

How to find literature

Specialist course in palliative medicine.

Katrine Aronsen, NTNU Medicine and health library 2019

Research



Experience



Evidence-based medicine

Patient



i've heard the rhetoric from both sides... time to do my own research on the real truth



Google

Found 80,000 results.

Literally the first link that agrees with what you already believe

Completely supports your viewpoint without challenging it in any way

Another link

Don't worry about this one

...jackpot



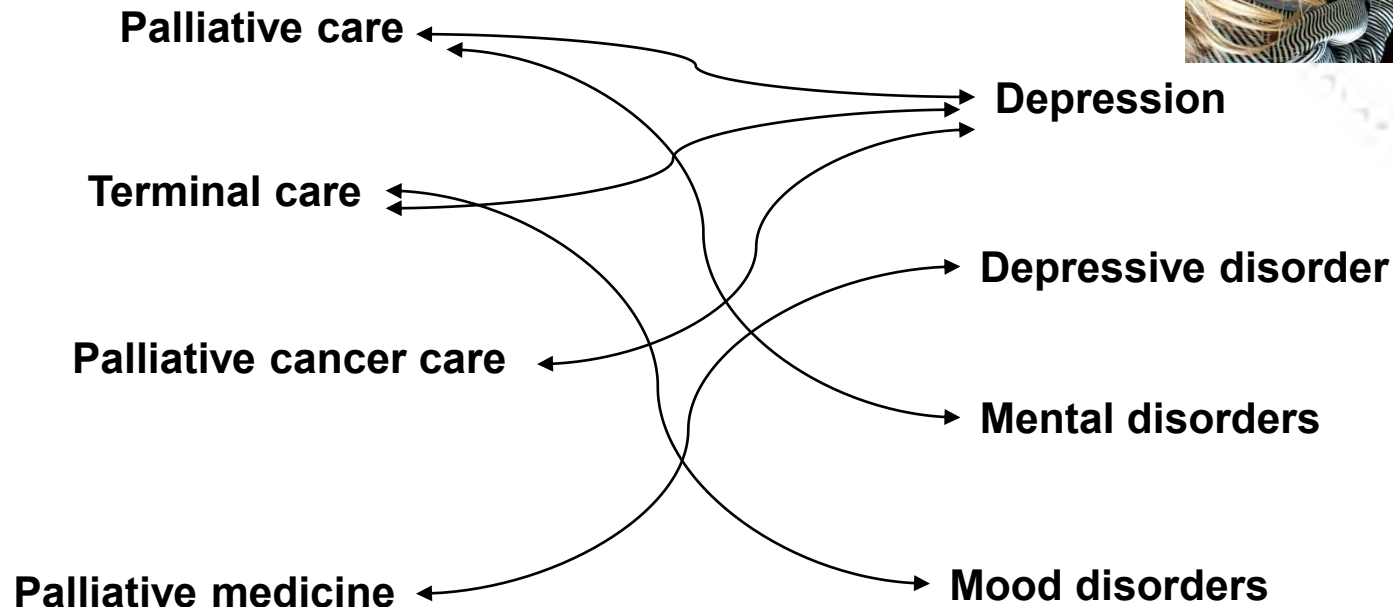
Searching the literature

- A well-structured literature search is the basis of **any** research project and a necessary part of research methodology.
(Maybe what you want to research is already answered? Reduce waste)
- A systematic literature search is both methodical and reasoned; it is based on a **systematic** approach that permeates the entire process
- As with other research procedures, literature searches should be documented and reproducible.



Haraldstad, A. M., & Christophersen, E. (2015). Literature searches and reference management. In P. Laake, H. B. Benestad, & B. R. Olsen (Eds.), Research in medical and biological sciences from planning and preparation to grant application and publication (pp. 125–166)

How a search often is done - UNsystematic



The result is probably a random selection of studies
Missing pieces in the jigzaw?
What did you NOT find/retrieve

Example: Search strategy and documentation

More systematic/advanced

– Palliative medicine and depressive disorders

1. «Palliative care» (MESH)
2. «Palliative care» (MESH)
3. «Palliative cancer care»
4. **OR/1-3**

- ↓
5. Depression (MESH)
 6. Depressive disorders (MESH)
 7. **OR/5-6**

8. 4 and 7

9. limit 8 to year = 2010 – 2020
10. Limit 9 to Systematic reviews

Aim is to create ONE result-list covering all relevant keywords(MESH) and synonyms

Where to search – Top Tips

Start with document types where information from many single studies is:

Found, evaluated, reviewed, summarized

Such as -

Systematic reviews, point of care tools, guidelines

(e.g Up to Date, Best practice, Helsebiblioteket, Pubmed clinical queries)



Books can give you a good start/ overview

(E-books in clinical key, Your Hospital/University-library catalogue)

Citation nesting – Start off/supplement search

e.g Google scholar

How to search - Top Tips

- Use more than one source 
- Remember synonymes 
- Look out for Systematic reviews!

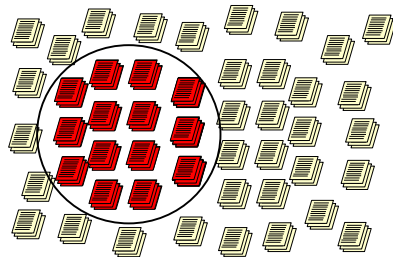
When available:

- Use Keywords e.g MESH
- Phrase search: write "quotes around words"
- Limits: Language, year, document type
- Defined search fields (author, article title..)
- Use search history to combine searches
- Truncate(*)- search for different word endings

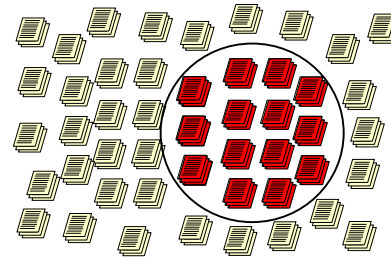
How to combine search terms

AND

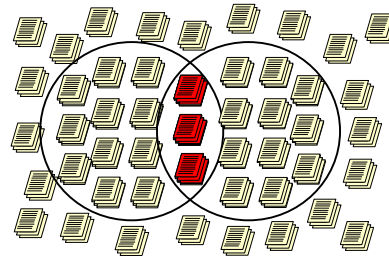
Depression



Palliative medicine



AND

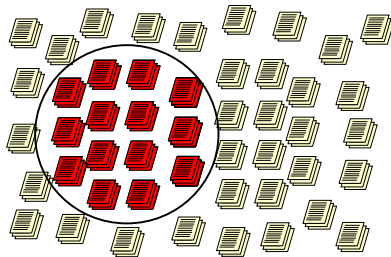


Depression AND Palliative medicine

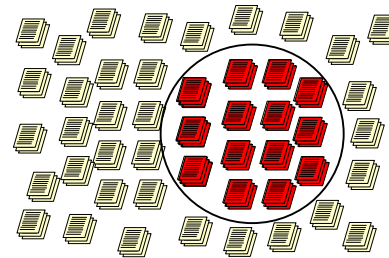
How to combine search terms

OR

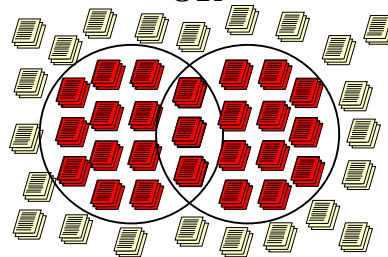
Depression



Depressive disorders



OR



Depression OR Depressive disorders

Evaluate your sources

Quality, reliability, relevance for your text

- What(type) of journal? Year? Author? Ranking?
- Type of study – case report VS large RCT

- Checklists for critical appraisal

<https://www.fhi.no/kk/oppsummert-forskning-for-helsetjenesten/sjekklister-for-vurdering-av-forskningsartikler/>

<https://casp-uk.net/casp-tools-checklists/>

NB! How does the source help you answer your research question/assignment

Controlled vocabulary or Free text search

Controlled vocabulary/Thesaurus

System/List of standard vocabulary/keywords used in reference databases.

Articles are assigned a number of keywords – that reflects the main content

Keywords can be used to evaluate quality of your search terms and find synonyms.

More likely to cover synoynms and retrieve relevant articles.

MeSH (Medical Subject Headings) is thesaurus used in Medline/PubMed, SveMed+, Cochrane...

Free text word (will retrieve more articles – relevant and **not** relevant)

Words the author(s) use in the title, abstract or free author key words

For exhaustive searches use both methods

NB – *Fulltext/the body of the article is **not** possible*

To search in most reference databases (like Pubmed)

BMJ Best Practice

Search conditions, symptoms...

Summarized research

Easy searching

NB! Not free of charge



Recent updates



Specialties



Calculators



Patient leaflets

Process videos

Drugs

Best Practice app



Get fast access to clinical answers.
Anywhere. Even when offline.

[ACCESS THE APP](#)

Recent updates

15 Nov 2017
Assessment

15 Nov 2017
Essential

15 Nov 2017
**Venezuelan
infection**

15 Nov 2017
Cerumen

LAT

Point of care tool (BMJ Evidence Centre)
«Quick answers »

10.000 conditions
Diagnosis, treatment, prognosis, patient leaflets, guidelines, references

Full text
(Search with 1 or 2 words)

SEE ALSO: UpToDate, NEL, Clinical Key, Dynamed

PubMed

US National Library of Medicine
National Institutes of Health

PubMed

Advanced

PubMed

PubMed c
books. Cit

PubMed

PubMed Tools

PubMed Mobile

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

Topic-Specific Queries

Using PubMed

PubMed Quick Start Guide

Full Text Articles

PubMed FAQs

PubMed Tutorials

New and Noteworthy

Help

Databases

Clinical Trials

E-Utilities

LinkOut

Large
More advanced searching needed

NEW interface fall 2019
In progress at:
www.ncbi.nlm.nih.gov/labs/pubmed/

Find systematic
reviews and
clinical studies
easy

Covers medicine/biomedicine.
References and abstracts from scientific journals
5600+ journals covered
The free version of Medline

Using [Pubmed-link from your homepage](#)/Library/Helsebiblioteket
often gives more access to full text !

www.ntnu.no

A detailed Introduction to PubMed



[NTNU Library - Guide](#)

Medicine and Health Library, NTNU

April 2018

post@bmh.ntnu.no

Interdisciplinary

Citations

Find Open access

NO advanced search - options



Articles (☒ include patents) ☐ Case law

[book] Hyperactive children grown up: **ADHD** in children, adolescents, and adults

G Weiss, LT Hechtman - 1993 - psycnet.apa.org

Abstract The first edition of "Hyperactive Children Grown Up" explored what happens to hyperactive children when they grow to adulthood.... Updating and expanding upon a classic work, this second edition includes entirely new chapters that summarize recent ...

☆ [Cited by 1257](#) [Related articles](#) [All 2 versions](#) [»](#)

Behavioral inhibition, sustained attention, and executive functions: constructing a unifying theory of **ADHD**.

RA Barkley - Psychological bulletin, 1997 - psycnet.apa.org

Abstract Attention deficit hyperactivity disorder (ADHD) is a developmental disorder characterized by inhibition. A theoretical model of ADHD is presented, which links the disorder to neuropsychological functions.

☆ [Cited by 7528](#)

[\[HTML\] apa.org](#)
[Fulltext @ NTNU](#)

Citation

Scientific Google

Scientific articles, conferences, books...

Searches **full text/all the text** of documents

What is much cited ranks high on result-page

Search for one known reference/article works very well

No quality control

See also – Scopus or Web of science



Health Topics

Find information on health, wellness, disorders and conditions



Drugs & Supplements

Learn about prescription drugs, over-the-counter medicines, herbs, and supplements



Videos & Tools

Discover tutorials, health and surgery videos, games, and quizzes



Medical Tests

Learn why your doctor orders medical tests and what the results may mean

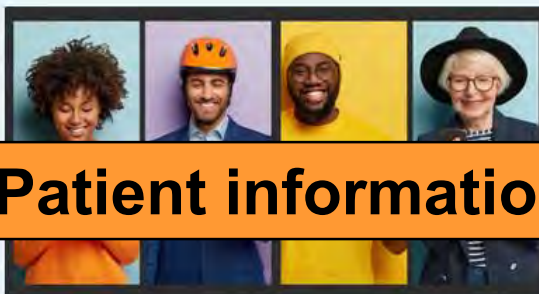


Medical Encyclopedia

Articles and images for diseases, symptoms, tests, treatments

Healthy Recipes

Share MedlinePlus



Find out **What's New on MedlinePlus**, including announcements of changes, and content.

Patient information

1 2 3 4 ▶

Tweets by @MedlinePlus



MedlinePlus.gov Retweeted



Readygov #PreparedNotScared

@Readygov

Tropical storms can cause dangerous flooding. Know how to prepare:

🔥 Clear drains & gutters

📦 Gather supplies to last a few days. Don't forget the needs of your pets!

📁 Keep documents in a waterproof container & move valuables to higher levels
ready.gov/floods#Karen



Stay Connected

Sign up for the My MedlinePlus newsletter

[GO](#)

NIH MedlinePlus Magazine

Read the [latest issue](#)

All of Us

[Health Information](#) for All of Us Research Program Participants

Clinical Trials

Search ClinicalTrials.gov for drug and treatment studies.



[Easy-to-Read Materials](#)



[Organizations](#) and [Directories](#)



[Health Information in Multiple Languages](#)



[MedlinePlus Connect for EHRs](#)

Why references?

- Integrity and recognition of other authors, respect and integrity
- Scientific ethics and practice
- The reader should be able to identify the sources used



VIKO – How to avoid plagiarism www.ntnu.edu/viko

Hviskeleken - Det du tror du vet, kan være en akademisk vandrehistorie
Spinat - inneholder det mye jern?
Forskerforum 47(7) 2015

Gråsoner i akademisk siteringspraksis / Rekdal 2016

www.etikkom.no/FBIB/Temaer/Redelighet-og-kollegialitet/grasoner-i-akademisk-siteringspraksis/

Good citation practice

- When should you cite your sources?
If you refer to, quote or paraphrase another text
- You should have read what you cite
- Use primary sources if possible, if not the citation should indicate this
- When not to cite?
If the point in question is considered «common knowledge»
- Save your references as you progress in your project.
- Most important – your readers should be given enough information to be able to identify your sources

Example article reference, Vancouver style

In a reference list

Kwan I, Mapstone J. Visibility aids for pedestrians and cyclists: a systematic review of randomised controlled trials. *Accid Anal Prev.* 2004;36(3):305-12.

In text

(5)

Year; Volume (Number): Page

Author(s)

Title of article

Journal title

How will a reference to a book or book-chapter look like?



What is Zotero?

- Easy web-based tool to collect, save and organize references (Open access/ Free)
- Import references from websites and databases – make your own collection of references (reference library)
- Use your reference library when you write to get correct citations and reference lists i Word, in your style of choice; Vancouver, APA, Harvard...

<https://www.ntnu.no/blogger/ub-mh/en/endnote-zotero/zotero/>

What is Endnote



EndNote is also a reference management tool,
(like Zotero, but has more advanced functionality)

You will have to buy a licence or ask if your institution
provides a licence

www.ntnu.no/blogger/ub-mh/en/endnote-zotero/

NTNU Studies Life and housing Research About NTNU Search

VIKO Help with Academic Writing from the NTNU University Library

Online training
www.ntnu.edu/viko

Defining a research topic

- Courses, modules and research topics
- Methods for formulating and choosing a module
- Revising research topics
- Writing a thesis for a company?

Finding sources

- Where to search
- How to search
- How to critically evaluate sources

Structuring your text

- Structuring an assignment
- Tools for Academic Writing

Using and Citing sources

- How to cite sources: APA | Chicago | Harvard | Vancouver
- Reference management tools: BibLaTeX | EndNote | Mendeley | Zotero
- How to avoid plagiarism



References

APA 6th
 APA 6th for footnotes
 Chicago 16 A
 IEEE

What is a reference style? ▶



Source evaluation

Books
 Scientific articles
 Webpages
 Works of reference
 Public documents
 Newspapers
 Words&terms

Read more ▶



Legislation

Use of archive records
 Copyright
 Design
 Patent
 Trademark

Read more ▶

For referencing — check out
www.kildekompasset.no



SEARCHING READING WRITING SOURCES AND REFERENCING ABOUT SEARCH & WRITE



Online training
sokogskriv.no/en/

Search & Write (Søk & Skriv) is created especially for you who are writing assignments at a Norwegian university or university college. You will find guidance and advice for all stages of the writing process, such as searching, reading, writing and referencing.

The contents of Search & Write follow the norms for academic writing and use of sources in most subject areas. The pages have now been made flexible for better reading on your cell phone.



New to PhD?

SEARCH AND REVIEW

learn about:

- [searching](#)
- [reviewing](#)
- [types of reviews](#)
- [writing](#)
- [workflow](#)
- [reference managers](#)

SHARE AND PUBLISH

learn about:

- [how to publish](#)
- [submitting articles](#)
- [co-authorship](#)
- [copyright](#)
- [the Cristin system](#)
- [citation impact](#)

OPEN SCIENCE

learn about:

- [open access publishing](#)
- [open archives](#)
- [research data](#)
- [data management](#)
- [sensitive data](#)
- [preregistration](#)

Advanced online training
www.phdontrack.net/



NTNU

Universitetsbiblioteket
University LibraryFagside for medisin og helse
Subject page for medicine and health

News and subject resources in medicine, nursing and health sciences

Databases/Articles

Article Search

- PubMed – medicine and health science (handout from the library course)
- Medline – medicine and health science
- EMBASE – medicine, health science and pharmacology
- Cochrane Library – medicine and health science (systematic reviews)
- SveMed+ – medicine and health science (in Norwegian)

- Cinahl – nursing
- PsycINFO – psychology and psychiatry
- Global Health – public health and global health
- SPORTDiscus – sports and movement science
- PEDro – physiotherapy evidence
- OT Seeker – occupational therapy
- AMED – physiotherapy and occupational therapy
- ERIC – pedagogy

Check what is available from
your institution/employer-
Journals
Databases
E-books
.....

Visible Body 3D anatomy atlas

Publish with Open Access

Biomedical and Life Sciences Lectures

PhD on track

Academic writing (VIKO)

VPN – connect to NTNU-network from home

All Subject pages at NTNU University Library

Search the blog

enter search terms

search

NTNU Medical Library homepage
<https://www.ntnu.no/blogger/ub-mh/en/>