The Literature Search: PubMed and Zotero

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About me

• BA, Biology
• MLIS (Master of Library and Information Science)
• Worked in libraries at:
  • San Francisco
  • UC Berkeley
  • University of Minnesota
• University of Chicago since 2006
• dwerner@uchicago.edu
About Kaitlyn Van Kampen

• BA, Psychology (Pre-Medical concentration)

• MLIS (Master of Library and Information Science)

• Graduate Certificate in Information Management (Specializing in Data Analytics and Health Informatics)

• Worked in libraries at:
  • Kent District Library
  • Calvin University
  • University of Chicago since January

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Interesting fact
Disclaimer

This is my dog, Daisy.

Daisy barks. A lot.

You may hear her.
Develop a search strategy using keywords and controlled vocabulary in order to find relevant articles.

Retrieve the full text of articles in order to read and evaluate them.

Organize references using Zotero in order to easily find and cite articles.
Outline

PubMed
• Accessing PubMed
• Developing a search strategy
• Retrieving the full text of articles

Zotero
• Overview
• Setting up online sync
• Saving citations
• Creating a bibliography
Your literature review

Poll: Have you begun your lit review?
The literature search in PubMed
PubMed

Biomedical database with 30 million citations from:

- MEDLINE
- PubMed Central (PMC)
- life science journals
- online books

PubMed is the public interface for searching MEDLINE
What is MEDLINE?

Premier biomedical database containing citations to articles in biomedicine

Created and maintained by the National Library of Medicine (NLM) and National Institutes of Health

Citations from more than 5,600 worldwide biomedical journals published in about 40 languages

Coverage back to 1940s
Poll: What is your experience using PubMed?
Poll: Have you used the new PubMed interface?
The new PubMed site will become the default in mid-May.

[Click here to try it now!](#)
Exercise: PubMed Search

Find an article that answers:

What treatments are available for COVID-19?
Discussion

How many results did you retrieve?

Go to the Advanced Search and review the search Details

Were any MeSH terms searched?

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<th>Search</th>
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<tr>
<td>#17</td>
<td>...</td>
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<td><strong>Search: covid-19 treatments</strong> • ((((((&quot;covid 19&quot;[All Fields] OR &quot;covid 2019&quot;[All Fields]) OR &quot;severe acute respiratory syndrome coronavirus 2&quot;[Supplementary Concept]) OR &quot;severe acute respiratory syndrome coronavirus 2&quot;[All Fields]) OR &quot;2019 ncov&quot;[All Fields]) OR &quot;sars cov 2&quot;[All Fields]) OR &quot;2019ncov&quot;[All Fields]) OR ((&quot;wuhan&quot;[All Fields] AND &quot;coronavirus&quot;[MeSH Terms]) OR &quot;coronavirus&quot;[All Fields]) AND (2019/12/1:2019/12/31[Date - Publication] OR 2020/1/1:2020/12/31[Date - Publication])))) AND</td>
<td>1,526</td>
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What is MeSH?

Medical Subject Headings

A controlled vocabulary (thesaurus)

Gives uniformity and consistency to describing and searching the biomedical literature

Developed and maintained by NLM

MeSH terms found in MeSH Database:
MeSH

Pros
• Searches synonyms, multiple word endings, variant spellings
• Disambiguation of terms
• Targeted results

Cons
• Newest citations do not have MeSH terms and so not searched
• Some concepts (e.g. newer treatments) do not have MeSH terms
MeSH examples

Cold
- Air temperature
- Condition caused by a virus

MeSH terms:
- “Cold Temperature”
- “Common Cold”

Residents
- People in medical training
- People in long-term care facilities

MeSH terms:
- “Internship and Residency”
- “Nursing Homes”
Accessing MeSH database

PubMed® comprises more than 30 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full-text content from PubMed Central and publisher web sites.
Exercise: MeSH search

Find a MeSH term that will retrieve articles from the last five years on the detrimental effects of chocolate.

1. What MeSH term(s) represent the concept of chocolate?

2. What year was the term introduced?

3. How are the ‘detrimental aspects’ represented with MeSH?
**Chocolate**

Food product prepared from fermenting, roasting, and grinding seeds of the COCOA plant.

**Year introduced:** 2017

**PubMed search builder options**

- adverse effects
- analysis
- classification
- economics
- etiology
- microbiology
- organization and administration
- pharmacology
- statistics and numerical data
- therapeutic use
- toxicity

- Restrict to MeSH Major Topic.
- Do not include MeSH terms found below this term in the MeSH hierarchy.

**Tree Number(s):** G07.203.300.195, J02.500.195

**MeSH Unique ID:** D000059556

**Entry Terms:**

- Chocolates
- Cocoa Powder
- Cocoa Powders
- Powder, Cocoa
- Powders, Cocoa

**Previous Indexing:**

- Cacao (1963-2016)

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**Cacao**

A tree of the family Sterculiaceae (or Byttneriaceae), usually Theobroma cacao, or its seeds, which after fermentation and roasting, yield cocoa and CHOCOLATE.

**Year introduced:** 1991(1966)1963
Keywords (aka text words)

Pros

• Retrieves newest citations
• Uses current terminology
• Necessary when MeSH term does not exist

Cons

• Does not search synonyms and spelling variations
• Ignores context
  • Homonyms (cold, residents, etc.)
  • Negating expressions (but, except, never...)
Exercise: comprehensive search

Find all of the articles you can on:

What treatments are available for COVID-19?
Identify individual concepts & synonyms

What treatments are available for COVID-19?

What are the individual concepts?
• COVID-19/ treatments / adults? children?

What are some synonyms for each concept?
Search concepts separately, then combine

1. 2019nCoV OR COVID-19 OR 2019-nCoV OR SARS-CoV-2 OR "severe acute respiratory syndrome coronavirus 2" OR "novel coronavirus" OR “COVID-19”[Supplementary Concept]

2. Treatment OR therapy OR "therapeutics"[MeSH Terms]

3. #1 AND #2
Limit your results with Filters

Use the Article Types filter to get RCTs

- Select Customize to access the RCT filter

Use the Publication Dates filter for recent publications

Some Filters are Mesh!

- Age
- Species
- Sex
- Article Type*

There is a new public health crisis threatening the world with the emergence and spread of 2019 novel coronavirus (2019-nCoV) or the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). There have been around 98,000 reported cases of coronavirus disease 2019 (COVID-2019) and 3300 reported deaths to date (08/03/2020). ...

The epidemiology and pathogenesis of coronavirus disease (COVID-19) outbreak.

Rothan HA, Byrareddy SN.
PMID: 32113704

Coronavirus disease (COVID-19) is caused by SARS-CoV2 and represents the causative agent of a potentially fatal disease that is of great global public health concern. Person-to-person transmission of COVID-19 infection led to the isolation of patients that were subsequently administered a variety of treatments. ...

What we know so far: COVID-19 current clinical knowledge and research.

Lake MA.
PMID: 32139372

Subsequent investigations revealed a novel coronavirus, SARS-CoV-2, as the causative agent at the heart of a major outbreak. This article will review the new knowledge of SARS-CoV-2 COVID-19 acute respiratory disease, and summarise its clinical features...
Review your results

Do your results appear to answer the question?

How many results did you retrieve?

Is that too many or too few?
Improving your search

Narrow results
• Use more specific search terms
• Apply additional filters: Language, Publication Date, Article Type

Broaden results
• Use additional synonyms
• Broaden the search terms
• Remove filters

Find an article right on target?
• Look at its MeSH terms to identify other potential search terms

Searching is an iterative process; revise your search until you are satisfied with the results or satisfied you’ve done all you can
General search tips
Search tips for any database

Use multiple synonyms for concepts

Glean additional search terms from article titles and abstracts

Use controlled vocabulary (e.g. MeSH)

Use citation chaining to locate more articles

Take advantage of database functionality
Multiple synonyms

Contact Dermatitis

- Contact Sensitivities
- Contact Sensitivity
- Contact Eczema
- Contact Hypersensitivities
- Contact Hypersensitivity
Use titles & abstracts for search terms

**Contact Allergy**: A Review of Current Problems from a Clinical Perspective.

Uter W¹, Werfel T², White IR³, Johansen JD⁴.

**Author information**

**Abstract**

Contact allergy is common, affecting 27% of the general population in Europe. Original publications, including case reports, published since 2016 (inclusive) were identified with the aim of collating a full review of current problems in the field. To this end, a literature search employing methods of systematic reviewing was performed in the Medline® and Web of Science™ databases on 28 January 2018, using the search terms "contact sensitization" or "contact allergy". Of 446 non-duplicate publications identified by above search, 147 were excluded based on scrutiny of title, abstract and key words. Of the remaining 299 examined in full text, 291 were deemed appropriate for inclusion, and main findings were summarised in topic sections. In conclusion, diverse sources of exposures to chemicals of widely differing types and structures, continue to induce sensitisation in man and may result in allergic contact dermatitis. Many of the chemicals are "evergreen" but others are "newcomers". Vigilance and proper investigation (patch testing) are required to detect and inform of the presence of these haptns to which our populations remain exposed.

**KEYWORDS**: allergic contact dermatitis; contact allergy; exposure; review
Controlled vocabulary (e.g., MeSH)

Dermatitis, Contact
A type of acute or chronic skin reaction in which sensitivity is manifested by reactivity to materials or substances coming in contact with the skin. It may involve allergic or non-allergic mechanisms.

All MeSH Categories
Diseases Category
Skin and Connective Tissue Diseases
Skin Diseases
Dermatitis
Dermatitis, Contact
Dermatitis, Allergic Contact
Dermatitis, Photoallergic
Dermatitis, Toxicodendron
Dermatitis, Irritant
Dermatitis, Phototoxic
Diaper Rash
Dermatitis, Occupational
Citation chaining

Search citations backward and forward in time

Search an article’s references to find older articles

Use Google Scholar to find newer articles a relevant article

Example:


\text{Association between atopic dermatitis and contact sensitization: A systematic review and meta-analysis.}

\text{Hamann CR}^1, \text{Hamann D}^2, \text{Egeberg A}^3, \text{Johansen JD}^4, \text{Silverberg J}^5, \text{Thyssen JP}^4.
Search an article’s references

References

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   Atopic dermatitis
   Lancet, 387 (2016), pp. 1109-1122
   Article  Download PDF  View Record in Scopus  Google Scholar

   Skin barrier in atopic dermatitis
   Front Biosci (Landmark Ed), 19 (2014), pp. 542-556
   CrossRef  View Record in Scopus  Google Scholar

3. J.P. Thyssen, S. Kezic
   Causes of epidermal flaggrin reduction and their role in the pathogenesis of atopic dermatitis
   Article  Download PDF  View Record in Scopus  Google Scholar

4. J.P. Thyssen, J.P. McFadden, I. Kimber
   The multiple factors affecting the association between atopic dermatitis and contact sensitization
   Allergy, 69 (2014), pp. 28-36
   CrossRef  View Record in Scopus  Google Scholar

5. I. Jakasa, C.M. de Jongh, M.M. Verberk, J.D. Bos, S. Kezic
   Percutaneous penetration of sodium lauryl sulphate is increased in uninvolved skin of patients with atopic dermatitis compared with control subjects
   CrossRef  View Record in Scopus  Google Scholar

6. Halling-Overgaard AS, Kezic S, Jakasa I, Engebretsen KA, Maibach H, Thyssen JP.
   http://dx.doi.org/10.1111/bjd.13063. Published online September 17, 2016.
   Google Scholar

   Article  Download PDF  View Record in Scopus  Google Scholar

   Is there a risk using hypoallergenic cosmetic pediatric products in the United States?
   Article  Download PDF  View Record in Scopus  Google Scholar

9. M. Uehara, S. Ōjji
   Patch test reactions to human dander in atopic dermatitis
   Arch Dermatol, 112 (1976), pp. 951-954
   CrossRef  View Record in Scopus  Google Scholar

10. M. Uehara, T. Savai
    A longitudinal study of contact sensitivity in patients with atopic dermatitis
    Arch Dermatol, 125 (1989), pp. 366-368
    CrossRef  View Record in Scopus  Google Scholar

11. H.E. Jones, C.W. Lewis, S.L. McMarlin
    Allergic contact sensitivity in atopic dermatitis
    Arch Dermatol, 127 (1991), pp. 914-917
Use Google Scholar to find newer articles

Association between atopic dermatitis and contact sensitization: A systematic review and meta-analysis

CR Hamann, D Hamann, A Egeberg... - Journal of the American ..., 2017 - Elsevier

Background It is unclear whether patients with atopic dermatitis (AD) have an altered prevalence or risk for contact sensitization. Increased exposure to chemicals in topical products together with impaired skin barrier function suggest a higher risk, whereas the immune profile suggests a lower risk. Objective To perform a systematic review and meta-analysis of the association between AD and contact sensitization. Methods The PubMed/Medline, Embase, and Cochrane databases were searched for articles that...
Database functionality: PubMed

Create a personal account:
• Highlight search terms
• Save searches
• Have PubMed run search and email results to you

Use Filters
• Article types
• Publication dates
• Languages

Use “Similar articles” feature
Set up a personal account
There is a new public health crisis threatening the world with the emergence and spread of 2019 novel coronavirus (2019-nCoV) or the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). There have been around 96,000 reported cases of coronavirus disease 2019 (COVID-19) and 3300 reported deaths to date (05/03/2020). ...
Drug Treatment Options for the 2019-new Coronavirus (2019-nCoV)

Abstract

As of January 22, 2020, a total of 571 cases of the 2019-new coronavirus (2019-nCoV) have been reported in 25 provinces (districts and cities) in China. At present, there is no vaccine or antiviral treatment for human and animal coronavirus, so that identifying the drug treatment options as soon as possible is critical for the response to the 2019-nCoV outbreak. Three general methods, which include existing broad-spectrum antiviral drugs using standard assays, screening of a chemical library containing many existing compounds or databases, and the redevelopment of new specific drugs based on the genome and biophysical understanding of individual coronaviruses, are used to discover the potential antiviral treatment of human pathogen coronavirus. Lopinavir/Ritonavir, Nucleoside analogues, Neuraminidase inhibitors, Remdesivir, peptide (EK1), abidol, RNA synthesis inhibitors (such as TDF, 3TC), anti-inflammatory drugs (such as hormones and other molecules), Chinese traditional medicine, such as Shufangji/Du Capsules and Lianhuangqingwen Capsule, could be the drug treatment options for 2019-nCoV. However, the efficacy and safety of these drugs for 2019-nCoV still need to be further confirmed by clinical experiments.

Keywords: 2019-nCoV; Coronaviruses; pneumonia.

Similar articles

[Potential antiviral therapeutics for 2019 Novel Coronavirus].

Clinical characteristics and therapeutic procedure for four cases with 2019 novel coronavirus pneumonia receiving combined Chinese and Western medicine treatment.

Finding Full Text
Finding full text – click

Find It links a citation to the full text, if the Library subscribes to it.
Other off-campus options
http://guides.lib.uchicago.edu/off-campus

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Tips for using online resources when you're away from campus

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Learn more about our online services.

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- Proxy & Off-Campus Access
- Ask a Librarian via Email or Chat
- Changes to Access, Due Dates & Fines
- Suggest a Purchase

About Access to Electronic Resources

Access Library Resources off Campus

Access Electronic Library Resources Off Campus
Poll: What is your experience using reference managers?
Zotero is a reference manager that facilitates collecting and organizing references.
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Item Type: Journal Article
Title: A Case Study: Using Social Tagging to Engage Students in Learning Medical Subject Headings
Author: Maggio, L., Bresnahan, F., Flynn, D., Harzech, J., Blanchard, J., Ginn, D.
Abstract: In exploring new w...
Publication: Journal of the Medical Library Association (JMLA)
Volume: 97
Issue: 2
Pages: 77-83
Date: 2009
Series:
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<td>Author: Ginn, David</td>
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Zotero Connector

Connects your browser to Zotero

- Install Chrome Connector
- Install Firefox Connector
Set Up Online Sync

1. Go to Zotero.org
2. Click ‘Log In’ in upper right
3. Click ‘Register’ in upper right
4. Create your account
5. Verify your account
Set Up Online Sync (continued)

6. Open Zotero (desktop app)

7. Go to Preferences:
   - **Windows**
   - **Mac**
Set Up Online Sync (continued)

8. Set Sync preferences

![Zotero Preferences window](image.png)

Settings:
- Username
- Password

Options:
- Create Account
- Lost Password?
- About Syncing

Set Up Syncing button
Save Citations

Zotero icon appears in browser location bar

Click icon to save citations to Zotero

Firefox

Chrome

Safari
Select which items you'd like to add to your library:

- Limits of search filter development.
- Redesigning printed educational materials for primary care physicians: design improvements increase usability.
- Empirical relationships between numeracy and treatment decision making: A scoping review of the literature.
- A scoping review of classification schemes of interventions to promote and integrate evidence into practice in health systems.
- Towards a common terminology: a simplified framework of interventions to promote and integrate evidence into practice in health systems.
- Net improvement of correct answers to therapy questions after pubmed searches: pre/post comparison.
- Development of two shortened systematic review formats for clinicians.
- Sustainability of knowledge translation interventions in healthcare decision-making: protocol for a scoping review.
- WhatIsKT wiki: a case study of a platform for knowledge translation terms and definitions--descriptive analysis.
- MEDLINE clinical queries are robust when searching in recent publishing years.
- Correction: Development and validation of filters for the retrieval of studies of clinical examination from medline.
- Glomerular disease search filters for Pubmed, Ovid Medline, and Embase: a development and validation study.
- Search filters can find some but not all knowledge translation articles in MEDLINE: an analytic survey.
- How well are journal and clinical article characteristics associated with the journal impact factor? a retrospective cohort study.

Select All  Deselect All  Cancel  OK
Save Multiple Pages from PubMed

Select “Send to”

Select “Citation Manager”

Click “Create File” button

In Zotero, Import file
Drag & Drop PDFs
Zotero with Word – Windows

Zotero ribbon in Word installed with Zotero installation

Add citations and bibliographies to papers
Zotero with Word – Mac

View > Toolbars > Zotero
Create a standalone bibliography

Right-Click > Create Bibliography from Items
Create a standalone bibliography

Choose a citation style: Vancouver

Output Mode: Bibliography

Output Method: Save as RTF (for best results)
Do More with Zotero

Folders – organize your library

Duplicates – find & reconcile duplicate citations

Notes – take research notes in Zotero

Groups – share citations with collaborators
Learn More & Get Help

Zotero Guide: guides.lib.uchicago.edu/zotero
- Email your questions or schedule a consultation

Zotero.org
- Quick Start Guide
- Screencast tutorials
- Discussion forums

Citation Manager Team

Contact us
Questions?