COFFEE



LECTURE



b Universität Bern Enhance the coverage of your PubMed Literature Search with the Embase Query Translation Tool



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Medical Library

Thursday, 05 December 2024 13:00, Zoom

u^b Embase Query Translator ToolWhat are we covering?

- Searching beyond PubMed
- A word on search translation
- Brief introduction to Embase

- Use cases and tips
- Resources and support

u^b Embase Query Translator Tool Enhance what? Why look further?



- Better scope of the literature
- Identify potentially relevant articles
- Migitate bias
- Project requirements

Searching two or more databases decreased the risk of missing relevant studies: a metaresearch study

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Hannah Ewald <sup>1</sup>, Irma Klerings <sup>2</sup>, Gernot Wagner <sup>2</sup>, Thomas L Heise <sup>3</sup>, Jan M Stratil <sup>4</sup>, Stefan K Lhachimi <sup>5</sup>, Lars G Hemkens <sup>6</sup>, Gerald Gartlehner <sup>7</sup>, Susan Armijo-Olivo <sup>8</sup>, Barbara Nussbaumer-Streit <sup>2</sup>
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Affiliations + expand

PMID: 35654269 DOI: 10.1016/j.jclinepi.2022.05.022

Optimal database combinations for literature searches in systematic reviews: a prospective exploratory study

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Wichor M Bramer <sup>1</sup>, Melissa L Rethlefsen <sup>2</sup>, Jos Kleijnen <sup>3</sup> <sup>4</sup>, Oscar H Franco <sup>5</sup>
Affiliations + expand
PMID: 29208034 PMCID: PMC5718002 DOI: 10.1186/s13643-017-0644-y
```

u^b Embase Query Translator Tool A word on search translation

- Search translations are not 1:1
- Search features and subject headings vary from database to database
- Free-text terms should be applied consistently
- A user with in-depth knowledge can develop a good search strategy and evaluate accordingly

u^b Embase Query Translator Tool A word on search translation

Feature	PubMed	Embase	APA PsycINFO (Ovid)
Controlled vocabulary	MeSH	Emtree	APA Thesaurus
Title search	[Title] or [TI]	:ti	.ti.
Abstract search	[Abstract] or [AB]	:ab	.ab.
Title/Abstract search	[Title/Abstract] or [TIAB]	:ti,ab	.ti,ab.
Author search	[Author] or [AU]	:au	.au.
Journal search	[Journal] or [TA]	:jt	.jn.
Exact phrase	""	11	""
Truncation	*	*	*
Proximity	"term1 term2"[Field:~n]	NEAR/n, NEXT/n	ADJn
Boolean operators	AND, OR, NOT	AND, OR, NOT	AND, OR, NOT

$oldsymbol{u}^{\scriptscriptstyle b}$ Embase Query Translator Tool A word on search translation



u^b Embase Query Translator Tool A word on search translation







u^b Embase Query Translator Tool Considerations

Before using the translation tool:

Examine your PubMed search

- What were the initial results?
- Are you optimizing with what is available in the platform?

- Leading database with extensive coverage in pharmacology, toxicology, biomedicine etc....
- Includes grey literature such as preprints, conference abstracts

- It is one the key databases for evidence synthesis/systematic review projects
- Offers different search modes to suit user's preferences and research needs

 Indexes ~ 8,952 journals and contains over 41 million records

University Library of Bern UB





Databases



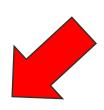


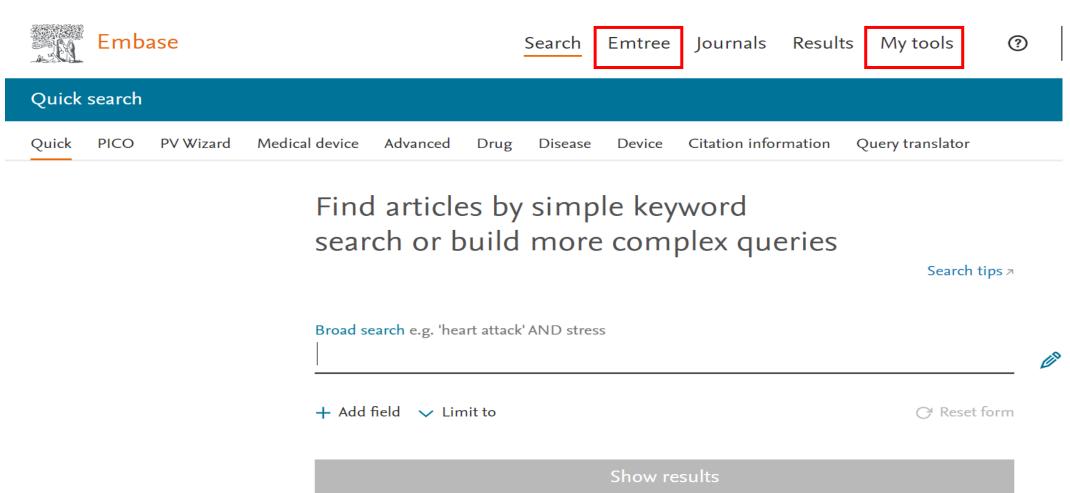


Broad search e.g. 'heart attack' AND stress

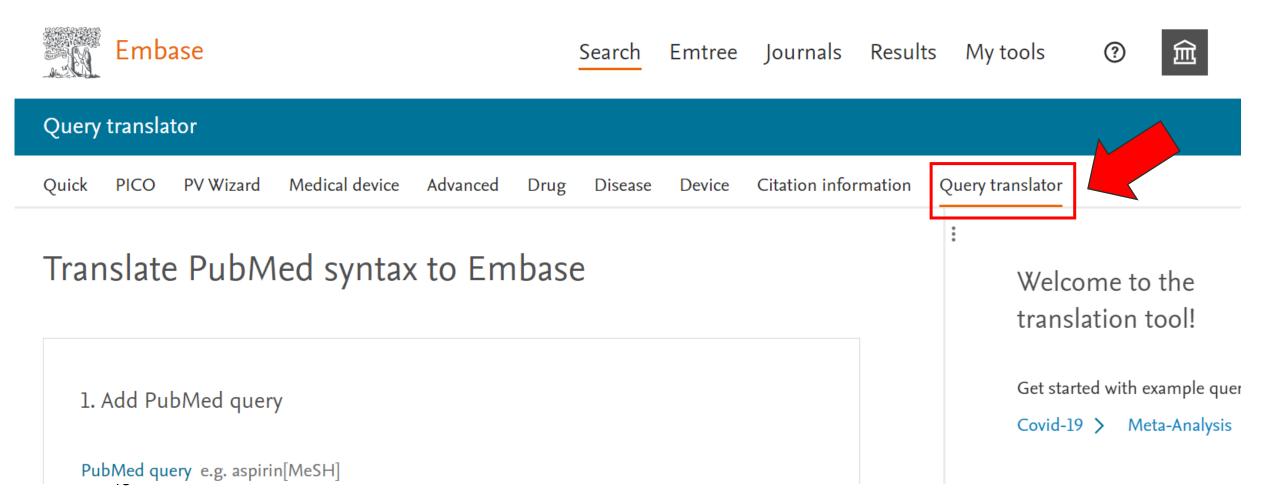
+ Add field Limit to

Show results





Display full query



u^b Embase Query Translator Tool What we know

- Helps identify literature without creating an Embase search from scratch
- Tool only translates single-block searches
- Some PubMed terms will not be translated accordingly
- If using the tool for a systematic review search, potentially relevant search terms may be missed/overlooked
- Editing your Embase search from the translation box is limited

u^b Embase Query Translator Tool

Search Scenarios



atopic dermatitis therapy adults

Advanced Create RSS

Query translator

1. Add PubMed query

PubMed query e.g. aspirin[MeSH] atopic dermatitis therapy adults

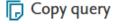
Translate

2. Review Embase translation

'atopic dermatitis therapy adults'

Show 0 results

Q Take to Advanced search







atopic dermatitis therapy adults



Advanced Create alert Create RSS

History and Search Details



Search Actions Details Query

#1



Search: atopic dermatitis therapy adults Sort by: Publication Date

("dermatitis, atopic"[MeSH Terms] OR ("dermatitis"[All Fields] AND "atopic"[All Fields]) OR "atopic dermatitis"[All Fields] OR ("atopic"[All Fields] AND "dermatitis"[All Fields])) AND ("therapeutics"[MeSH Terms] OR "therapeutics"[All Fields] OR "therapies"[All Fields] OR "therapy"[MeSH Subheading] OR "therapy"[All Fields] OR "therapy s"[All Fields] OR "therapys"[All Fields]) AND ("adult"[MeSH Terms] OR "adult"[All Fields]) OR "adults"[All Fields])

1. Add PubMed query

PubMed query e.g. aspirin[MeSH]

("dermatitis, atopic"[MeSH Terms] OR ("dermatitis"[All Fields] AND "atopic"[All Fields]) OR "atopic dermatitis"[All Fields] OR ("atopic"[All Fields] AND "dermatitis"[All Fields])) AND ("therapeutics"[MeSH Terms] OR "therapeutics"[All Fields] OR "therapies"[All Fields] OR "therapy"[MeSH Subheading]

OR "therapy"[All Fields] OR "therapy s"[All Fields] OR "therapys"[All Fields]) AND ("adult"[MeSH Terms] OR "adult [All Fields] OR "adults"[All Fields] OR "adults"[All Fields])

Translate



2. Review Embase translation

('atopic dermatitis'/exp OR ('dermatitis' AND 'atopic') OR 'atopic dermatitis' OR ('atopic' AND 'dermatitis')) AND ('therapy'/exp OR 'therapeutics' OR 'therapies' OR 'therapy' OR 'therapy' OR 'therapy' OR 'therapy') AND ('adult'/exp OR 'adult' OR 'adults' OR 'adults')

Show 13,938 results

Q Take to Advanced search



Translate PubMed syntax to Embase

1. Add PubMed query

PubMed query e.g. aspirin[MeSH]

("Child"[Mesh] OR "Adolescent"[Mesh] OR child*[Title/Abstract] OR teen*[Title/Abstract] OR

youth*[Title/Abstract] OR adolescen*[Title/Abstract] OR kid[Title/Abstract] OR

kids[Title/Abstract]) AND ("Coxiella burnetii"[Mesh] OR "Coxiella burneti*"[Title/Abstract] OR

C-burneti*[Title/Abstract] OR C.burneti*[Title/Abstract])

Translate



2. Review Embase translation

('child'/exp OR 'adolescent'/exp OR 'child*':ti,ab,kw OR 'teen*':ti,ab,kw OR 'youth*':ti,ab,kw OR 'adolescen*':ti,ab,kw OR 'kid':ti,ab,kw OR 'kids':ti,ab,kw) AND ('Coxiella burnetii'/exp OR 'coxiella burneti*':ti,ab,kw OR 'c-burneti*':ti,ab,kw OR 'c.burneti*':ti,ab,kw)

Show 541 results

Q Take to Advanced search



OR C.burneti*[Title/Abstract])

'child'/exp

3,551,106 results

Translated from: child[mesh].

Open term in Emtree > Remove term

. Review Embase translation

(('child'/exp OR 'adolescent'/exp OR 'child*':ti,ab,kw OR 'teen*':ti,ab,kw OR 'yo OR 'adolescen*':ti,ab,kw OR 'kid':ti,ab,kw OR 'kids':ti,ab,kw) AND ('Coxiella b OR 'coxiella burneti*':ti,ab,kw OR 'c-burneti*':ti,ab,kw)



Emtree position

Term information

Search term in Emtree

child

Emtree

groups by age and sex

■ groups by age

(juvenile

-⊚ child

- abandoned child

adopted child

— ● boy

— • brain damaged child

child of impaired parents

foster child

child

Extend search using: /exp ^



Explosion /exp

Searches your term (or maps to the preferred Emtree term) and related narrower or children terms

×

Major focus /mj 139,639

Index term /de 2,439,097

Explosion and Major focus /exp/mj 231,528

Explosion /exp 3,551,106

As broad as possible /br 4,107,697

Explosion and all synonyms /syn 4,823,458

Adolescent



A person 13 to 18 years of age.

PubMed search builder options Subheadings:

- □ legislation and jurisprudence □ physiology
 □ Restrict to MeSH Major Topic.
 □ Do not include MeSH terms found below this term in the MeSH hierarchy.
 Tree Number(s): M01.060.057
 - Adolescents

Entry Terms:

Adolescence

MeSH Unique ID: D000293

- · Adolescents, Female
- Adolescent, Female
- Female Adolescent
- Female Adolescents
- · Adolescents, Male
- · Adolescent, Male
- Male Adolescent
- · Male Adolescents
- Youth
- Youths
- Teens
- Teen
- Teenagers
- Teenager

See Also:

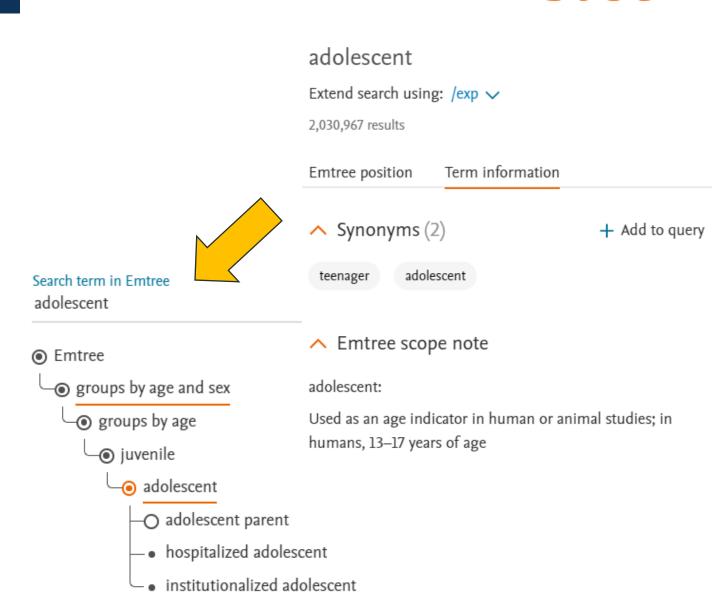
Minors

All MeSH Categories
Persons Category
Persons

Age Groups

Adolescent

Embase





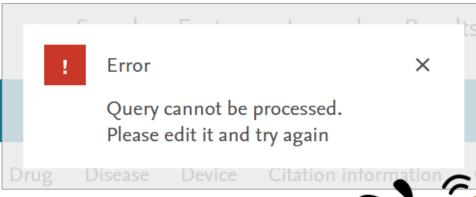
Query translator

Quick PICO

PV Wizard

rd Medical device

Advanced



Translate PubMed syntax to Embase

1. Add PubMed query

PubMed query e.g. aspirin[MeSH]

("Child"[Mesh] OR "Adolescent"

("Child"[Mesh] OR "Adolescent"[Mesh] OR child*[Title/Abstract] OR teen*[Title/Abstract] OR

youth*[Title/Abstract] OR adolescen*[Title/Abstract] OR kid[Title/Abstract] OR

kids[Title/Abstract] AND ("Coxiella burnetii"[Mesh] OR "Coxiella burneti*"[Title/Abstract] OR C-

burneti*[Title/Abstract] OR C.burneti*[Title/Abstract])





(<a href="child" OR 'adolescent'/exp OR 'child*':ti,ab,kw OR 'youth*':ti,ab,kw OR 'adolescen*':ti,ab,kw OR 'kid':ti,ab,kw OR 'kid':ti,ab,

1. Add PubMed query

PubMed query e.g. aspirin[MeSH] "diabetes mellitus"[Title:~3]

Translate

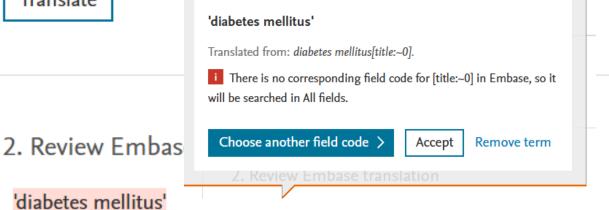
2. Review Embase translation

('diabetes' NEAR/4 'mellitus'):ti

1. Add PubMed query

PubMed query e.g. aspirin[MeSH] "diabetes mellitus"[Title:~0]

Translate



'diabetes':ti,ab,kw,de,dn,df,mn,tn

Translated from: diabetes[text word].

Change field code > Remove term

Review Embase translation

'diabetes':ti,ab,kw,de,dn,df,mn,tn

Translated from: diabetes[text word].

diabetes

Choose another field code:

Search fields

All fields free text

Title :ti

Title or Abstract :ab,ti

Title, Abstract or Author keywords :ti,ab,kw

Author keywords :kw

Abstract :ab

Affiliation :ff

Article - start page :sp

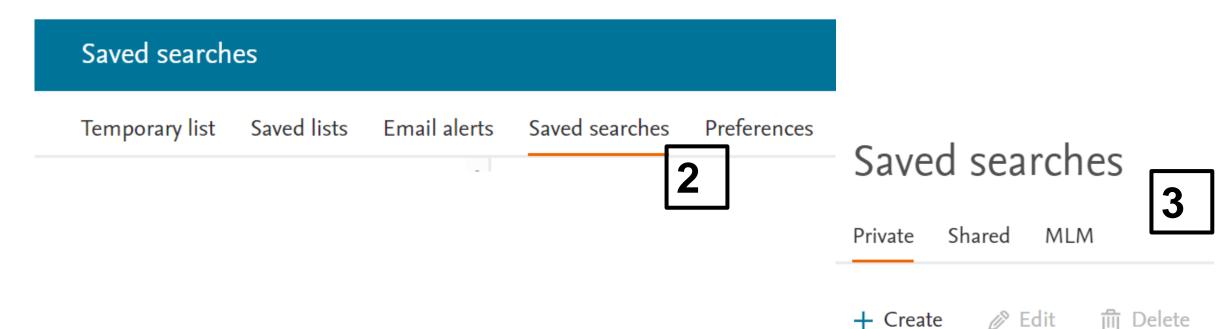
Author name :au

CAS registry number :rn

Clinical trial number :cn

u^b Embase Query Translator ToolSaving your search

Search Emtree Journals Results My tools



$oldsymbol{u}^{\scriptscriptstyle b}$ Embase Query Translator Tool Deduplication



Deduklick





Bramer Method for EndNote

u^b Embase Query Translator Tool Reporting

Section/topic	H	Checklist item	
NFORMATION SOURCE	ES AND N	METHODS	
Database name	1	Name each individual database searched, stat	
Multi-database searching	2	If databases were searched simultaneously on	
itudy registries	3	List any study registries searched.	
Online resources and prowsing	4	Describe any online or print source purposefu and how this was done.	
Citation searching	5	Indicate whether cited references or citing references (e.g., browsing reference lists, usin	
Contacts	6	Indicate whether additional studies or data w	
Other methods	7	Describe any additional information sources of	
SEARCH STRATEGIES			
Full search strategies	8	Include the search strategies for each databas	
imits and restrictions	9	Specify that no limits were used, or describe design) and provide justification for their use	
Search filters	10	Indicate whether published search filters wer	
Prior work	11	Indicate when search strategies from other lit the previous review(s).	
Jpdates	12	Report the methods used to update the searc	
Dates of searches	13	For each search strategy, provide the date wh	
PEER REVIEW			
Peer review	14	Describe any search peer review process.	
MANAGING RECORDS			
Total Records	15	Document the total number of records identi	
Deduplication	16	Describe the processes and any software used	

PRISMA for Searching (PRISMA-Search)

single platform, state the name of the platform, listing all of the databases searched

ully searched or browsed (e.g., tables of contents, print conference proceedings, web sites)

The PRISMA extension for searching was published in 2021. The checklist includes 16 reporting items, each of which is detailed with exemplar reporting and rationale.

Key documents

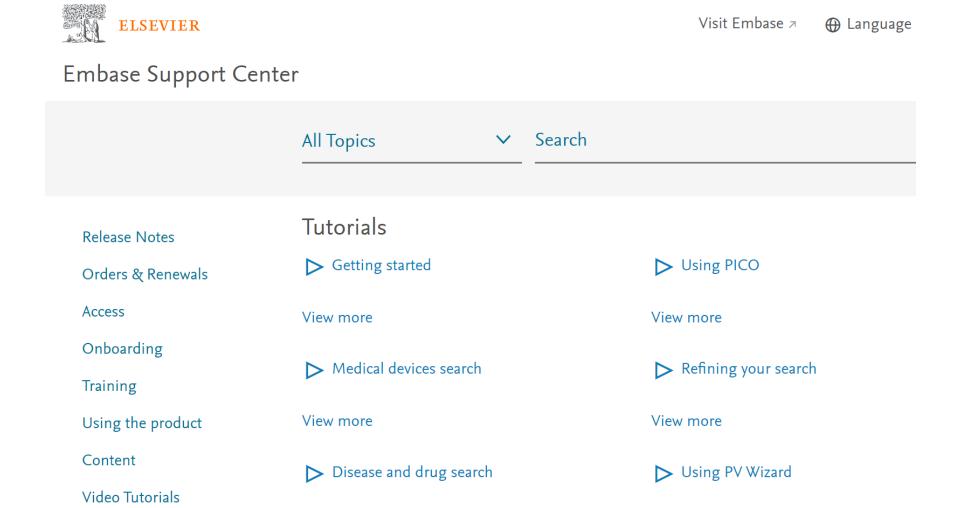
g the platform for each.

- Checklist: PDF | Word | Excel
- Statement / Explanatory paper: Rethlefsen ML, Kirtley S, Waffenschmidt S, Ayala AP, Moher D, Page MJ, Koffel JB; PRISMA-S Group. PRISMA-S: an extension to the PRISMA Statement for Reporting Literature Searches in Systematic Reviews. Syst Rev. 2021;10(1):39. doi: 10.1186/s13643-020-01542-z
- FAQs paper: Rethlefsen ML, Page MJ. PRISMA 2020 and PRISMA-S: common questions on tracking records and the flow diagram. J Med Libr Assoc 2022;110(2):253-257. doi: 10.5195/jmla.2022.1449

u^b Embase Query Translator Tool Take-aways

- This tool can offer an efficient way to scope the literature and identify additional studies
- Consider the advantages and limitations
- Check and review search syntax
- Consult with an information specialist about search tools and search strategies

u^b Embase Query Translator Tool Resources and support



u^b Embase Query Translator Tool Resources and support

Medicine and Pharmacy Portal

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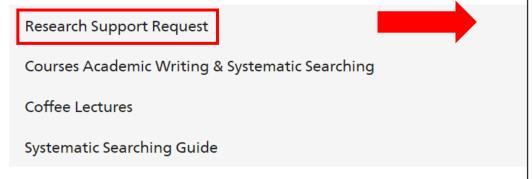


u^b Embase Query Translator Tool Resources and support

Medicine and Pharmacy Portal

The Medicine and Pharmacy Portal offers support for your studies, research and teaching. Here you may find news and information about subject-specific events and services offered by the university library as

well as useful tools for your scientific work. Quick links:



Research Support Request - Medicine & Pharmacy Please fill in the form. We get in touch with you as soon as possible. Thank you. 1 Services 2 Personal data 3 Your project What can we do for you? Consultation (advice only; free of charge*) Librarian-assisted search (we carry out a search, max. 2 hours are free of charge*)

Systematic Review Services / Evidence Synthesis Services (project collaboration, various areas of support; fee-based, Insel free of

Scientific writing and editing services (fee-based*)

Design and deliver a course / workshop*

Ol Other

Thanks



for your attendance



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support med.ub@unibe.ch

Thanks



for your attendance



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for your attendance



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Now there is time for...

Questions & Discussion

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