipitating factors/ or risk factors/
5	risk.mp.
6	(cause or causal or causation).mp.
7	odds ratio.mp.
8	relative risk.mp.
9	1 or 2 or 3 or 4 or 5 or 6 or 7 or 8

Etiology/ Causation/ Harm (Specific)

Set	
1	cohort studies/ or longitudinal studies/ or follow-up studies/ or prospective studies/
2	case-control studies/ or retrospective studies/ or cross-sectional studies/
3	risk/ or logistic models/ or risk assessment/ or risk factors/
4	causality/ or precipitating factors/ or risk factors/
5	risk.mp.
6	(cause or causal or causation).mp.
7	odds ratio.mp.
8	relative risk.mp.
9	or/1-2
10	Or/3-8
11	9 and 10