How to Conduct a Literature Search

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Family & Community Medicine Department

Thu, 28/9/2017

Outline

- What is a literature review

- What is a literature search

- Why do we do literature reviews

- The common literature databases

- How to conduct the search

- How to focus your search and apply limits

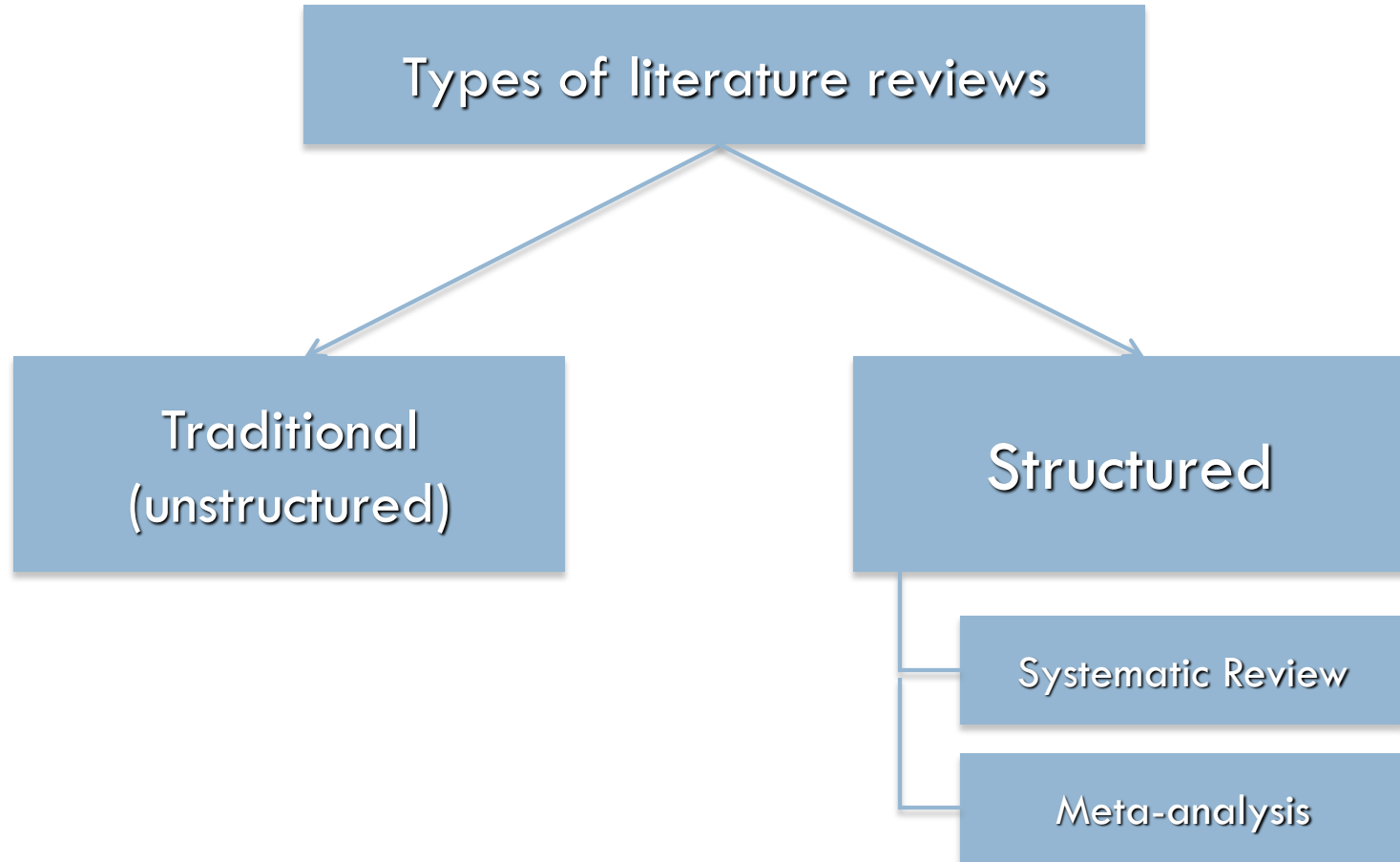- Practical Example

What is a literature review?

- It is an objective summary and critical analysis of all available research (and non-research) literature on the topic being studied

Source: Cronin P, Ryan F, Coughlan M. Undertaking a literature review: a step-by-step approach. Brit J Nurs 2008; 17(1): 38-43.

Types of literature reviews

Types of literature reviews

Traditional (unstructured)

Structured

Systematic Review

Meta-analysis

What is a literature search?

- "A <u>systematic</u> and thorough search of published literature in order to collect information about a particular topic" *

- Note that literature search is different from the literature review

- It is the means that we use in order to collect the appropriate data we want to include in our literature review

The Charted Society of Physiotherapy, UK

Why do we search the literature?

- ☐ To advance our medical knowledge
- ☐ For clinicians to answer questions about the best treatment
- ☐ Stimulates us to develop new research ideas through identifying gaps in knowledge
- ☐ Differentiate what has been done vs. what needs to be done
- ☐ Helps us learn about the newest developments in our area of research (and worldwide experts)
- ☐ To prepare a literature review for our project

Where do we start?

- Scientific databases

- Other search engines

- Journal databases (sometimes not indexed e.g. Ann Saudi Med, Saudi Med J….etc.)

- Books

- Governmental websites (e.g. unpublished estimates from the Ministry of Health)

- WHO

Google™

YAHOO!®

msn™

△.AOL.

Ask Jeeves®
Ask.com

alltheweb
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altavista™

Examples of scientific databases

General:

- PubMed/Medline
- Clinical Evidence
- Cochrane
- Best Evidence
- Best Treatment
- Trip database
- Bandolier

EBM Guidelines:

- NICE
- PRODIGY
- SIGN
- Others

More databases

- **CINAHL** - Cum. Index to Nursing and Allied Health Literature

  - http://www.cinahl.com

- **ERIC** – Education Resources Information Center

  - http://www.eric.ed.gov

- **PsycINFO –** A database of American Psychological Association

  - http://www.apa.org/psycinfo

- **Campbell Collaboration**

  - http://www.campbellcollaboration.org

- **BEME** - Best Evidence Medical Education

  - www.bemecollaboration.org

Regional and local databases

☐ Index Medicus of the Eastern Mediterranean Region

   ☐ http://www.emro.who.int/information-resources/imemr-database/

☐ Saudi Medical Literature:

   ☐ http://saudimedlit.librarynwafh.com/index.html

Evidence Based Guidelines

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

Start broad then refine your search

☐ Internet search/Any search engine

☐ Guidelines review

General overview

☐ Database search – Medline/PsycINFO

☐ Reference tracking-references in articles

Thorough search

☐ Use limits and boolean operators

☐ Expert contacts

Refining

Tips to optimize your search

- Well formulate your research question
- Decide what the criteria are for including or excluding the studies in your review
  - *English articles; age group? Gender? Exclude other conditions? region? country? ….etc.*
- Specify what sort of information you are searching for
  - *methods? outcomes? epidemiologic? intervention?*
- Having an outline for your literature review will help guide your literature search

What are Medline and PubMed?

□ **PubMed** is a database developed by the National Center for Biotechnology Information (NCBI) at the National Library of Medicine (**NLM**) available on the Web.

□ **NLM** is the worlds largest medical library

□ **NLM** has been indexing the biomedical literature since 1879

□ **MEDLINE** is a database of indexes (with citations and abstracts)

□ Since 1996, Medline is accessed for free through **PubMed**

□ **PubMed** database is more current and comprehensive than **MEDLINE** (it includes citations even prior to their indexing with **MEDLINE**)

Courtesy of Dr. Armen Torchyan, Family & Community Med, KSU

Practical example for searching through Medline

Formulate your research question

☐ For example, you are interested in learning about the association between TB and DM in Saudi Arabia, and you believe (based on previous knowledge) that DM may increase the risk of TB. However, what does it do to seropositivity?

☐ Research question:

How does DM influence seropositivity of TB in the Saudi population?

Decide what keywords to use

- Keywords are the words you will use in the search engine query box
- Published work that is available in Pubmed (and other databases) uses key words to index the articles
- It is wise to think of the key words that will give you coverage of what you are searching for

- "Type II DM", "TB", "Saudi Arabia", "seropositivity",
  - To see what has already been done first

Accessing Medline through SDL

□ https://access.library.ksu.edu.sa

SDL

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21

لضمان نتائج أكثر للمصادر العربية, يُرجى الدخول على القواعد العربية بشكلٍ مباشر

Q   Global search...   **Search**

Advanced Search

Arabic Databases	English Databases	eBooks	University Theses	Archives	Categories	Trial Databases

News

The Saudi Digital Library Signs Agreements with Governmental Universities   429 Views

3 May 2017 1:52 PM

A number of Saudi government universities have recently signed agreements to join the Saudi Digital Library (SDL) in a bid to ensure its diverse digital databases are available directly to all their employees, students, and faculty

SDL المكتبة الرقمية السعودية   وزارة التعليم

بسر المكتبة الرقمية السعودية دعوتكم للتسجيل في الدورات الإلكترونية " عن بعد "

All A B C D E F G H I J L **M** N O P R S T W

22

Math Science - MathSciNet - AMS

AMERICAN MATHEMATICAL SOCIETY
MathSciNet®
Mathematical Reviews
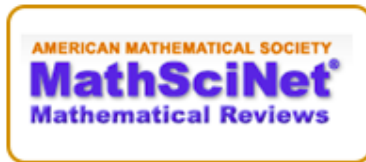
MathSciNet® is an electronic publication offering access to a carefully maintained and easily searchable database of reviews, abstracts and bibliographic information for much of the mathematical sciences literature. Over 100,000 new items are added each year, most of them classified according to the Mathematics Subject Classification.

Medical Evidence Matters - ProQuest

Medical Evidence Matters is an online healthcare knowledge management system to assist decision makers in their treatment choices for patients. The main goal is to provide quick and easy access to evidence extracted from research articles on particular topics.

Medline complete - EBSCO

EBSCO HOST

MEDLINE provides authoritative medical information on medicine, nursing, dentistry, veterinary medicine, the health care system, pre-clinical sciences, and much more. Created by the National Library of Medicine.

Medline Index - ProQuest

This database is a comprehensive collection of journals covering clinical

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EBSCO*host*

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English Databases | Result List: Tuberculosis: EBSCOhost

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☐ EBM Reviews

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☐ Magazines (324)

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Too many articles to search through

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1. **Assessment of a 96-Well Plate Assay of Quantitative Drug Susceptibility Testing for Mycobacterium Tuberculosis Complex in China.**

Academic Journal

(English) ; Abstract available. By: Xia H; Zheng Y; Zhao B; van den Hof S; Cobelens F; Zhao Y, Plos One [PLoS One], ISSN: 1932-6203, 2017 Jan 12; Vol. 12 (1), pp. e0169413; Publisher: Public Library of Science; PMID: 28081169

To evaluate the performance of the Sensitire MYCOTB MIC Plate (MYCOTB) which could measure the twelve anti-tuberculosis drugs susceptibility on one 96-wells plate.

Subjects: Anti-Bacterial Agents pharmacology; Drug Resistance, Multiple, Bacterial drug effects; Drug Resistance, Multiple, Bacterial genetics; Genes, Bacterial; Mycobacterium tuberculosis genetics; Mycobacterium tuberculosis growth & development; Tuberculosis, Multidrug-Resistant genetics

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2. **Recurrence after Successful Treatment of Multidrug-Resistant Tuberculosis in Taiwan.**

Academic Journal

(English) ; Abstract available. By: Chen MY; Lo YC; Chen WC; Wang KF; Chan PC, Plos One [PLoS One], ISSN: 1932-6203, 2017 Jan 26; Vol. 12 (1), pp. e0170980; Publisher: Public Library of Science; PMID: 28125692

Recurrence after successful treatment for multidrug-resistant tuberculosis (MDR-TB) is challenging because of limited retreatment options. This study aimed to determine rates and predictors of MD...

Subjects: Antitubercular Agents therapeutic use; Mycobacterium tuberculosis; Tuberculosis, Multidrug-Resistant drug therapy; Adult: 19-44 years; Aged: 65+ years; Middle Aged: 45-64 years; Young Adult: 19-24 years; All Adult: 19+ years; Female

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3. **Microbiologically Confirmed Tuberculosis: Factors Associated with Pre-Treatment Loss to Follow-Up and Time to Treatment Initiation**

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Refine search by **Boolean Operators**

- These make our search more to the point and help filter out all unneeded literature.

- **And** - both terms should be present
- **Or** - either search term should be present
- **Not** - the term should not be present

- TB **AND** DM
- TB **OR** DM
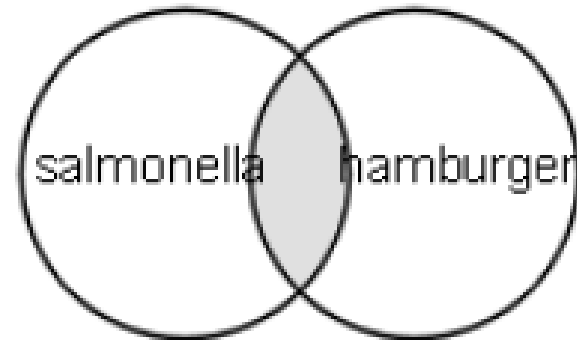- **NOT** children -> (only interested in adults)

Courtesy of Dr. Armen Torchyan, Family & Community Med, KSU

Boolean Operators

AND

- Salmonella AND Hamburger

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

Courtesy of Dr. Armen Torchyan, Family & Community Med, KSU

Boolean Operators

OR

☐ Football OR Hockey OR Soccer

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

Courtesy of Dr. Armen Torchyan, Family & Community Med, KSU
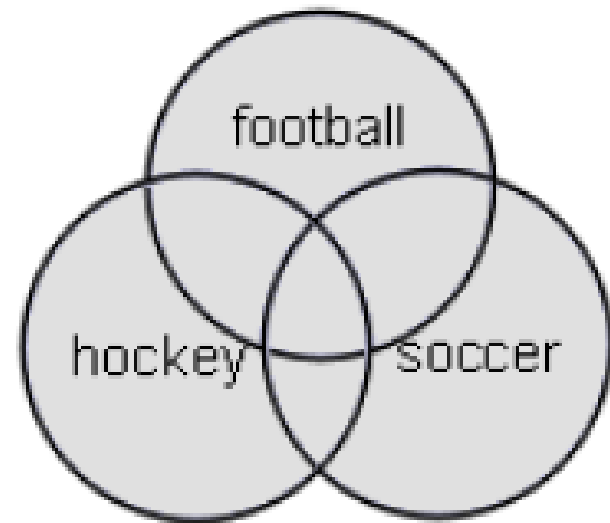
Boolean Operators

NOT

- Arthritis NOT Letter
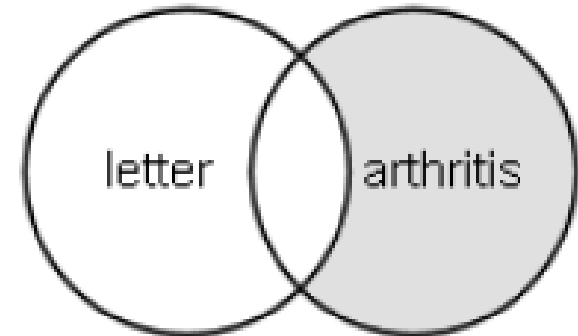
- Arthritis - 185375
- Letter - 686049
- Arthritis "excluding" letter **- 176352**

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Many studies have explored the relationship between **diabetes mellitus** (DM) and **tuberculosis** (TB) demonstrating increased risk of TB among patients with DM and poor prognosis of patients suffering...

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(English) By: Idiculla J, Indian Journal Of Endocrinology And Metabolism [Indian J Endocrinol Metab], ISSN: 2230-8210, 2017 Mar-Apr; Vol. 21 (2), pp. 359; Publisher: Medknow Publications]; PMID: 28459038

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The meningococcal capsule is an important virulence determinant. Unencapsulated meningococci lacking capsule biosynthesis genes and

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The meningococcal capsule is an important virulence determinant. Unencapsulated meningococci lacking capsule biosynthesis genes and

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3. Coccidioidomycosis infection in a predominantly Hispanic population.

Academic

(English) ; Abstract available. By: Pena-Ruiz MA; Meza AD; Mulla ZD, Annals Of The New York Academy Of Sciences [Ann N Y Acad Sci], ISSN: 0077-8923, 2007 Sep; Vol. 1111, pp. 122-8; Publisher: New York Academy of Sciences; PMID: 17344525

In Texas there are limited data on the epidemiology of coccidioidomycosis. Our goal is to determine the prevalence of coccidioidomycosis in a county hospital in El Paso, Texas. The charts of all ...

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In Texas there are limited data on the epidemiology of coccidioidomycosis. Our goal is to determine the prevalence of coccidioidomycosis in a county hospital in El Paso, Texas. The charts of all ...

Am I using the right keyword?

How can I make sure I'm not missing anything?

MeSH

- Medical subject headings (MeSH) is the database that uses hierarchy to index citations.

- This means that the database already has a created library of terms related to the term entered in the query box.

- This is usually arranged in hierarchy, from more general and broad term, to more specific term.

- This makes it easy for the searcher to catch all articles possibly related to the term entered in the query box. (automatic term explosion)

- It also helps you trace articles that have the EXACT word you are looking for.

English Databases | MeSH: EBSCOhost

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For example write "tuberculosis"

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(MH "Tuberculosis+") AND diabetes mellitus

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1997   Publication Date   2017

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1. **Tuberculosis screening among persons with diabetes mellitus in Pune, India.**

     (English) ; Abstract available. By: Mave V; Nimkar S; Prasad H; Kadam D; Meshram S; Lokhande R; Gupte N; Jain D; Gupta A; Golub JE; BMC Infectious Diseases [BMC Infect Dis], ISSN: 1471-2334, 2017 Jun 02; Vol. 17 (1), pp. 388; Publisher: BioMed Central; PMID: 28577535

Academic Journal

     Diabetes mellitus (DM) increases tuberculosis (TB) risk, and there is increasing concern over the public health implications of the convergence of these two epidemics. Screening for TB among peop...

     Subjects: **Diabetes Mellitus** microbiology; Tuberculosis diagnosis; Aged: 65+ years; Middle Aged: 45-64 years; All Adult: 19+ years; Female; Male

     📄 PDF Full Text (866.1KB)   ✴ PlumX Metrics

2. **Prevalence and associated factors of tuberculosis and diabetes mellitus comorbidity: A systematic review.**

     (English) ; Abstract available. By: Workneh MH; Bjune GA; Yimer SA, Plos One [PLoS One], ISSN: 1932-6203, 2017 Apr 21; Vol. 12 (4), pp. e0175925; Publisher: Public Library of Science; PMID: 28430796

Academic Journal

     The dual burden of tuberculosis (TB) and **diabetes mellitus** (DM) has become a major global public health concern. There is mounting evidence from different countries on the burden of TB and DM com...

     Subjects: **Diabetes** Complications epidemiology; **Diabetes Mellitus** epidemiology; Tuberculosis epidemiology; Female; Male

     📄 PDF Full Text (5.5MB)   ✴ PlumX Metrics

3. **Diabetes mellitus among tuberculosis patients: a cross sectional study from Pakistan.**

     (English) ; Abstract available. By: Tahir Z; Ahmad MU; Akhtar AM; Yaqub T; Mushtaq MH; Javed H, African Health Sciences [Afr Health Sci], ISSN: 1729-0503, 2016 Sep; Vol. 16 (3), pp. 671-676; Publisher: Faculty of Medicine, Makerere University; PMID: 27917198

Other helpful resources

☐ Try other search databases (Ovid, Science direct…all are available on SDL)

☐ **PubMed** is more comprehensive than Medline (you may want to look into PubMed)

☐ Search for tutorials on different databases

Items Included in PubMed

- 27 M articles from biomedical literature

- Some books from NCBI database

- journals directly from the publisher but not indexed in Medline yet

- Old articles that are not indexed in Medline

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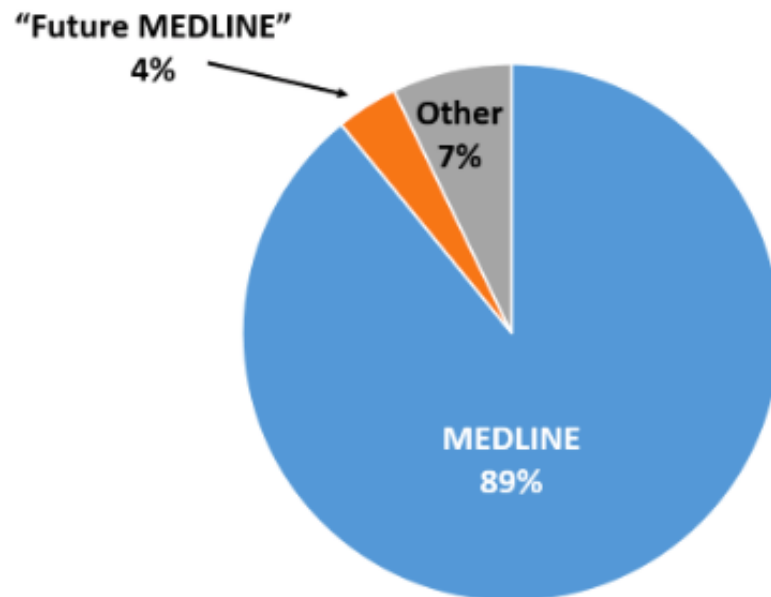
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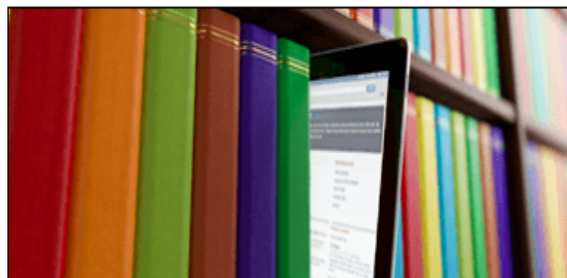
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J Biol Chem (20)

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PubMed records with recent increases in activity

The Graham-Cassidy Plan - The Most Harmful ACA-Repeal Bill Yet.
N Engl J Med. 2017.

Trispecific broadly neutralizing HIV antibodies mediate potent SHIV protection in macaques.
Science. 2017.

PubMed Commons

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bit.ly/2wR8DoX
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Scoring written health info: In reply, author P Jindal discusses limitations of commonly used readability formulas.
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☐ 1. **Diabetes mellitus** and **tuberculosis**: programmatic management issues.
Harries AD, Kumar AM, Satyanarayana S, Lin Y, Zachariah R, Lönnroth K, Kapur A.
Int J Tuberc Lung Dis. 2015 Aug;19(8):879-86. doi: 10.5588/ijtld.15.0069.
PMID: 26162352   Free PMC Article
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☐ 2. Acquired immunodeficiencies and **tuberculosis**: focus on HIV/AIDS and **diabetes mellitus**.
Ronacher K, Joosten SA, van Crevel R, Dockrell HM, Walzl G, Ottenhoff TH.
Immunol Rev. 2015 Mar;264(1):121-37. doi: 10.1111/imr.12257. Review.
PMID: 25703556
Similar articles

☐ 3. **Diabetes mellitus** and risk of all-cause mortality among patients with **tuberculosis** in the state of Georgia, 2009-2012.
Magee MJ, Foote M, Maggio DM, Howards PP, Narayan KM, Blumberg HM, Ray SM, Kempker RR.
Ann Epidemiol. 2014 May;24(5):369-75. doi: 10.1016/j.annepidem.2014.01.012. Epub 2014 Feb 8.
PMID: 24613196   Free PMC Article
Similar articles

☐ 4. Type 2 **diabetes mellitus** and its influence in the development of multidrug resistance **tuberculosis** in patients from southeastern Mexico.
Pérez-Navarro LM, Fuentes-Domínguez FJ, Zenteno-Cuevas R.
J Diabetes Complications. 2015 Jan-Feb;29(1):77-82. doi: 10.1016/j.jdiacomp.2014.09.007. Epub 2014 Sep 19.
PMID: 25303784

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Diabetes mellitus increased all-cause mortality rate among newly [Diabetes Res Clin Pract. 2017]
IL-6 and IL-18 cytokine gene variants of pulmonary **tuberculosis** patients wi [Gene. 2017]
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☐ **Diabetes mellitus and tuberculosis: programmatic management issues.**
1. Harries AD, Kumar AM, Satyanarayana S, Lin Y, Zachariah R, Lönnroth K, Kapur A.
    Int J Tuberc Lung Dis. 2015 Aug;19(8):879-86. doi: 10.5588/ijtld.15.0069.
    PMID: 26162352   Free PMC Article
    Similar articles

☐ Association of **diabetes** and **tuberculosis**--a major public health challenge.
2. Aravindalochanan V, Viswanathan V, Kumpatla S.
    J Indian Med Assoc. 2012 Sep;110(9):646-8.
    PMID: 23741839
    Similar articles

☐ Acquired immunodeficiencies and **tuberculosis**: focus on HIV/AIDS and **diabetes mellitus**.
3. Ronacher K, Joosten SA, van Crevel R, Dockrell HM, Walzl G, Ottenhoff TH.
    Immunol Rev. 2015 Mar;264(1):121-37. doi: 10.1111/imr.12257. Review.
    PMID: 25703556
    Similar articles

☐ Managing **tuberculosis** in patients with **diabetes mellitus**: why we care and what we know.
4. Jeon CY, Murray MB, Baker MA.
    Expert Rev Anti Infect Ther. 2012 Aug;10(8):863-8. doi: 10.1586/eri.12.75.
    PMID: 23030325
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Diabetes mellitus increased all-cause mortality rate among newly [Diabetes Res Clin Pract. 2017]

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ⓘ Filters activated: Publication date from 1997/01/01 to 2017/12/31, English. Clear all to show 2264 items.

☐ 1. Association between **diabetes mellitus** and **tuberculosis** in United States-born and foreign-born populations in San Francisco.
Suwanpimolkul G, Grinsdale JA, Jarlsberg LG, Higashi J, Osmond DH, Hopewell PC, Kato-Maeda M.
PLoS One. 2014 Dec 5;9(12):e114442. doi: 10.1371/journal.pone.0114442. eCollection 2014.
PMID: 25478954   Free PMC Article
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☐ 2. **Tuberculosis** and **diabetes mellitus**: convergence of two epidemics.
Dooley KE, Chaisson RE.
Lancet Infect Dis. 2009 Dec;9(12):737-46. doi: 10.1016/S1473-3099(09)70282-8. Review.
PMID: 19926034   Free PMC Article
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☐ 3. Clinical management of concurrent **diabetes** and **tuberculosis** and the implications for patient services.
Riza AL, Pearson F, Ugarte-Gil C, Alisjahbana B, van de Vijver S, Panduru NM, Hill PC, Ruslami R, Moore D, Aarnoutse R, Critchley JA, van Crevel R.
Lancet **Diabetes** Endocrinol. 2014 Sep;2(9):740-53. doi: 10.1016/S2213-8587(14)70110-X. Review.
PMID: 25194887   Free PMC Article
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☐ 4. The impact of **diabetes** on **tuberculosis** treatment outcomes: a systematic review.
Baker MA, Harries AD, Jeon CY, Hart JE, Kapur A, Lönnroth K, Ottmani SE, Goonesekera SD, Murray

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Diabetes mellitus increased all-cause mortality rate among newly [Diabetes Res Clin Pract. 2017]
IL-6 and IL-18 cytokine gene variants of pulmonary **tuberculosis** patients wi [Gene. 2017]
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Tuberculosis MeSH Descriptor Data 2017

Details   Qualifiers   MeSH Tree Structures   Concepts

MeSH Heading	Tuberculosis
Tree Number(s)	C01.252.410.040.552.846
Unique ID	D014376
Annotation	caused by various species of Mycobacterium; GEN: prefer specifics; if unspecified as just "tuberculosis", TUBERCULOSIS, PULMONARY is probably the correct heading but check text carefully; tuberculid: index under TUBERCULOSIS, CUTANEOUS; /drug ther: consider also ANTITUBERCULAR AGENTS; indexing policy: Manual 23.13.2
Scope Note	Any of the infectious diseases of man and other animals caused by species of MYCOBACTERIUM.
Entry Term(s)	Koch's Disease
	Kochs Disease
See Also	Antitubercular Agents
	Interferon-gamma Release Tests
	Tuberculin Test
Public MeSH Note	TUBERCULOSIS IMMUNITY was heading 1963-66
Online Note	use TUBERCULOSIS to search TUBERCULOSIS IMMUNITY 1966
History Note	TUBERCULOSIS IMMUNITY was heading 1963-66
Date Established	1960/01/01
Date of Entry	1999/01/01
Revision Date	2011/06/24

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Tuberculosis MeSH Descriptor Data 2017

Details   Qualifiers   **MeSH Tree Structures**   Concepts

Bacterial Infections and Mycoses [C01]
   Bacterial Infections [C01.252]
      Gram-Positive Bacterial Infections [C01.252.410]
         Actinomycetales Infections [C01.252.410.040]
            Mycobacterium Infections [C01.252.410.040.552]
               Leprosy [C01.252.410.040.552.386] ⊕
               Mycobacterium Infections, Nontuberculous [C01.252.410.040.552.475] ⊕
               Paratuberculosis [C01.252.410.040.552.588]
               Tuberculosis [C01.252.410.040.552.846] ⊖
                   Latent Tuberculosis [C01.252.410.040.552.846.122]
                   Peritonitis, Tuberculous [C01.252.410.040.552.846.246]
                   Tuberculoma [C01.252.410.040.552.846.493] ⊕
                   Tuberculosis, Avian [C01.252.410.040.552.846.516]
                   Tuberculosis, Bovine [C01.252.410.040.552.846.538]
                   Tuberculosis, Cardiovascular [C01.252.410.040.552.846.561] ⊕
                   Tuberculosis, Central Nervous System [C01.252.410.040.552.846.570] ⊕
                   Tuberculosis, Cutaneous [C01.252.410.040.552.846.583] ⊕
                   Tuberculosis, Endocrine [C01.252.410.040.552.846.606]
                   Tuberculosis, Gastrointestinal [C01.252.410.040.552.846.628]
                   Tuberculosis, Hepatic [C01.252.410.040.552.846.651]

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- PubMed: Find the Latest Treatments for a Disease
  How to quickly find articles about treatment for a disease using PubMed.

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Tutorials   4 resources

Title	Date	Runtime	Format
PubMed Tutorial (Our comprehensive tutorial on PubMed scope, content and features, including an in-depth explanation of PubMed Automatic Term Mapping (ATM).)	May 2017		HTML/Tutorial Source Page
PubMed for Nurses (This tutorial was created specifically to help nurses efficiently find literature using PubMed. Its concise, targeted content consists of five videos with exercises to test your knowledge. The tutorial was designed to be completed in less than 30 minutes.)	October 2015		HTML/Web Tutorial
Searching Drugs or Chemicals in PubMed (Learn to efficiently and effectively search substances in PubMed)	March 2017		HTML/Web Page
The Basics of Medical Subject Headings (MeSH®) in MEDLINE®/PubMed®: A Tutorial (An exploration of how Medical Subject Headings (MeSH) are used for indexing MEDLINE records in PubMed. This tutorial is intended for PubMed searchers.)	March 2017		HTML/Web Tutorial

Quick Tours   35 resources

Search Basics   8 resources

Title	Date	Runtime	Format
PubMed Simple Subject Search	August 2017	2 min.	MP4 Video/Video Tutorial
PubMed Simple Subject Search: How It Works	August 2017	2 min.	MP4 Video/Video Tutorial

PubMed Training and Tutorials

☐ https://learn.nlm.nih.gov/rest/training-packets/T0042010P.html

☐ PubMed overview tutorial:

  ☐ https://www.nlm.nih.gov/bsd/disted/pubmedtutorial/010_050.html

This page is extremely helpful so give yourself time to navigate

Another method for searching the literature (Endnote)

- To download:
  - http://etc.ksu.edu.sa/en/swtools

- Informative tutorial:
  - http://www.waikato.ac.nz/__data/assets/pdf_file/0012/204420/EndNote-Guide2-PC.pdf

- Guide for EndnoteX7:
  - http://endnote.com/training/mats/enuserguide/eng/endnote7/enguide-full.pdf

Evidence-based Medicine Database

- ☐ Cochrane Library:
  - ◘ http://www.cochranelibrary.com

- ☐ What is it?
  - ◘ A database for high-quality independent evidence that helps inform healthcare decision making

- ☐ How to use Cochrane:
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In Summary

- Literature search is a means to allow us to conduct a literature review

- Well focused questions, keywords, and criteria for search make the search more successful and time efficient

- Use search limits, MeSH terms and boolean operators to refine your search

- Don't be shy to ask experienced professionals for advice when needed

References

- JON O. EBBERT, MD, et al, Searching the Medical Literature Using PubMed: A Tutorial, Concise Review for Clinicians, Mayo Clin Proc. 2003;78:87-91

- A Sood*, AK Ghosh**, Literature Search Using PubMed: An Essential Tool for Practicing Evidence- Based Medicine, JAPI, VOL. 54, APRIL 2006

- Cronin P, Ryan F, Coughlan M. Undertaking a literature review: a step-by-step approach. Brit J Nurs 2008; 17(1): 38-43.

- Some of the slide material was courtesy of Dr Armen Torchyan and Dr Shaffi Ahmad, from the Family and Community Medicine Department, King Saud University

Thank you

Questions?