

With this guide, we will guide you through various processes of searching for scientific literature.

This guide is intended for PhD students of the Amsterdam UMC Doctoral School. However, anyone, from a "beginner" to a starting PhD candidate can use the (online) resources of this guide.

The primary focus is to accommodate you in your current knowledge about the use of PubMed. You may have had previous education on how to use PubMed, but your acquired knowledge has faded over the years.

The medical library offers courses to PhD students through the Amsterdam UMC Doctoral School. Most of the available courses are e-learnings. To be able to enter our (hybrid) course "Searching for a systematic review", general knowledge obtained through the available e-learning courses is required.

For further information, see the courses page of the Amsterdam UMC Doctoral School.

Finally, we provide support in the development of your search strategy for a (systematic) review. You can submit a request for this via the contact form on the intranet page of the <u>Medische Bibliotheek</u>, <u>AMC</u>

1. Formulating a (re)search question

Formulating a well-defined research question is the basis for the development of a search strategy in biomedical databases, such as PubMed.

See: Appendix I: Literature search and search process in PubMed

2. Searching on pubmed

After you have formulated a well-defined question, the next step is to convert this question into a search in (for example) PubMed. A useful tool for understanding the functionalities in PubMed is the E-learning Literatuur zoeken (medischonderwijs.nl). This e-learning can be accessed free of charge on medicalonderwijs.nl (registration is required)

Registration on via Medischonderwijs.nl:

medicaleducation.nl	Easy access to more than 1 medical e-learning applicati
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Figure 1. after registration, search in the search field for the full E-learning "Literature search" or to search for the substantive topics mentioned below.

The following topics are covered in the E-learning Literature search:

- Boolean logic
- MeSH (introduction)
- MeSH, free text words and truncation
- Developing a strategy on PubMed
- Evaluation of search results
- PubMed vs Google Scholar

In addition to this interactive E-learning, the <u>PubMed intranet page</u> of the Medical Library contains more "tips and tricks" for <u>searching in databases</u>

3. Other interesting sources

3.1 Dutch Journal of Medicine

The web page of the <u>Dutch Journal of Medicine</u> (ntvg) has made a web manual, called "How do I find the best information" available for literature searches.

3.2 LibGuide Vrije Universiteit of Amsterdam

The Libguide of the Vrije University (VU) of Amsterdam, contains a special page, called <u>"Step-by-step</u> plan for literature searches in PubMed: Introduction". ". This page aims to guide you from a research question to a search strategy on PubMed. Supporting this page, a video demonstration of <u>How to search PubMed in a systematic way</u> is available.

Amsterdam UMC

Searching for literature Part 2: The process of searching for literature and searching in PubMed

Amsterdam UMC, Medical Library Amsterdam Medical Center(AMC)



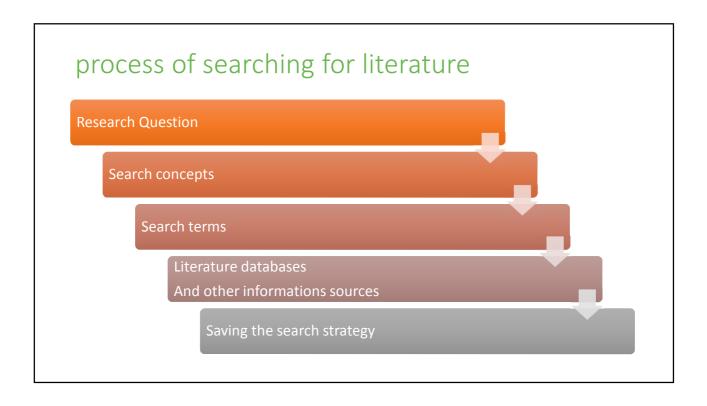
Databases

- PubMed/Medline
- Medline (in AMC by Ovid)
- Embase (in AMC by Ovid)
- Cochrane Library (Wiley)
- TRIP Database
- PsycINFO (by Ovid)
- CINAHL (by Ebsco)
- PEDRO
- AMED
- Google Scholar
- Web of Science
- Scopus

- (Bio)medical
- (Bio)medical (Bio)medical, farmacological, psychiatry (Bio)medical
- (Bio)medical. Aggregated evidence
- Psychology, psychiatry, behavioural sciences Nursing and other associated topics Physical therapy Alternative therapies

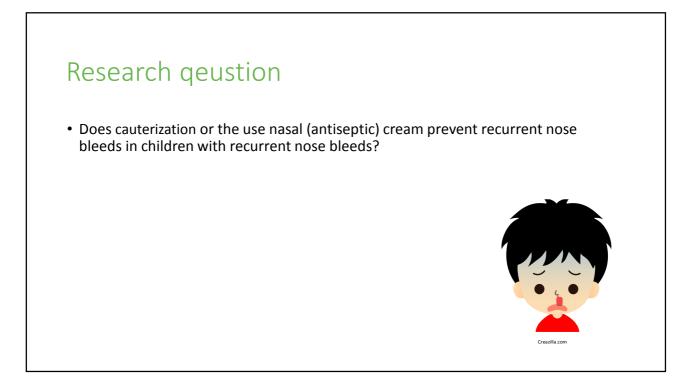
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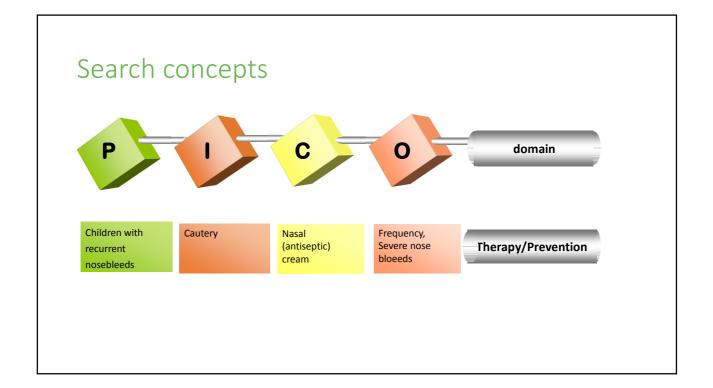


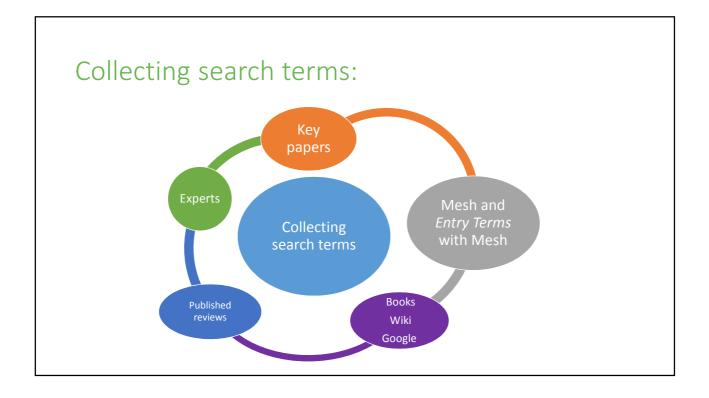


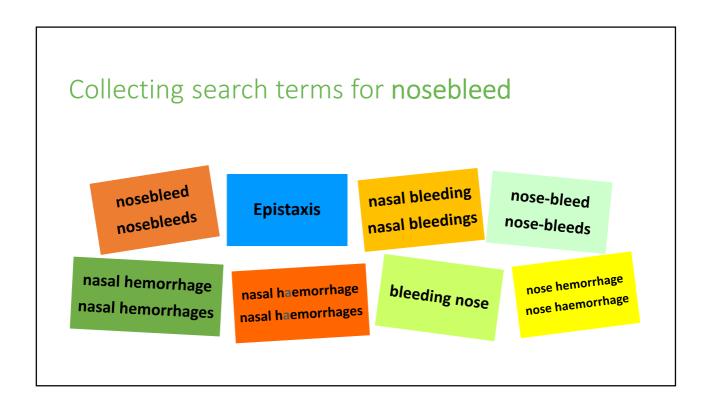
Casus

Billy, a 7 year old boy, visits the genereral practitioner with an unpromted nosebleed. His mother is very worried, because this happens quite often.
The boy does not have any underlying diseases.
You suggest it will be better to perfom a cauterization to prevent future nose bleeds.
Billy's mother asked if there are any alternative treatments.
Your response is to suggest antiseptic creams, at the same time you have doubts about their effectivness.
You promise the mother to find reliable evidice.





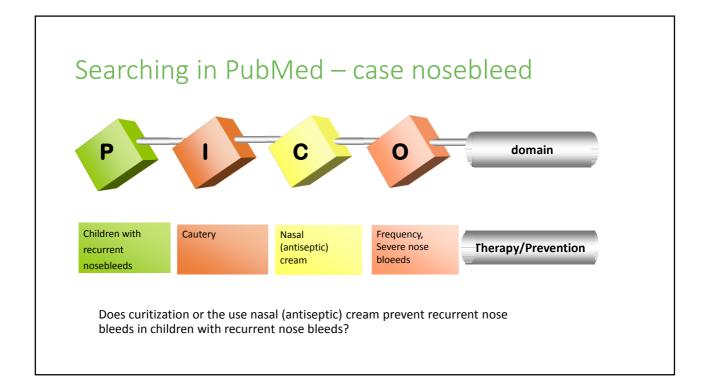




Databases PubMed/Medline (Bio)medical • Medline (in AMC by Ovid) (Bio)medical • Embase (in AMC by Ovid) (Bio)medical, farmacological, psychiatry • Cochrane Library (Wiley) (Bio)medical TRIP Database (Bio)medical. Aggregated evidence • PsycINFO (by Ovid) Psychology, psychiatry, behavioural sciences • CINAHL (by Ebsco) Nursing and other associated topics • PEDRO Physical therapy AMED Alternative therapies

- Google Scholar
- Web of Science
- Scopus

General General, cited references General



Example search strategy : nosebleed

"Epistaxis"[Mesh] OR nosebleed*[tiab] OR nose bleed*[tiab] OR epistaxis[tiab] OR nasal bleed*[tiab] OR nasal hemorrhage*[tiab] OR nasal haemorrhage*[tiab]

Search stratery noseblood in childeren

("Epistaxis"[Mesh] OR nosebleed*[tiab] OR nose bleed*[tiab] OR epistaxis[tiab] OR nasal bleed*[tiab] OR nasal hemorrhage*[tiab] OR nasal haemorrhage*[tiab])

AND

("Child"[Mesh] OR child*[tiab])

Saving your search stratery

Why:

- Transparency and reproducibility
- To re-run your search or to perform an update

Where:

- Save in Word or Excel or in the database (registration is required)
- When saving: state the database, date of the search, and the results at that particular date

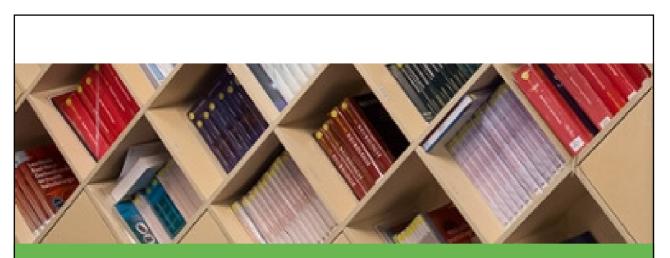
Saving the search strategy

- Results from search strategies can be imported into Reference manager software:
 - Examples: EndNote, Mendeley, Zotero
- In the program you can import results from multiple databases, and finally deduplicate all the results in once.
- Note: The Medical Library AMC uses EndNote
 - Also see our website bibliotheek AMC Intranet Ik wil meer weten over Endnote
 - There you will find the accompanying Endnote userguide
- Mendeley and Zotero are FREE!

Summary

- The steps in the processes for searching literature

- apply them
- make the appropriate choiceHow to save your search strategy



Searching for literature The process of searching for literature and searching

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