

Swiss Tropical and Public Health Institute Schweizerisches Tropen- und Public Health-Institut Institut Tropical et de Santé Publique Suisse

Associated Institute of the University of Basel



Basics in literature searching: PubMed & other resources

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Swiss TPH Library, HS 2021

Quiz

Use the link or QR code

https://app.klicker.uzh.ch/join/spo OR



Overview

- Just start ...
- Documentation
- Aims
- Question (with exercises)
- Resources where do I find what?
- Boolean Operators (with exercises)
- Google Scholar
- PubMed: Free-text searching (with exercises)
- Precision and sensitivity
- Critical Appraisal





Just start ...

- You have an idea or a rough topic? Start with a non-specific search to get acquainted with your topic.
 For example on Google or UpToDate
- Refine your question continuously
- Search for systematic reviews? (info in the appendix)
 - → Is the topic already covered or even relevant? What search strategies are used in topic-related reviews? Which terms are used by pertinent articles in the title or abstract?
- Build up a database search and adjust it continuously (slides follow)
- Document it!



Robert Cudmore, https://flic.kr/p/m9TC

Documentation

What to document?

- Where did you search
- Search terms
- number of hits
- Date

How? For example

- In Word, Excel or the like: copy/paste your search
- Directly in the search interface: account needed

Further documentation: while screening the hits:

- Note thoughts, associations or ideas
- Author/Title/Year, what is it about, for what can I use it
- → Here in addition to Word or Excel possibly also Endnote

NEW PubMed

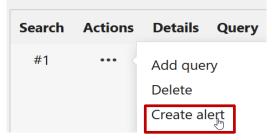
Search 1, 12.03.2020: 858 hits resp. 733 hits with date field (orange)

"severe acute respiratory syndrome coronavirus 2" [Supplementary Concept] OR "COVID-19" [Supplementary Concept] OR (wuhan[tiab] AND coronavirus[tiab]) OR (wuhan[tiab] AND pneumonia virus[tiab]) OR COVID19[tiab] OR COVID-19[tiab] OR coronavirus 2019[tiab] OR SARS-CoV-2[tiab] OR SARS-2[tiab] OR "severe acute respiratory syndrome 2"[tiab] OR 2019-nCoV[tiab] OR (novel coronavirus[tiab] AND 2019[tiab]) NOT (animals[mesh] NOT humans[mesh]) AND ("2019/12/01"[EDAT]: "3000/12/31"[EDAT])

Search 2, 12.03.2020: 805 hits; like above but more sensitive (first line in orange)

corona[tj] OR covid*[tj] OR sars[tj] OR severe acute respiratory syndrome[tj] OR ncov*[tj] OR "severe acute respiratory syndrome coronavirus 2" [Supplementary Concept] OR "COVID-19" [Supplementary Concept] OR (wuhan[tjab] AND coronavirus[tjab]) OR (wuhan[tjab] AND pneumonia virus[tjab]) OR COVID19[tjab] OR COVID-19[tjab] OR coronavirus 2019[tjab] OR SARS-CoV-2[tjab] OR SARS2[tjab] OR SARS-2[tjab] OR "severe acute respiratory syndrome 2"[tjab] OR 2019-nCoV[tjab] OR (novel coronavirus[tjab] AND 2019[tjab]) NOT (animals[mesh] NOT humans[mesh]) AND ("2019/12/01"[EDAT] : "3000/12/31"[EDAT])

History and Search Details



Documentation: reference management software



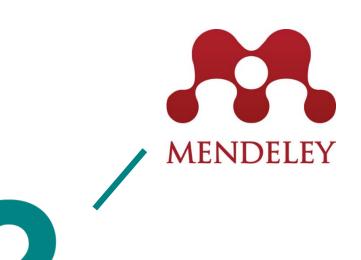
Swiss TPH supports only EndNote, which can be installed free of charge on all Swiss TPH Computers.

→ Swiss TPH Library offers support on EndNote for staff members

The University Medical Library offers courses:

https://fortbildung.unibas.ch/courses/organizer/university-library-30/1







Aims: where do you want to go? – what will you learn today?

	Daily hospital routine	Literature search, master thesis	Systematic Review	
Require ment	Fast, find specific answers	extensive, well built/solid background research	Reproducible, systematic and sensitive search	
Ex. Resourc es	UpToDatePubMed ClinicalQueries	Google ScholarPubMed/EmbaseWeb of Science/Scopus	 PubMed/Embase/Cochrane Library Web of Science/Scopus Grey Literature Complementing search methods 	
Ex. Search input PubMed	Heart failure Spironolactone Mortality	Heart failure AND Spironolactone AND (Mortality OR Death) VS	(Heart failure[tiab] OR Cardiac Failure[tiab] OM Myocardial Failure[tiab] OR Heart Decompensation[tiab] OR "Heart Failure"[Mesh]) AND (Spironolactone[tiab] ON Tailure"[Mesh])	
	ay's topic	(Heart failure[tiab] OR Cardiac Failure[tiab] OR Heart Decompensation[tiab] OR "Heart Failure"[Mesh]) AND (Spironolactone[tiab] OR Aldactone[tiab] OR	Aldactone[tiab] OR "Science alists" AND Let information specialists OR of advise you	
Advar	nced course topic	"Spironolactone"[Mesh]) AND (mortality[tiab] OR death[tiab] OR died[tiab] OR "Mortality"[Mesh])		

Question: clinical vs. scientific question

Clinical Questions

Directly relevant to the identified problem

- e.g. your individual patients and their problems:
 Treatment plan for Mrs. Müller, 88 years old, single, diabetic with tear of posterior horn inner meniscus right knee; patient wants to be able to garden again
- ➤ In evidence-based medicine, an answerable, precisely structured question is essential to facilitate the **search for an answer**.

Scientific Question

Not always directly relevant to the identified problem

e.g. a study population with certain characteristics:
 Arthroscopic partial meniscus resection vs. physiotherapy for adults with meniscus tear; pain ↓, quality of life (QoL) ↑

Formulating the question precisely with PICO

What characteristics does your patient have? Which must also be present in the study population?				
Patient	What demographic characteristics such as age, gender and ethnicity does the patient have? Or what kind of problems are there?			
Intervention	What kind of intervention is being considered? For example, is it a type of medication, exercise or passive measures?			
Control/ Comparison	Is there a control treatment that should be considered? The comparison may be with another drug, another form of treatment, such as exercise, or no treatment at all.			
Outcome	What would be the desired effect you would like to see? Which effects are not desired? Are there any side effects with this form of testing or treatment?			

Example for a PICO question

Population: Adults with meniscus tear

Intervention: physiotherapy

Control: Arthroscopic partial meniscus resection

Outcome: Pain ↓, QoL ↑



PICO question: In adult patients with a meniscus tear, is physiotherapy or arthroscopic partial meniscus resection better to reduce pain and increase quality of life?

→ In addition to PICO there are other systems depending on the context/setting, e.g. PECO, SPIDER, SPICE, CLIP, ECLIPSE, ... https://libguides.city.ac.uk/c.php?g=663952&p=4696473

Formulating the question precisely with PE(C)O

	Think about
Population	Who is the question focused on?
Exposure	What has the population been exposed to?
(Comparison /Control)	(No exposure or different levels of exposure?)
Outcome	What, in relation to the exposure, is being examined?

Example for a PE(C)O Question

Population: Teenager

Exposure: advertising tobacco products

(Control: no advertising)

Outcome: smoking prevalence ↑



PE(C)O question:

Does advertising tobacco products increase smoking prevalence in teenagers?

Determine possible PICO or PECO questions for these situations: Exercise 1



- 1. A friend of yours has severe asthma. After lunch with him you see an advertisement about the Hochgebirgsklinik Davos, a clinical rehabilitation center for diseases of the respiratory system situated in the mountains in Switzerland. You are wondering if a stay in a mountain climate might indeed reduce the asthmatic attacks of your friend.
- 2. After the newspaper "20 Minuten" reported on the difficulties of obese children in Bettingen, the municipality contacts you. They would like to reduce the risk of the children developing diabetes mellitus and ask what is better: increase recreational activities in the community or introduce educational programs for lifestyle changes.
- 3. Accurate and fast diagnosis of malaria is essential for the initiation of proper treatment. New molecular diagnostic based on PCR are available and you would like to know if they are more accurate than the currently used rapid diagnostic tests (RDTs).
- 4. Your neighbour, a healthy older woman, broke her hip. She does not want to have surgery. You get along very well and are concerned about her risk of dying within a year.
- 5. You have a heated discussion with a sound engineer at a concert about the adherence to the 80dB threshold. He arguments that 5dB more or less is just nit-picking. You wonder if that is true.

PICO Exercise 1: Possible solutions



	Р	I/E	С	0
1. Therapy	For adults with severe asthma, does	a stay in a mountain climate		reduce asthmatic attacks?
2. Prevention	For overweight children, does	an increase in community recreation	compared to educational programs	result in a reduced risk of diabetes mellitus?
3. Diagnosis	In patients with malaria	are molecular diagnostics based on PCR	or rapid diagnostic tests (RDTs)	more accurate in making a diagnosis?
4. Prognosis	In healthy older women with hip fracture,	who do not undergo surgery		what is the risk of mortality after one year?
5. Aetiology	Among concertgoer, what is the effect of	exposure to <80 dB	compared to ≥80 dB	on hearing impairment?

Resources – where do I find what?

- Clinical knowledge portals → Basic knowledge and more
- Library catalogues → Monographs, dissertations
- **Electronic databases** → mainly journal articles
- Study register → completed/ongoing trials
- Internet/Webpages → grey and other literature



Resources: Clinical knowledge portals UpToDate & AMBOSS

UpToDate

- Fee-based database (license for local use in the University Medical Library and University Hospital Basel, no VPN access)
- Material prepared by experts for everyday clinical use (medical, peer-reviewed "Wiki")
- Patient information

AMBOSS

- Reference work & learning program (basic campus license at the University of Basel)
- Knowledge app (mobile & offline)
- Guidelines-compliant and cross-disciplinary

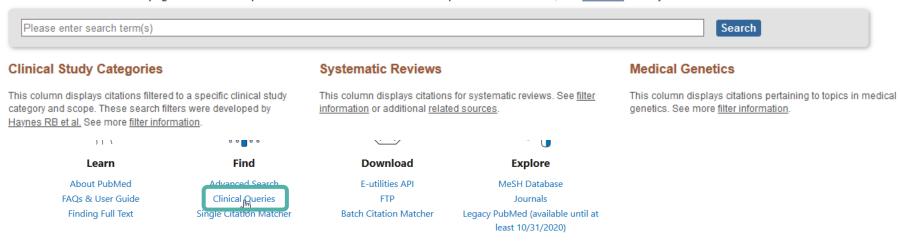


PubMed Clinical Queries

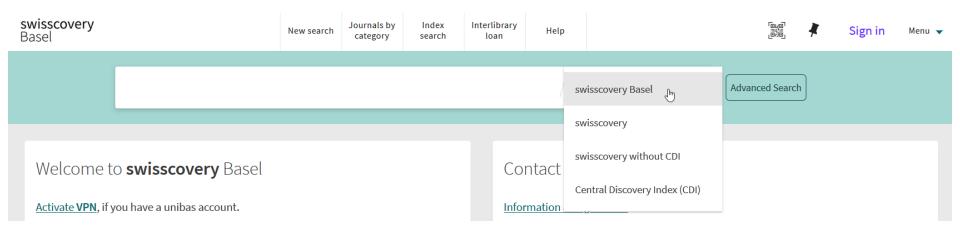


PubMed Clinical Queries

Results of searches on this page are limited to specific clinical research areas. For comprehensive searches, use PubMed directly.



Resources: Library catalogues swisscovery



https://slsp-ubs.primo.exlibrisgroup.com/discovery/search?vid=41SLSP_UBS:live&lang=en

- swisscovery Basel: Holdings of the <u>Basel library network</u>
- Swisscovery: Holdings of the <u>Swiss</u> library network
 - Inventory of most scientific libraries in Switzerland
- especially relevant for books/e-books and dissertations

Resources: electronic databases

https://ub.unibas.ch/en/locations/university-medical-library/



Electronic resources

PubMed

- > Medline via PubMed
- > Medline via OVID

Embase

Focus on pharmaceutical research

- > Embase via Elsevier
- > Embase via OVID

> Cochrane-Library

EBM literature database
Also available for the > layperson

> Cinahl

Focus on nursing and other healthcare professions

> UpToDate

"Point-of-Care" database for evidence-based medicine in the clinic.

Access available only through the computer network in the medical library and the University Hospital Basel. VPN access from the university's network is not possible.

> AMBOSS

Learning programme and reference work for medical students.

> Journal Citation Reports InCites

To search for impact factors and journal rankings

> Web of Science (WoS)

Multi-disciplinary, natural sciences literature database

> Library catalogue / E-books

For viewing e-books, filter the results with "Uni Basel -Online" at the top right

> VISE Virtual Course reserves

For semester literature (print and e-books) recommended by lecturers

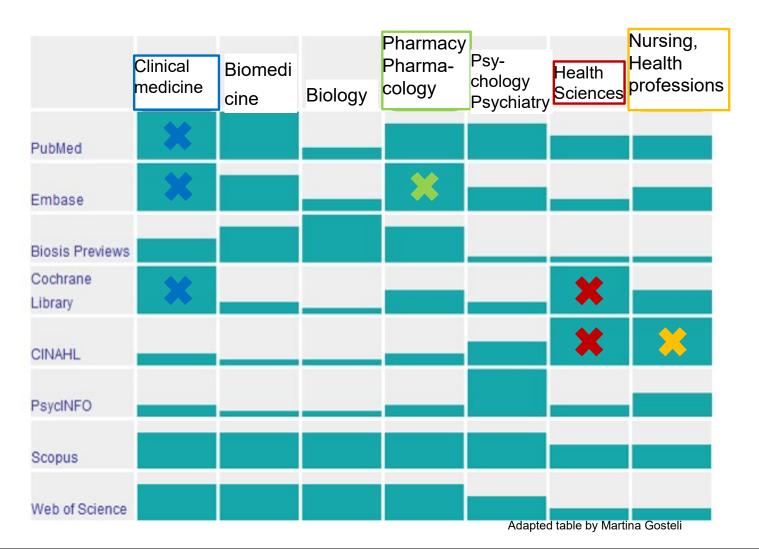
> Further databases

Licenced access within the network of the university and the University Hospital Basel

> E-journals

Licenced access within the network of the university and the University Hospital Basel

Resources: electronic databases



Resources: Study registers

- Trials usually have to be registered. Many countries have their own registers, https://en.wikipedia.org/wiki/List_of_clinical_trial_registries
- References to planned, ongoing and completed studies. Partly not (yet) published study results
- Mostly independent databases, similar features and functions as specialist databases

The best known are probably:

- WHO International Clinical Trials Registry Platform (international)
- ClinicalTrials.gov (USA)
- EudraCT (Europe)



Shots for all

https://www.dvidshub.net/image/1836493

Resources: Internet/Webpages

- Especially relevant for background and grey literature
- Make the right choice with Internet sources! Critically assess the quality & authenticity of the information.
- Important questions that arise for the evaluation of Internet sites:

O WHO is the publisher of the website?



- O WHY is the website offered?
- O HOW is the website designed?

WHO is the publisher of the website?

- Is the publisher known? Is it a reputable institution?
- If the publisher is not directly visible look for information in the imprint or in "About us"

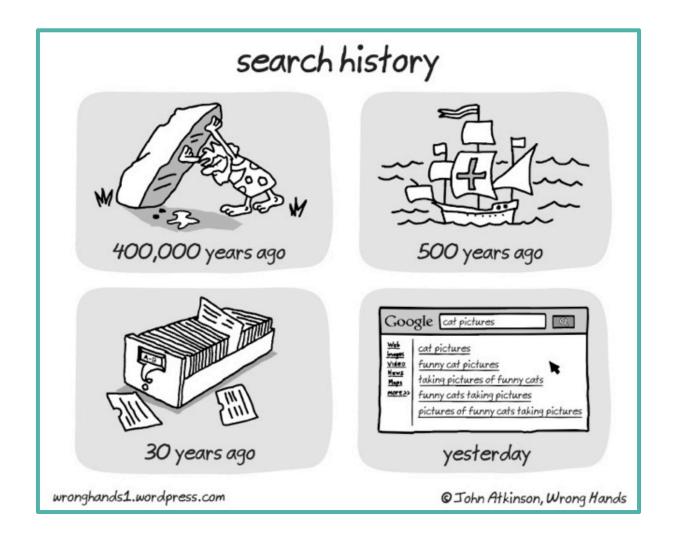
WHY is the website offered?

- Is there an educational mandate, e.g. by a state or cantonal institution (research institute, university institution, office, authority etc.)?
- Are these advertising messages from providers with commercial, political or religious interests?

HOW is the website designed?

- Professional, up-to-date, well maintained: Contents with serious and complete bibliography & further links?
- Styled for high gloss advertising purposes visible?
- Private providers, "offender by conviction"? → partly "simply knitted", not always up to date, no or only few serious literature references

Okay, but how do I search?



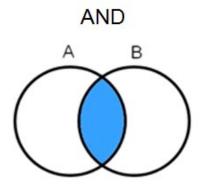
Boolean operators

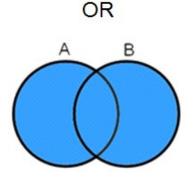
AND = both search terms occur

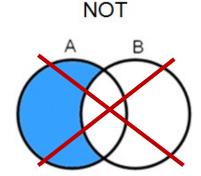
OR = at least one of the two search terms occurs

NOT = without this search term

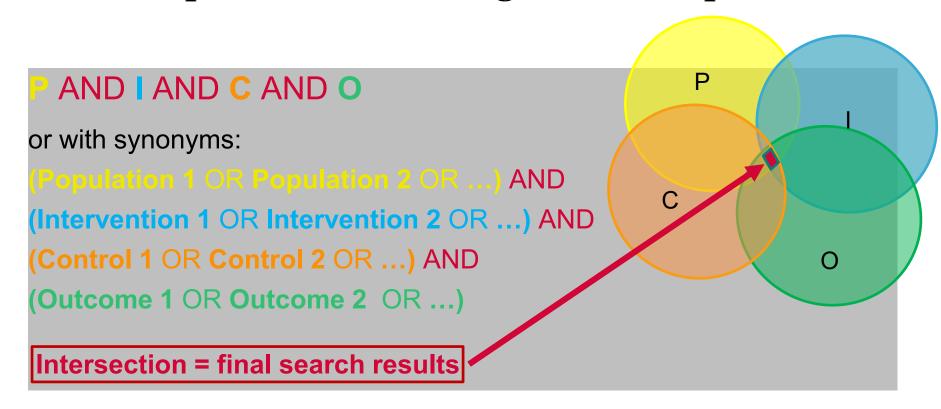
Attention: 'NOT' usually leads to unwanted exclusions. Best to contact an information specialist







Boolean operators: Combining the PICO aspects



Note: Not all aspects of the PICO question need to be included in a search

- → initially only search for a few and clearly describable aspects (e.g. drugs)
- → Outcomes often not mentioned in the abstract. Therefore omit them if possible.

PECO: unlike in PICO, the outcome is almost always used in the search terms with the PE(C)O framework.

Boolean operators: Exercise 2



1	Coronavirus
2	Covid19
3	Severe acute respiratory syndrome
4	Mask
5	N95
6	Infection rate

Task:

Combine the 6 partial searches with the Boolean operators

AND plus **OR**, put **brackets** where appropriate

e.g. 1 AND (2 OR 3) OR 4 ...

Boolean operators: Exercise 2 – Solution



1	Coronavirus
2	Covid19
3	Severe acute respiratory syndrome
4	Mask
5	N95
6	Infection rate

Solution:

(1 OR 2 OR 3) AND (4 OR 5) AND 6

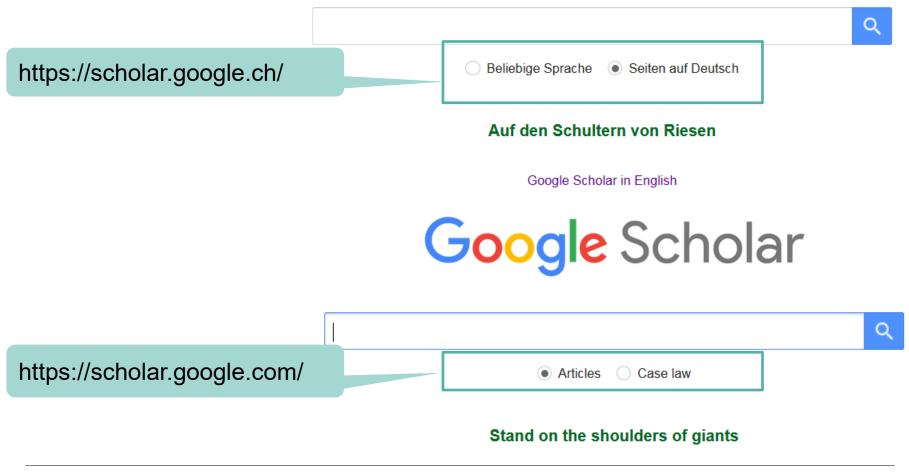
Coronavirus

Mask

Infection rate

Google Scholar

Google Scholar



Google Scholar: Advantages

Suitable for fast, simple searches

- Freely accessible, simple search
- Large amount of scientific data
- Includes various document types such as journals and conference proceedings, reports, patents, etc.
- Searches full texts, e.g. method section
- Link to articles that cite a specific article ("Cited by")
- "Cited by" option also searches citations in books
- Scientific literature partly freely accessible and library links to licensed full text:
 Get fulltext Uni Basel

Google Scholar: Disadvantages

Less suitable for systematic and reproducible searches

- Search algorithms not comprehensible, searches only conditionally reproducible
- Only 1000 results visible
- Only one reference exportable at a time
- No advanced search, few filters
- Boolean operators incorrect (https://www.ncbi.nlm.nih.gov/pubmed/27076802)
- Author, title and journal search functions do not work properly (missing metadata, wrong field recognition)
- Too many hits and relevance not reliable

PubMed

- Public access to Medline database
- Most comprehensive medical search interface
- Fundamental redesign in 2020 (New PubMed)
- Publisher: US National Library of Medicine (NLM)
- Daily updates
- Annually ~1 Mio new citations
- Search in full text not possible! (abstracts freely accessible)



PubMed: Useful Links

PubMed access via Uni Basel

https://pubmed.ncbi.nlm.nih.gov/?otool=unibaslib

PubMed® Online Training:

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

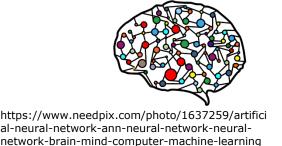
Youtube Tutorials

https://www.youtube.com/watch?v=uyF8uQY9wys&list=PL7dF9e2 gSW0YkmxDTsUG6p4hJjYOPT0Uj

Training courses at the University Library

https://fortbildung.unibas.ch/courses/organizer/university-library-30/1

PubMed: Free-text search



Intelligent search engine:

PubMed is capable of intelligent implementation of a "simple search query" (= free-text search); (= automatic term mapping → details in the advanced course!)

The search terms are matched against a Subject translation table (for example **MeSH** → details in the advanced course!) and different spellings are taken into account (e.g. singular/plural, American/British English).

e.g.: massage exercise → also looks for other spellings
 massage OR massages OR massaged,
 exercise OR exercises OR exercised OR exercising

You can enter one term for each aspect of the PICO question.

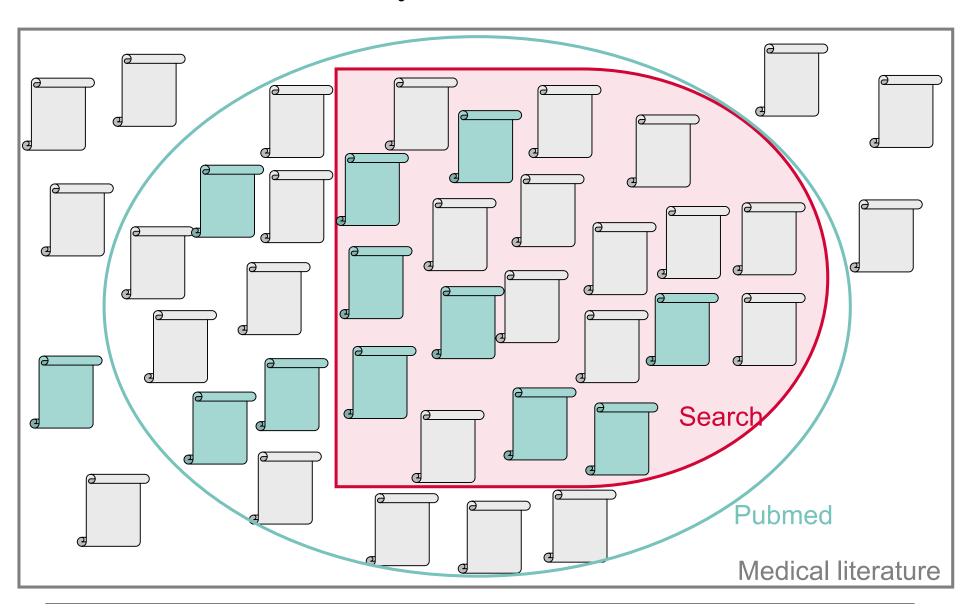
Without Boolean operators, "AND" is assumed between the words

PubMed Live! What do I find where?

Live demonstration in the course

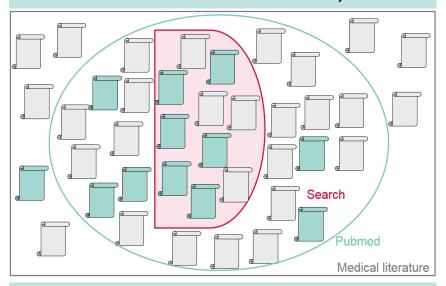
Documented by screenshots in the handout (appendix)

Precision vs. sensitivity



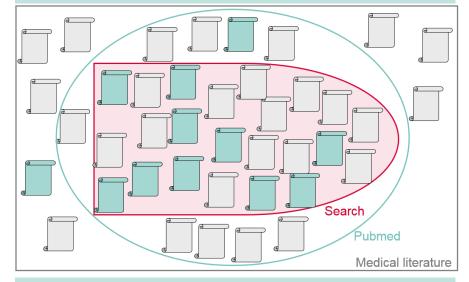
Precision vs. sensitivity

Precision: specific, narrow; few hits (only a few of the relevant hits found but little noise)



e.g. for daily hospital routine, master thesis?

Sensitivity: complete, broad; many hits (almost all of the relevant hits found but among lots of noise)



e.g. for Systematic Reviews, Health Technology Assessments, ...

→ Try different strategies and observe how this changes the results

Precision vs. sensitivity

Precision (fewer hits)	VS	Sensitivity (more hits)	
Precise terms (e.g. diabetes mellitus type 2; pain reduction)		General terms (e.g. Diabetes; pain)	
Targeted, no (or few) synonyms and word variations		More synonyms and word variations per search block	
Set filters		Do not set filters	
Combine more PICO aspects with AND, e.g.		Combine fewer PICO aspects with AND, e.g.	
P AND I AND C AND O		P AND I P AND I AND C I AND C	

Free-text search in PubMed: Exercise 3a



In adult patients with a meniscus tear, is physiotherapy or arthroscopic partial meniscus resection better to reduce pain and increase quality of life?

Search, PubMed, 12.10.2021	Hits
Meniscus tear physiotherapy Arthroscopic meniscal resection Pain reduction Quality of life	0
Meniscus tear physiotherapy Arthroscopic meniscal resection Pain	36
Meniscus tear physiotherapy Arthroscopic meniscal resection Pain Filters: Systematic Reviews	7

Free-text search in PubMed: Exercise 3b



Does advertising tobacco products increase smoking prevalence in teenager?

Search, PubMed, 12.10.2021	
teenager advertising tobacco products increase smoking prevalence	121
teenager advertising tobacco products increase smoking prevalence Filters: Systematic Reviews	1
teenager advertising tobacco smoking prevalence	762
teenager advertising tobacco smoking prevalence Filters: Systematic Reviews	6

Free-text search in PubMed: Exercise 3a Solution

In adult patients with a meniscus tear, is physiotherapy or arthroscopic partial meniscus resection better to reduce pain and increase quality of life?

Search, PubMed, 12.10.2021	Hits
Meniscus tear physiotherapy Arthroscopic meniscal resection Pain reduction Quality of life	0
Meniscus tear physiotherapy Arthroscopic meniscal resection Pain	36
Meniscus tear physiotherapy Arthroscopic meniscal resection Pain Filters: Systematic Reviews	7

(Meniscus tear OR Meniscal tear) AND (physiotherapy OR Physical	53
therapy OR Manual therapy OR Exercise therapy OR Non-surgical	
intervention) AND (Arthroscopic meniscal resection OR Arthroscopic	
partial meniscectomy) AND Pain	
Filters: Systematic Reviews	9

Free-text search in PubMed: Exercise 3b Solution

Does advertising tobacco products increase smoking prevalence in teenager?

Search, PubMed, 12.10.2021	Hits
teenager advertising tobacco products increase smoking prevalence	121
teenager advertising tobacco products increase smoking prevalence Filters: Systematic Reviews	1
teenager advertising tobacco smoking prevalence	762
teenager advertising tobacco smoking prevalence Filters: Systematic Reviews	6

(teenager OR adolescent OR teen) AND (advertising OR promoting) AND (tobacco OR cigarettes) AND (smoking prevalence OR smoking		
habit OR smoking susceptibility)	4452	ı
Filters: Systematic Review	45	ı
Filters: Systematic Review and 5 years	17	ĺ

Critical Appraisal

Essential for any kind of literature review (e.g. master thesis) or if you want to apply study results (e.g. on patients)

Are the results valid

(Objectives clearly described? Adequate methods? Selection of study participants?)

trustworthy

(Bias? Results clearly described and precise? Appropriate data analysis?)

and relevant?

(Were all relevant outcomes measured? Can the results be transferred to other settings? Is the study population comparable to the patient in practice?)

- Short, simple introduction: https://youtu.be/ikuVmCtBvF0
- Overview of different tools: https://guides.temple.edu/systematicreviews/criticalappraisal
- Understanding the numbers: https://youtu.be/3ZYSyZyqxjE

Quiz

Use the link or QR code

https://app.klicker.uzh.ch/join/spo OR



Take Home Messages

- Just start!
- Document
- Boolean combinations with AND and OR require brackets
- In addition to : clinical knowledge portals and internet sources,
 PubMed is the most comprehensive medical search interface
- Critically appraise results
- take time for the first steps
 then it will go faster later



https://catalog.archives.gov/id/535413

Please fill out the survey



https://k11331.evasys.de/evasys/online.php?p=D5KEQ





Thank you for your attention!

Contact:

Jacqueline Huber, jacqueline.huber@swisstph.ch

Further information:

- Swiss TPH library offers free advice and support for its members on literature searching and using EndNote. We also offer a document delivery service. Contact: library@swisstph.ch
- The University Medical library also offers support: https://ub.unibas.ch/en/locations/university-medical-library/

Overview Handout Appendix (for your information)

- Review types
- PubMed: What do I find where?
- From database to full text: Access via VPN and swisscovery
- Ordering of not accessible PDFs
- Export of references
- Reference management software: Frequently used programs
- PubMed: My NCBI Account

Systematic Reviews

⇒ Umbrella term for systematic, quality-assessed, synthesis of study results on a research question

Individual steps of a Systematic Review:

- Defining a scientific question
- Set inclusion/exclusion criteria
- Search for studies / evidence
- Select studies / evidence and extract data
- Assess the risk of bias of included studies
- Synthesis of the results, meta-analysis
- Interpret results and draw conclusions

Cochrane reviews are systematic reviews that follow the methodology given in the **Cochrane Handbook**. (https://training.cochrane.org/handbook/current)

Scoping Reviews

- ⇒ Usually answer broader questions than classic systematic reviews
 - → often asked in Public Health
- ⇒ No risk of bias assessment.

Indications for a Scoping Review:

- As a precursor to a systematic review.
- To identify and analyze knowledge gaps.
- To identify the types of available evidence in a given field.
- To clarify key concepts/ definitions in the literature.
- To examine how research is conducted on a certain topic or field.
- To identify key characteristics or factors related to a concept.

Further guidance and other review types:

Joanna Briggs Institute Manual for Evidence Synthesis:
 https://jbi-global-wiki.refined.site/space/MANUAL

From: Munn et al. (2018) 'Systematic review or scoping review? Guidance for authors when choosing between a systematic or scoping review approach', BMC Med Res Methodol, vol. 18, no. 1, pp. 143.

Narrative Review and other review types

⇒ Describes and appraises previous work but does not describe specific methods by which the reviewed studies were identified, selected and evaluated

Indications for a Narrative Review:

- As part of background or discussion section
- To use as rationale for new research

Limitations:

- Underlying assumptions and agenda often unknown
- High risk for bias in selecting and assessing the literature
- Cannot be replicated

Other review types:

- Temple University Lib Guide:
 https://guides.temple.edu/c.php?g=78618&p=4156607
- Sutton et al. (2019) 'Meeting the review family: exploring review types and associated information retrieval requirements'. doi:10.1111/hir.12276

Find Reviews e.g. via:

PubMed: with corresponding article type filter

ARTICLE TYPE ☐ Books and Documents ☐ Clinical Trial ☐ Meta-Analysis ☐ Randomized Controlled Trial ☐ Review ✓ Systematic Reviews

Epistemonikos:



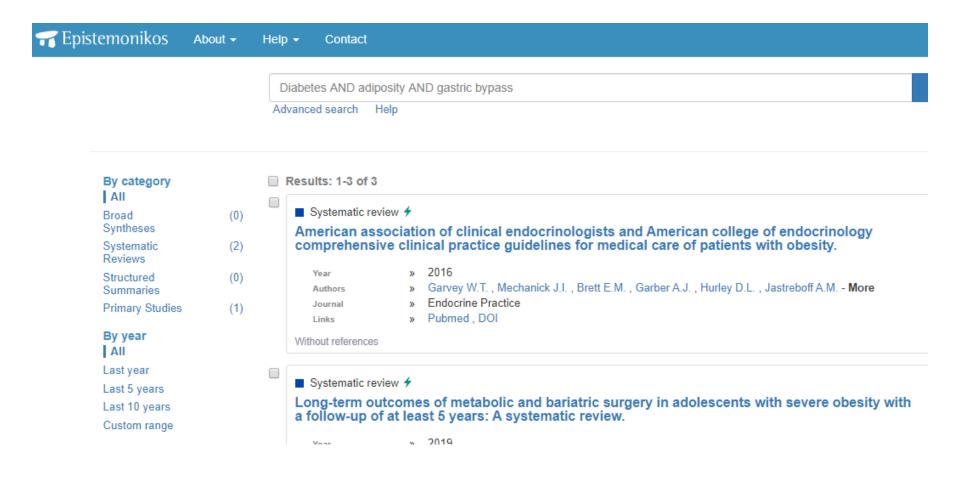
- Free access
- Systematic reviews and other evidence synthesis
- Meta search engine accessing other databases
- https://www.epistemonikos.org/

Cochrane Library:

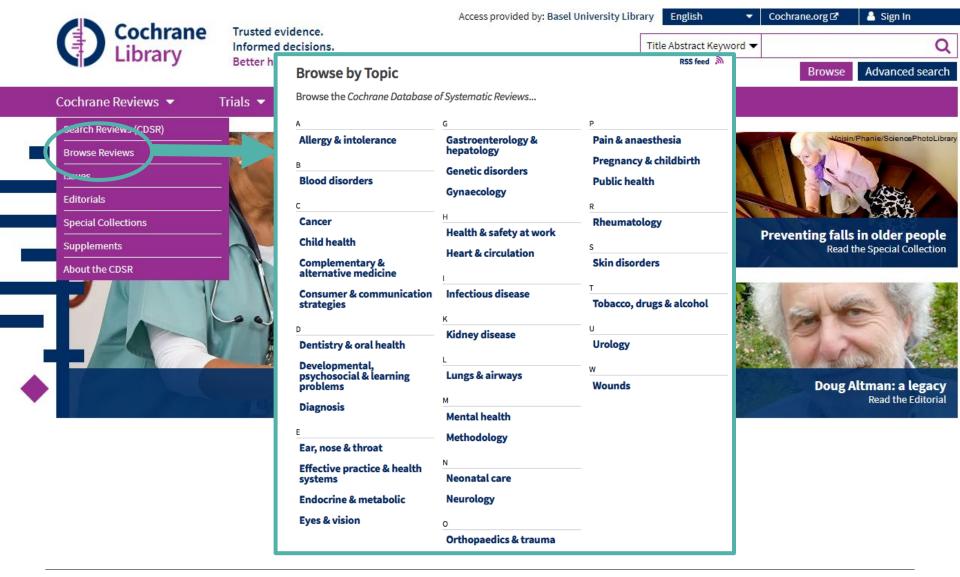


- Access with license (Switzerland has a national license)
- Cochrane Reviews
- Browsing by topic possible
- https://www.cochranelibrary.com/

Find Reviews: Epistemonikos



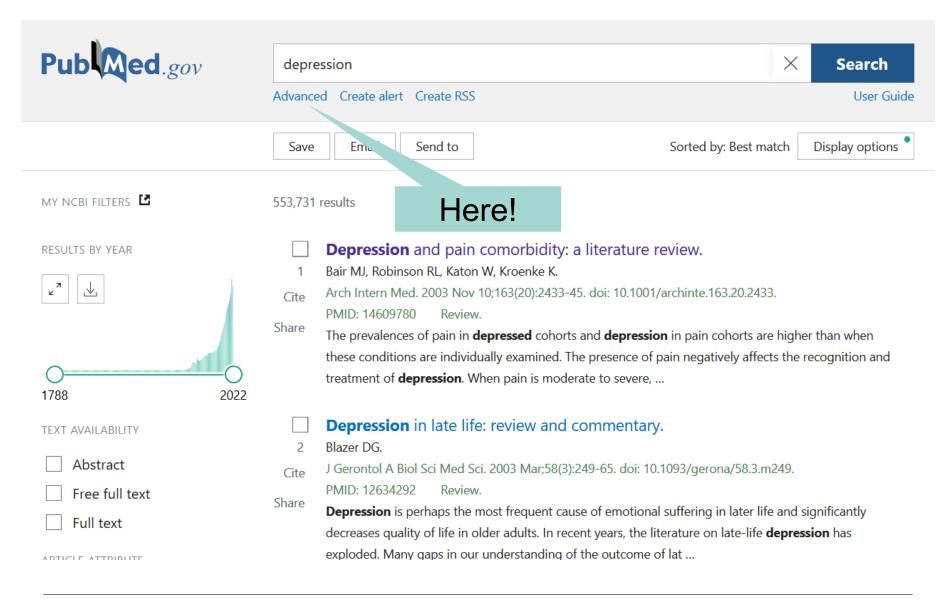
Systematic Reviews: Cochrane Library



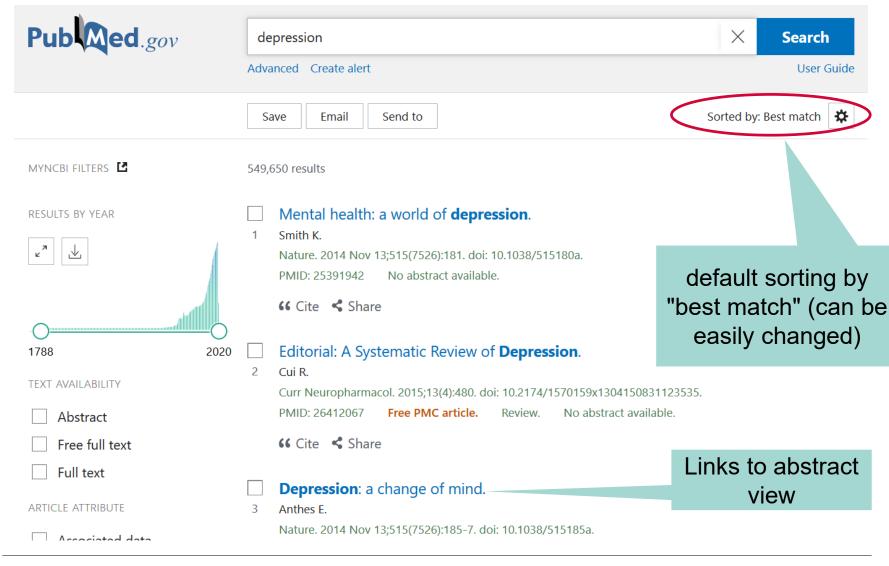
PubMed: What do I find where?



Access to the Advanced Interface



Presentation of the results



Abstract View

Links to full text

Comparative Study > Int J Psychiatry Clin Pract. 2017 Nov;21(4):314-317.

doi: 10.1080/13651501.2017.1324036. Epub 2017 May 15.

Comparison of depression symptoms between primary depression and secondary-to-schizophrenia

Direct link to the previous (or next) abstract

she Rashid ²

OI: 10.1080/13651501.2017.1324036

Links to all fields in the view

Abstract

Objectives: This study exclusively aimed to clinically assess which symptom pattern discrimance. primary depression from depression-secondary to-schizophrenia.

Methods: A total of 98 patients with primary depression and 71 patients with secondary-toschizophrenia depression were assessed for identifying the clinical phenomena of depression. Diagnosis of schizophrenia was confirmed by Mini International Neuropsychiatric Interview. Each participant was, however, assessed by Patient Health Questionnaire-9 as well as Calgary Depression Scale for Schizophrenia (CDSS) for possible concurrent depressive symptoms

Results: Depressed mood, loss of interest, r in primary depression, whereas sleep distur

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towards the diagnosis of depression secondary-to-scrizophrenia.

Conclusions: It is clinically hard to differentiate primary from secondary-to-schizophrenia depression, especially in the absence of obvious psychotic symptoms. However, the classical symptoms of depression like subjective depressed mood, anhedonia, reduced energy and pathological guilt are more prominent in the primary depression.

Keywords: Depression; common symptoms; schizophrenia.

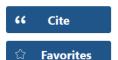
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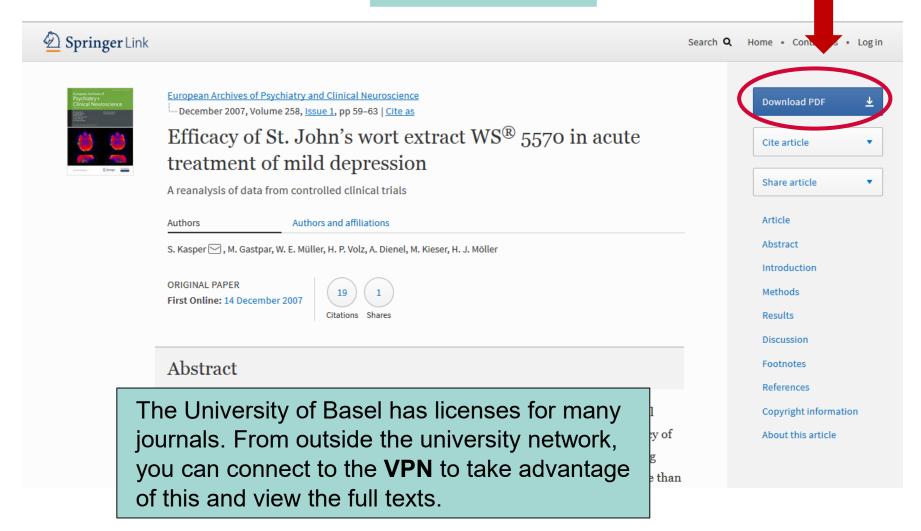




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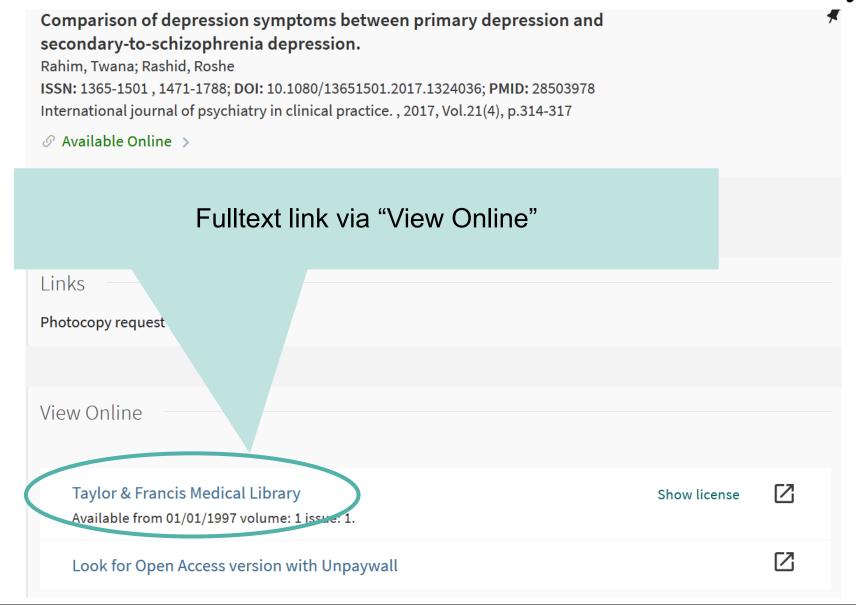
Results: Depressed mood, loss of interest, reduced energy and pathological guilt were more common in primary depression, whereas sleep disturbance and guilty ideas of reference were more amounting towards the diagnosis of depression secondary-to-schizophrenia.

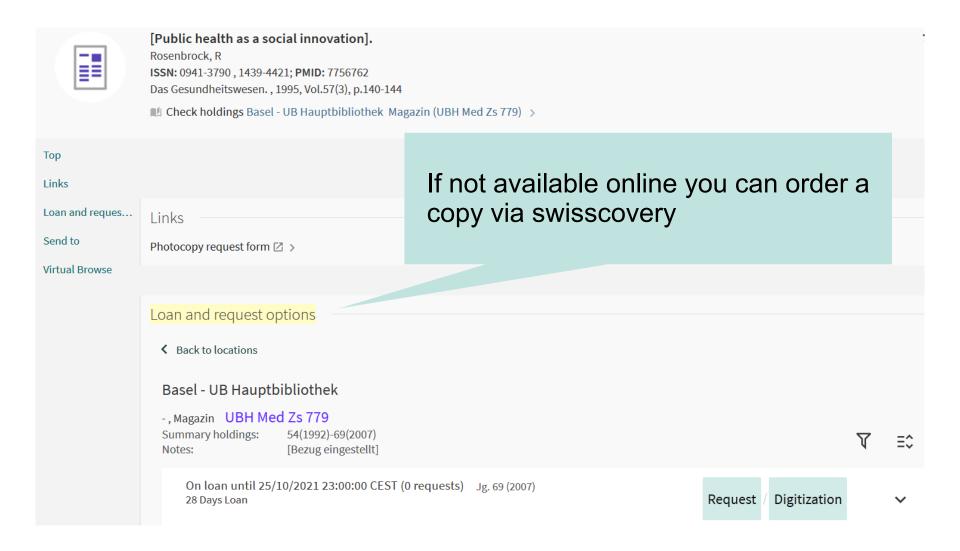
Conclusions: It is clinically hard to differentiate primary from secondary-to-schizophrenia depression, especially in the absence of obvious psychotic symptoms. However, the classical symptoms of depression like subjective depressed mood, anhedonia, reduced energy and pathological guilt are more prominent in the primary depression.

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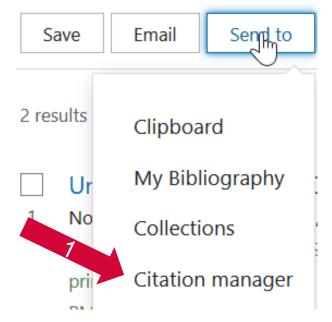
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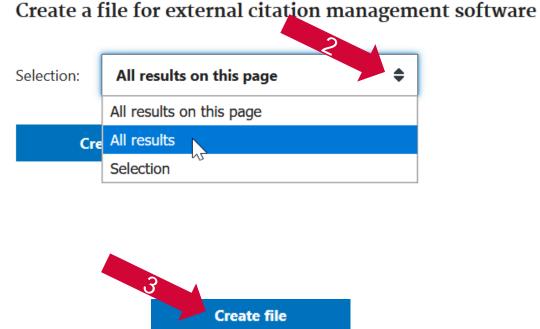
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