

Embase®

By:

Masoud Mohammadi

Golestan University of Medical Sciences

Session aims

- To understand the concepts of a basic search strategy in Embase
- To describe the EMTREE thesaurus in detail so that you will be able to apply EMTREE to use Embase efficiently
- To carry out advanced Embase searches

Biomedical Evidence is Essential

- To successfully perform critical functions such as pharmacovigilance, generating high-quality systematic reviews in support of evidence-based medicine and drug and medical device efficacy studies, pharmaceutical and life sciences organizations require a wide array of biomedical evidence.
- Embase increases the discovery of biomedical evidence to support critical life sciences functions, delivering relevant, up-to-date biomedical information to the global biomedical research community.

Relevant and Accessible Biomedical Information

- Over 30 million abstracts and indices from published, peer-reviewed biomedical literature, in-press publications and conferences are available on Embase. Full-text indexing of drug, disease and medical device data, supported by the Embase thesaurus Emtree, facilitates precise searching.

Embase Content

- Embase provides unparalleled coverage of the biomedical literature, with **30 million+ records from 8,500+ currently published journals**. Embase includes **six million+ records and 2,900+ journals** that are not covered by MEDLINE. Also, Embase Classic provides access to data going back to 1947.

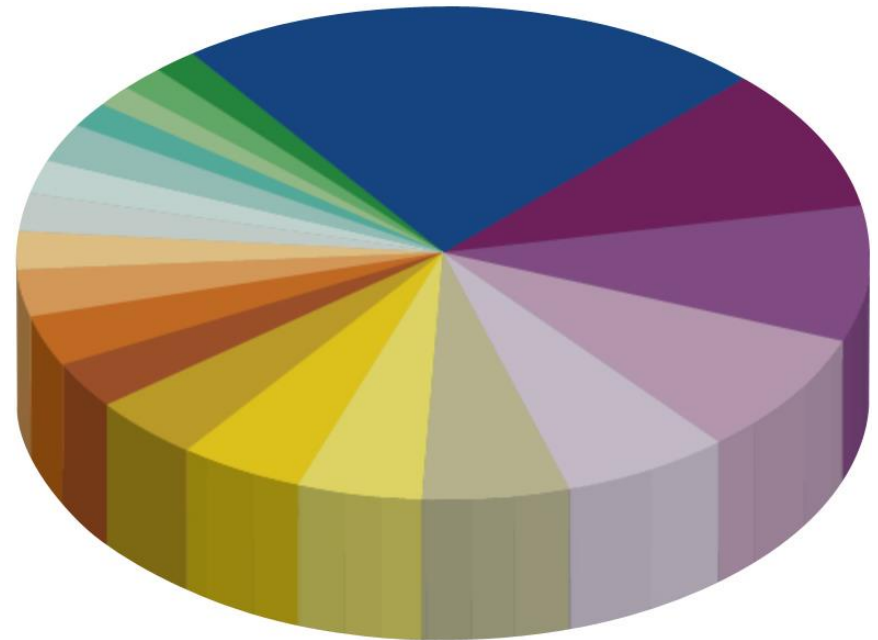
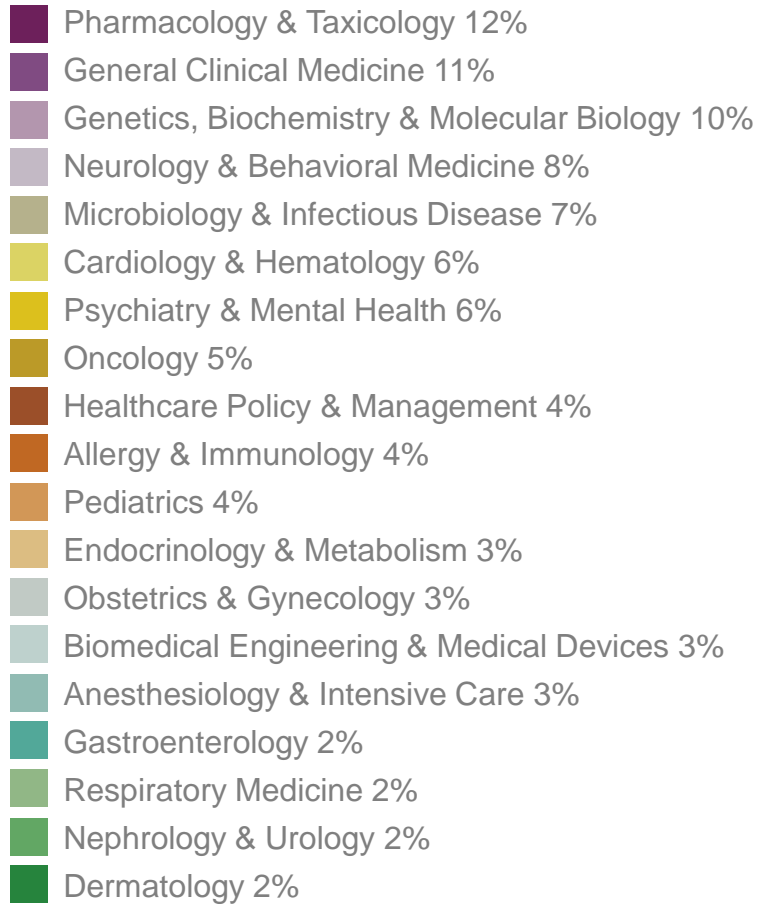
List of Conferences Covered in Embase

- Embase includes conference abstracts from important biomedical, drug and medical device conferences dating back to 2009. It currently indexes 6,000+ conferences covering over 2 million conference abstracts—advanced information that can't be found searching MEDLINE alone.

As of January 2016, Emtree contains:

- Over 73,000 preferred terms (more than 31,000 for drugs and chemicals)
- Over 310,000 synonyms (more than 190,000 for drugs and chemicals)
- Over 3,000 specific terms for general and medical devices (e.g., endoscopes, catheters, prostheses)
- Several thousand terms for related medical procedures (e.g., endoscopy, catheterization)
- 64 drug subheadings, including 47 routes of administration
- 4 medical device subheadings
- 14 disease subheadings
- 38 check tags for study types, including randomized controlled trial, systematic review, and diagnostic test accuracy study
- Links to over 23,000 CAS registry numbers

Embase Scope & Coverage



Other topics 28%
Including public health, basic biomedical science and topics included from MEDLINE

EMBASE vs Medline

MEDLINE

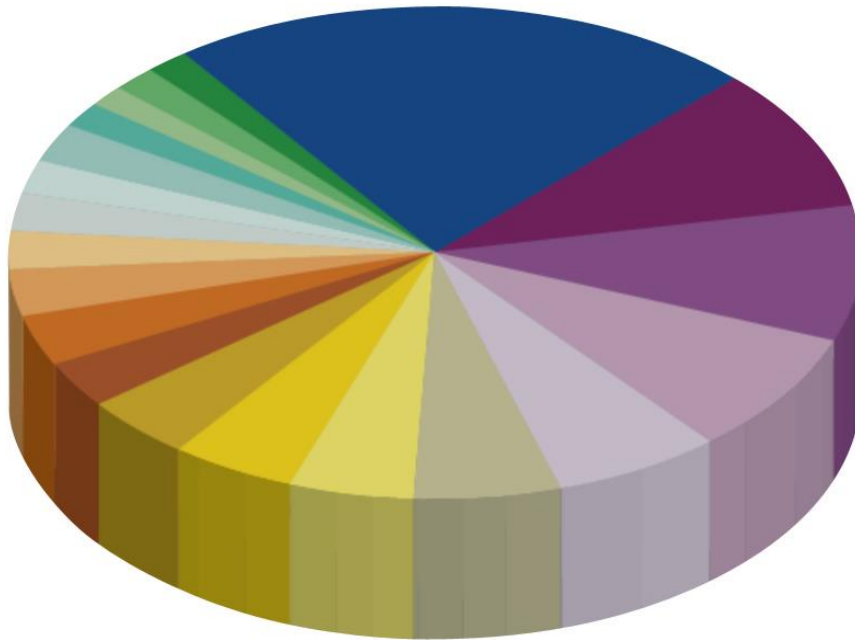
- USA coverage
- 1950 onwards
- Wide medical coverage
- In process
- MeSH indexing

EMBASE

- European coverage
- 1974 onwards
- Drug/pharmacology focus
- Updated faster
- EMTREE indexing

30% overlap between the Medline and Embase

Embase vs MEDLINE – Scope



Similar overall pattern of coverage

... *but with two major differences*

1. Pharmacology & toxicology

Embase: 11.2% (889 titles)

MEDLINE: 8.3% (465 titles)

2. General clinical medicine

Embase: 10.5% (835 titles)

MEDLINE: 8.9% (495 titles)

Pharmacovigilance

- A key component of diverse and increasingly complex pharmacovigilance regulatory requirements is systematic screening of biomedical literature for adverse drug reactions (ADRs).
- Capturing all potential and unanticipated **health risks for a drug** from the international biomedical literature also allows pharmaceutical manufacturers to proactively develop more effective drug safety strategies. Embase helps track all published/peer-reviewed biomedical information on your products and makes it easy to quickly review reported safety risks, side effects and adverse drug events information — all in a single platform.

□ Embase provides the information pharmaceutical companies need for effective pharmacovigilance

- Comprehensive and up-to-date drug safety information, with over 30 million records from more than 8,500 journals and 5,500 conferences
- The Embase thesaurus, Emtree, is one of the most comprehensive thesauri available for life science information, with a unique focus on drug terminology
- Direct linking of drugs, diseases and devices to associated events mentioned in the article, enabling more precise retrieval of adverse event information

Systematic Reviews (EBM).

- Finding all relevant information from the biomedical literature is key to creating high-quality systematic reviews that accelerate evidence-based clinical decisions and improve patient outcomes.
- Unique coverage of the most important types of evidence and search tools specifically designed to pinpoint relevant biomedical literature ensures that Embase enables Biomedical Researchers to generate the most impactful Systematic Reviews in support of Evidence-Based Medicine (EBM).

Embase provides the information researchers need to generate high-quality Systematic Reviews

- Dedicated search form for building searches using the PICO (Patient, Intervention, Comparison/control, Outcome) framework
- More than 30 million records from over 8,500 journals and 'grey literature' from over 1.9 million conference abstracts
- Coverage of the most important types of evidence, including randomized controlled trials, controlled clinical trials, Cochrane reviews and meta-analyses

- Deep indexing using the Emtree life science thesaurus, which includes **over 70,000 preferred terms** and **290,000 synonyms**, as well as trial and study types, reviews and meta-analysis
- Unique non-English content, along with detailed indexing of study types, trial phases, patient populations etc.
- **The Cochrane Collaboration** recommends searching in Embase

Medical Devices

- Information found in the biomedical literature strengthens every stage of the medical device life cycle, from concept and design through clinical trials to release and reimbursement. Regulatory authorities require medical device companies to screen the biomedical literature during the approval process and for post-market surveillance. Embase includes unique medical device information and indexing, making it an indispensable resource.

PICO

- The **PICO process** is a technique used in evidence based practice to frame and answer a clinical or health care related question. The PICO framework is also used to develop literature search strategies. The PICO acronym stands for
 - P - patient, problem or population
 - I - intervention
 - C - comparison, control or comparator
 - O - outcomes

How do I build searches using the *PICO* framework?

- Identify how each part of the clinical question to be answered applies to each element of the *PICO* framework and then identify the best terms to use to retrieve all relevant data:

P - Patient or Problem or Population

The aspects of this concept may include the disease or condition, stage, severity, demographic characteristics and other clinically relevant factors.

I - Intervention

The aspects of this concept may include type of intervention, drug dose and duration, timing and route of administration.

C - Comparison or Control

The aspects of this concept may include absence of risk or treatment, placebo or alternative therapy.

O - Outcome

The aspects of this concept may include risk, mortality, morbidity, quality of life and utilities. Sometimes this component is not searchable and/or it is advisable to ignore it in the search process.

Example

- A 28-year-old male presents with recurrent furunculosis (skin boils) for past 8 months; these episodes have been treated with drainage and several courses of antibiotics but keep recurring. He asks if recurrences can be prevented. To convert this to an answerable question, use the P I C O method as follows :

- **Question:** 'In patients with recurrent furunculosis, do prophylactic antibiotics, compared to no treatment, reduce the recurrence rate?'

- P = patients with recurrent furunculosis
- I = prophylactic antibiotics
- C = no treatment
- O = reduction in recurrence rate of furunculosis

Searching in Embase in 7 way:

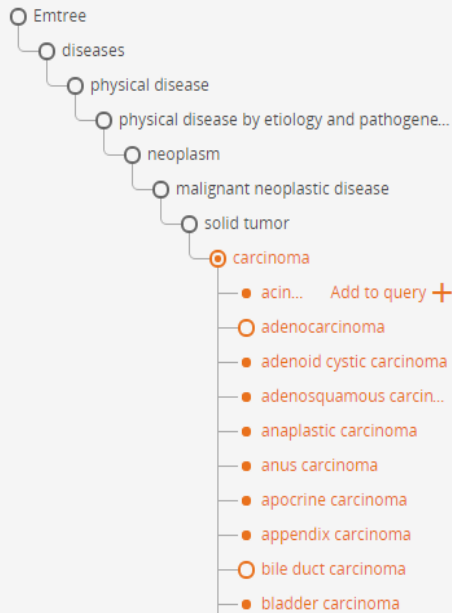
- PICO
- Quick
- Advances
- Drug
- Disease
- Device
- Article

PICO

- in PICO, you must enter the complete the sections of your question in adequate part of PICO form. For better results, use Emtree in this platform. Additionally, you can add or remove any synonyms of your query.

Find best term

neoplasm



▲ More info on term carcinoma

PICO Search

Translate your medical questions into search queries

Population

carcinoma /br ▾

Intervention

Comparison

Outcome

Reset query

Search and select your query using Emtree for subject searching

Info

Clear field

Clear field

Clear field

Clear field

Show 1,080,444 results >

Feedback

8 synonyms

for malignant neoplastic disease

- malignant neoplasia
- malignant neoplasm
- malignant neoplastic disease
- malignant tumor
- malignant tumour
- neoplasia, malignant
- tumor, malignant
- tumour, malignant



PICO Search

Translate your medical questions into search queries

Population

malignant neoplastic disease /br + 8 synonyms:all

Intervention

Comparison

Outcome

Add or remove synonyms of your query, if you want!

Reset query

Show 1,906,824 results

Quick Search

Embase®

Search ▾ Browse ▾ Results Tools ▾ Register Login 🔔(1) ☰

Quick Search

e.g. 'cancer gene therapy'

[Search >](#) [Options ^](#)

Search options

Search as broadly as possible (map, explode, search also as free text in all fields)

Publication Years from:

2015 ▾ to 2016 ▾

This is quick search! In this part you can apply only two limitation:

1. Search as broadly as possible (map, explode, search also as free text in all fields)
2. Publication date

LIFE SCIENCE SOLUTIONS

Professional Services™
Pathway Studio™
Reaxys® Medicinal Chemistry
Reaxys®
PharmaPendium®
Embase™
QUOSA™

SUPPORT

Help
Webinars
Guides and videos
Contact Support Team

PRODUCT

About Embase
News
Upcoming webinars
Terms and Conditions
Privacy Policy

NEWSLETTER

Subscribe to the quarterly Embase newsletter to receive the latest updates, search tips and Embase conferences.

[Subscribe >](#)

Advanced search

Advanced Search

[Search >](#) [Mapping ^](#) [Date ▾](#) [Sources ▾](#) [Fields ▾](#) [Quick limits ▾](#) [EBM ▾](#) [Pub. types ▾](#) [Languages ▾](#) [Gender ▾](#) [Age ▾](#) [Animal ▾](#) [Search tips ▾](#)

Embase mapping options [Clear page selections](#) [Collapse](#)

Map to preferred term in Emtree Limit to terms indexed in article as 'major focus'

Search also as free text in all fields

Explode using narrower Emtree terms

Search as broadly as possible

Limit your query using Maps, Date, Source, Field, and more...

LIFE SCIENCE SOLUTIONS

- Professional Services™
- Pathway Studio™
- Reaxys® Medicinal Chemistry
- Reaxys®
- PharmaPendium®
- Embase™
- QUOSA™

SUPPORT

- Help
- Webinars
- Guides and videos
- Contact Support Team

PRODUCT

- About Embase
- News
- Upcoming webinars
- Terms and Conditions
- Privacy Policy

NEWSLETTER

Subscribe to the quarterly Embase newsletter to receive the latest updates, search tips and Embase conferences.



[Subscribe >](#)

Drug search

Embase®

Drug Search

Search your favorites drug using appropriate limitations

Register Login  (1) 

Search >

Mapping ^

Date v

Sources v

Drug fields v

Drug subheadings v

Routes v

Quick limits v

EBM v

Pub. types v

Languages v

Search tips v

Embase mapping options

Clear page selections

Collapse

- Map to preferred term in Emtree
 - Search also as free text in all fields
 - Explode using narrower Emtree terms
 - Search as broadly as possible
- Limit to terms indexed in article as 'major focus'

Feedback

LIFE SCIENCE SOLUTIONS

Professional Services™
Pathway Studio™
Reaxys® Medicinal Chemistry
Reaxys®
PharmaPendium®
Embase™
QUOSA™

SUPPORT

Help
Webinars
Guides and videos
Contact Support Team

PRODUCT

About Embase
News
Upcoming webinars
Terms and Conditions
Privacy Policy

NEWSLETTER

Subscribe to the quarterly Embase newsletter to receive the latest updates, search tips and Embase conferences.

Subscribe >

Disease search

Embase®

Disease Search

Search your favorites disease using appropriate limitations

Register Login (1)

[Search >](#) [Mapping ^](#) [Date v](#) [Sources v](#) [Fields v](#) [Disease subheadings v](#) [Quick limits v](#) [EBM v](#) [Pub. types v](#) [Languages v](#) [Search tips v](#)

Embase mapping options [Clear page selections](#) [Collapse](#)

Map to preferred term in Emtree Limit to terms indexed in article as 'major focus'

Search also as free text in all fields

Explode using narrower Emtree terms

Search as broadly as possible

Feedback

LIFE SCIENCE SOLUTIONS

Professional Services™
Pathway Studio™
Reaxys® Medicinal Chemistry
Reaxys®
PharmaPendium®
Embase™
QUICK™

SUPPORT

Help
Webinars
Guides and videos
Contact Support Team

PRODUCT

About Embase
News
Upcoming webinars
Terms and Conditions
Privacy Policy

NEWSLETTER

Subscribe to the quarterly Embase newsletter to receive the latest updates, search tips and Embase conferences.

[Subscribe >](#)

Device search

Embase®

Search your favorites Devices using appropriate limitations

Register Login (1)

Device Search

[Search >](#) [Mapping ^](#) [Date v](#) [Sources v](#) [Device fields v](#) [Device subheadings v](#) [Quick limits v](#) [EBM v](#) [Pub. types v](#) [Languages v](#) [Search tips v](#)

Embase mapping options [Clear page selections](#) [Collapse](#)

Map to preferred term in Emtree Limit to terms indexed in article as 'major focus'

Search also as free text in all fields

Explode using narrower Emtree terms

Search as broadly as possible

Feedback

LIFE SCIENCE SOLUTIONS

Professional Services™
Pathway Studio™
Reaxys® Medicinal Chemistry
Reaxys®
PharmaPendium®
Embase™
QUOSA™

SUPPORT

Help
Webinars
Guides and videos
Contact Support Team

PRODUCT

About Embase
News
Upcoming webinars
Terms and Conditions
Privacy Policy

NEWSLETTER

Subscribe to the quarterly Embase newsletter to receive the latest updates, search tips and Embase conferences.



[Subscribe >](#)

Article search

Embase®

Article Search

Search your favorites Devices using appropriate limitations like article title, author name and more

Register Login  (1) 

Article title:	ISSN:
<input type="text"/>	<input type="text"/>
Author Name:	CODEN: <small>This is only available for titles added before 2005</small>
<input type="text"/>	<input type="text"/>
Journal Title: <input checked="" type="checkbox"/> Exact	Volume:
<input type="text"/>	<input type="text"/>
Abbreviated Journal Title: <input checked="" type="checkbox"/> Exact	Issue:
<input type="text"/>	<input type="text"/>
<input type="checkbox"/> Publication Years from:	First page:
2015 <input type="text"/> to 2016 <input type="text"/>	<input type="text"/>
<input type="button" value="Search >"/>	

Feedback

LIFE SCIENCE SOLUTIONS

Professional Services™
Pathway Studio™
Reaxys® Medicinal Chemistry
Reaxys®
PharmaPendium®
Embase™

SUPPORT

Help
Webinars
Guides and videos
Contact Support Team

PRODUCT

About Embase
News
Upcoming webinars
Terms and Conditions
Privacy Policy

NEWSLETTER

Subscribe to the quarterly Embase newsletter to receive the latest updates, search tips and Embase conferences.

Browse Emtree

Embase® Search **Browse** Results Tools Register Login (1)

Browse Emtree

Query Builder ▼
Build a multi-term search query

Find Term **Browse by Facet**

Type word or phrase (without quotes)

Find Term >

Browse by Facet displays the top fifteen levels (facets) of the Emtree subject hierarchy. Each facet represents a broad category of subjects (anatomy, organisms, drugs/chemicals, diseases, medical...)

Feedback

LIFE SCIENCE SOLUTIONS

- Professional Services™
- Pathway Studio™
- Reaxys® Medicinal Chemistry
- Reaxys®
- PharmaPendium®
- Embase™
- QUOSA™

SUPPORT

- Help
- Webinars
- Guides and videos
- Contact Support Team

About Embase
News
Upcoming webinars
Terms and Conditions
Privacy Policy

Subscribe to the quarterly Embase newsletter to receive the latest updates, search tips and Embase conferences.

Subscribe >

ELSEVIER

© 2015 Reed Elsevier Properties SA. All rights reserved.

Windows taskbar: 12:13, ۱۳/۰۶/۲۰۱۶

Browse Journals

Browse Journals

Request aborted!

The journals are listed alphabetically by title. Select the letter of the alphabet to go to the list of journals starting with that letter

LIFE SCIENCE SOLUTIONS

Professional Services™
Pathway Studio™
Reaxys® Medicinal Chemistry
Reaxys®
PharmaPendium®
Embase™
QUOSA™

SUPPORT

Help
Webinars
Guides and videos
Contact Support Team

PRODUCT

About Embase
News
Upcoming webinars
Terms and Conditions
Privacy Policy

NEWSLETTER

Subscribe to the quarterly Embase newsletter to receive the latest updates, search tips and Embase conferences.

Subscribe >

Browse Author

Find Author

[Find author >](#)

Find Author lets you go through the list of authors with a given name and/or initials and search for publications by those authors. Enter a family name or family name with initials into the search...

LIFE SCIENCE SOLUTIONS

- Professional Services™
- Pathway Studio™
- Reaxys® Medicinal Chemistry
- Reaxys®
- PharmaPendium®
- Embase™
- QUOSA™

SUPPORT

- Help
- Webinars
- Guides and videos
- Contact Support Team

PRODUCT

- About Embase
- News
- Upcoming webinars
- Terms and Conditions
- Privacy Policy

NEWSLETTER

Subscribe to the quarterly Embase newsletter to receive the latest updates, search tips and Embase conferences.

[Subscribe >](#)



□ Thank you

□ Contact me:

□ Mohammadi.msd84@gmail.com