

## Embase introduction Key features & Search examples

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## Training goals

- What is Embase?
- What scientific literatures are covered by Embase?
- 4 search examples to guide you through the most common search interfaces
  - Quick search topic search
  - PICO Evidence based practice
  - PV wizard Pharmacovigilance
  - Medical Devices Adverse effect literature monitor
- Benefits of searching in Embase
  - Comprehensive
  - Easy to use
  - Save you time



### What is Embase

Embase is a biomedical database that focuses on diseases, drugs and pharmacology, medical devices, clinical medicine, and life science relative disciplines

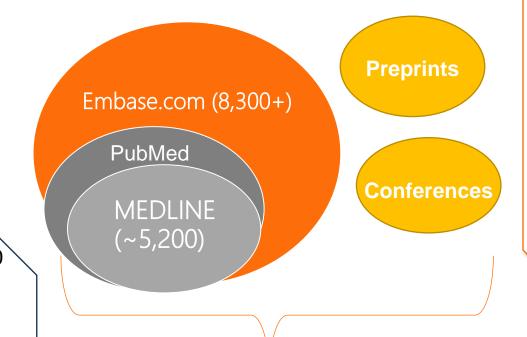
> Embase Indexing Diseases 질병 Drugs약제, Devices장치 and other Major focus in articles

- For clinical professionals, they like to find relevant papers more easily without using complex search terms
- For systematic review or meta-analysis researchers, they need to search more than one database.



### **Embase Coverage**

- Journals, research trends from conferences and preprint in one place



- Embase unique content ~
   2,900 titles
- ~11,000 international conferences covered
- Two most popular preprint databases for research trends



MEDLINE Core content ~5200 titles



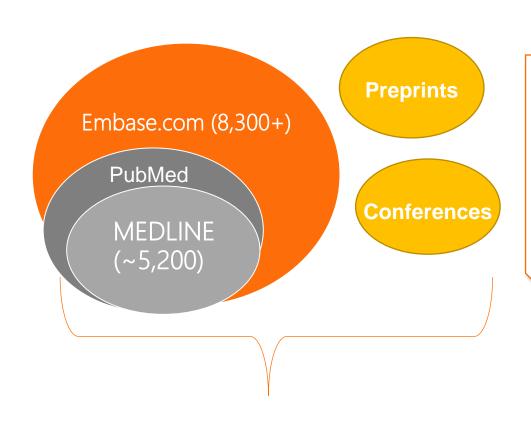
PubMed is a free search interface for MEDLINE content and provided some free full text





## **Embase Coverage**

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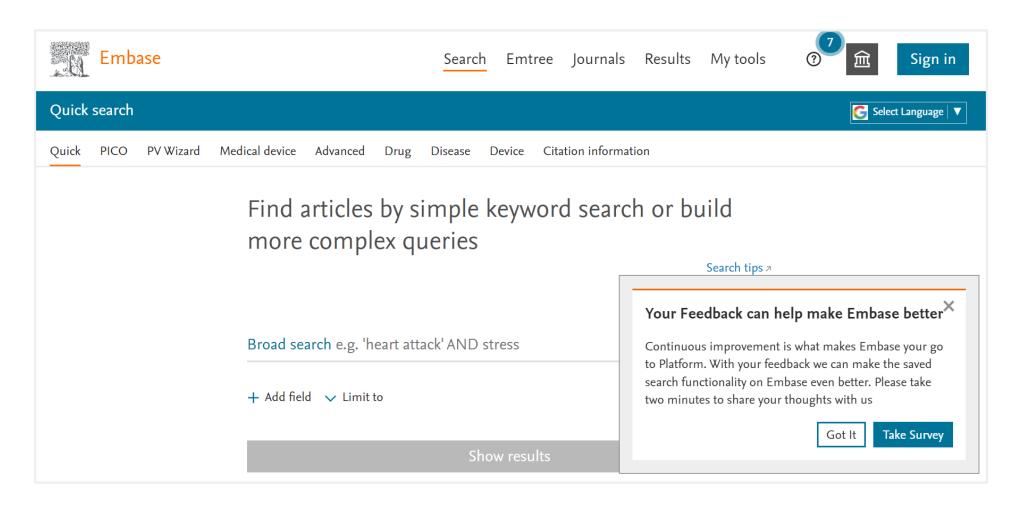
- Embase unique content ~2,900 titles
- ~11,000 international conferences covered
- Two most popular preprint databases for research trends





### How to get access to Embase?

- Make sure you are under authorized IP range (university internet)
- Connect to: www.embase.com



#### **Embase Interface Tour** Dictionary search results Filters Embase Journals Results My tools ? Sign in Search Emtree 4 advance search Quick G Select Language ▼ Ouick PICO PV Wizard Medical device Advanced Drug Disease Device Citation information Manage your search results Find articles by simple keyword search or build Store Set alert more complex queries Basic search: For general topic **Export** Search tips search PICO: Evidence Based practice PV: Pharmacovigilance Broad search e.g. 'heart attack' AND stress Medical device + Add field \( \subseteq \text{Limit to} \) Reset form Show results Display full query

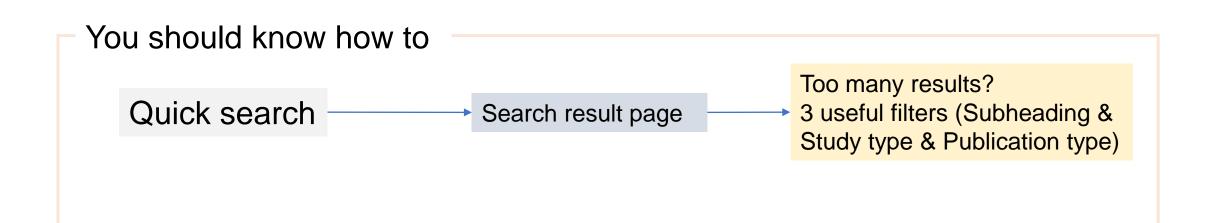
## Example 1 – Topic search

As a student, I want to have a basic understanding of **dementia** and to learn current **treatment options** from scientific literature. It would be best if there is a **systematic review** to help me understand the details more quickly.

Disease: Dementia (백치)

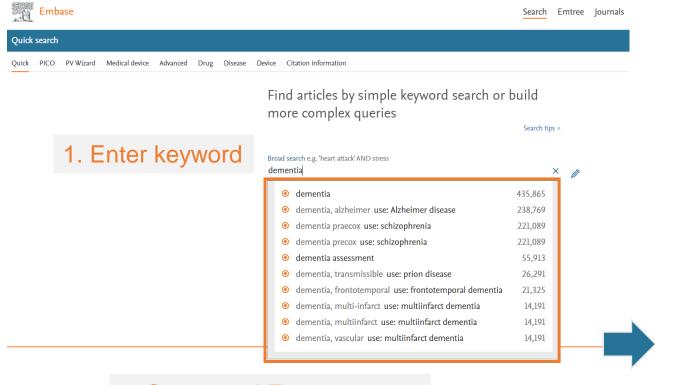
Topic: Treatment options (치료 옵션)

Study type: Systematic review (체계적인 검토)



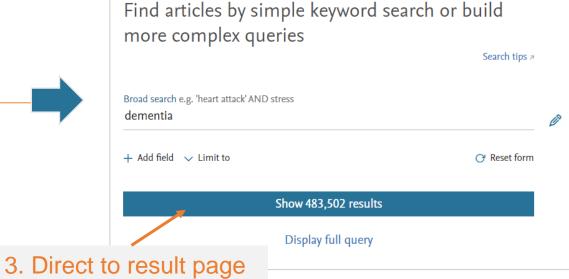
### **Quick Search**

Example – systematic review of dementia's treatment options

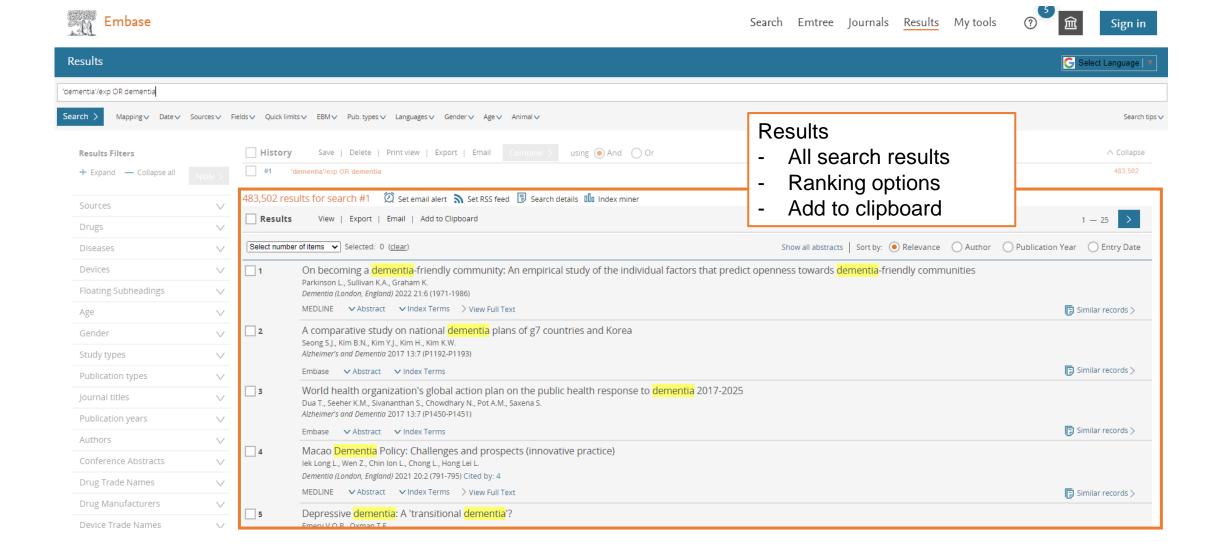


2. Suggested Emtree terms \_

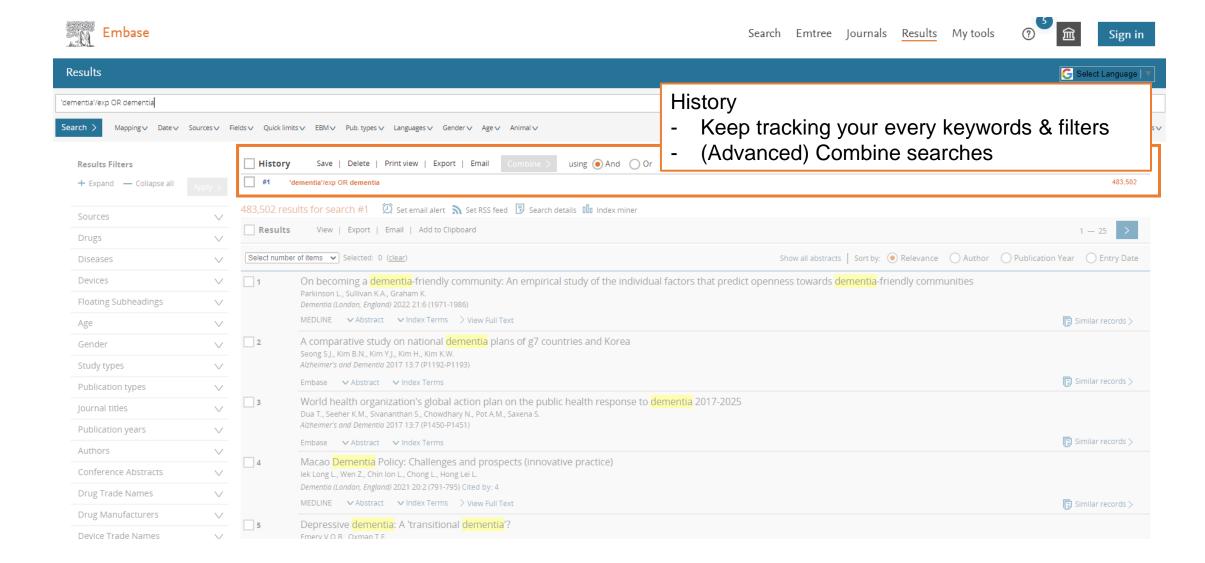
→ Better search results



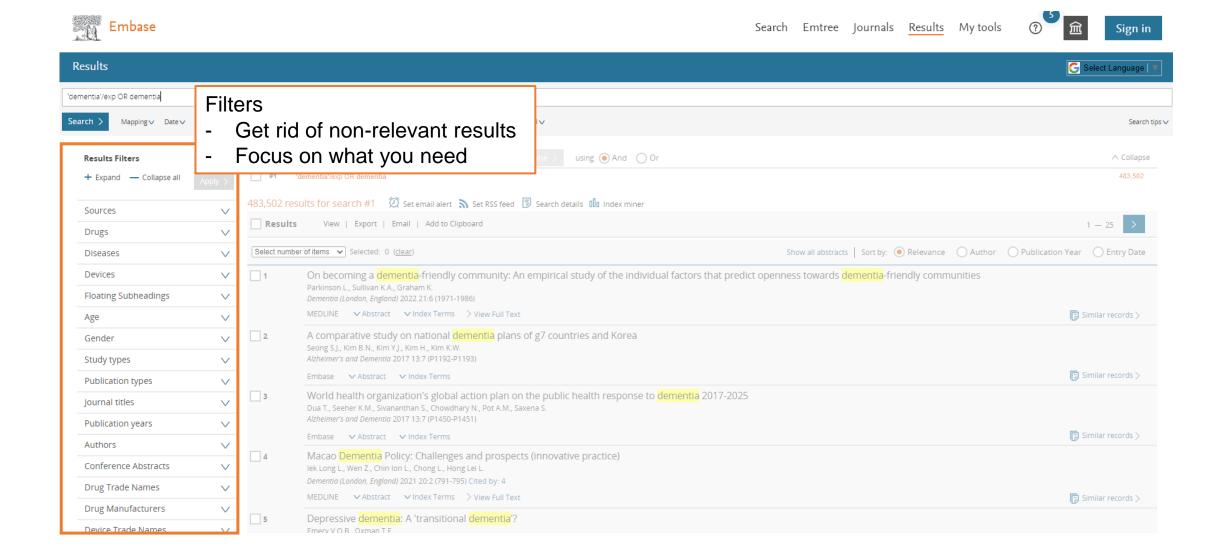
### Results page – Search results



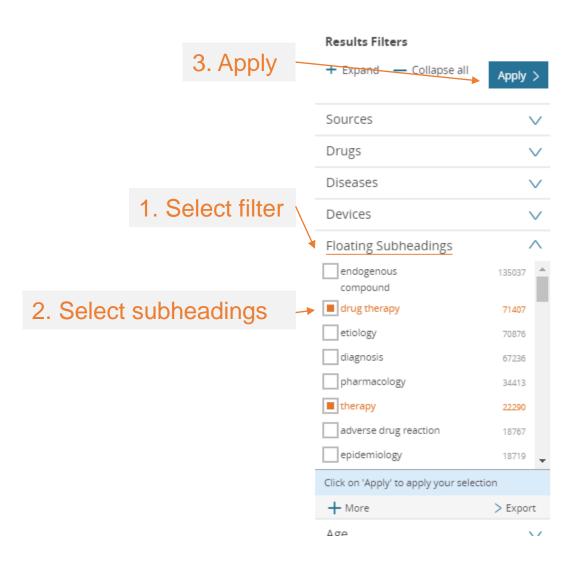
### Results page – History Area



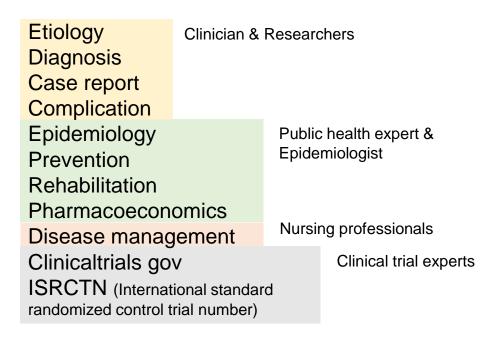
### Results page – Results Filters



### Results filters – Floating Subheadings

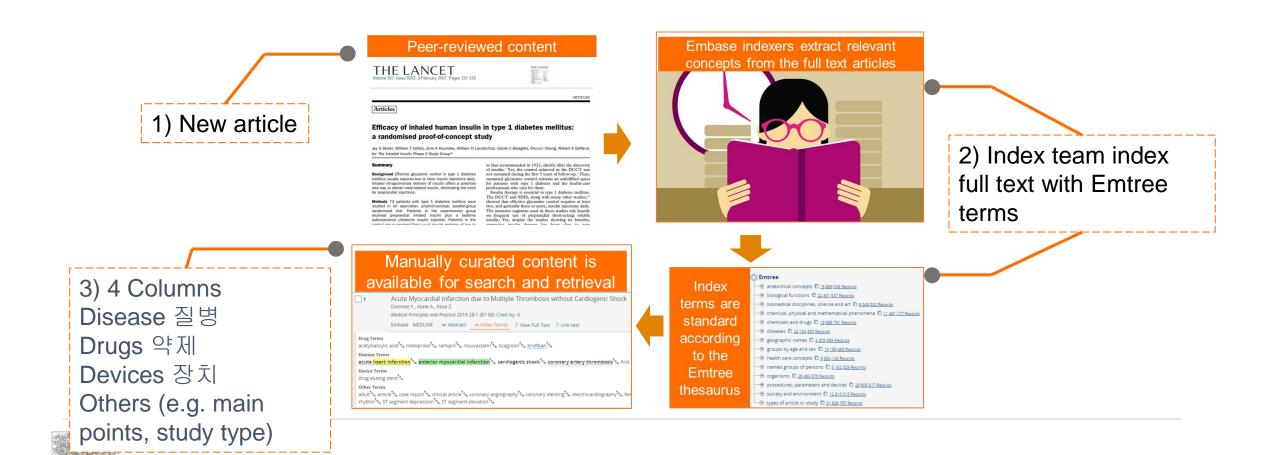


#### Here are hot subheadings you can explore:

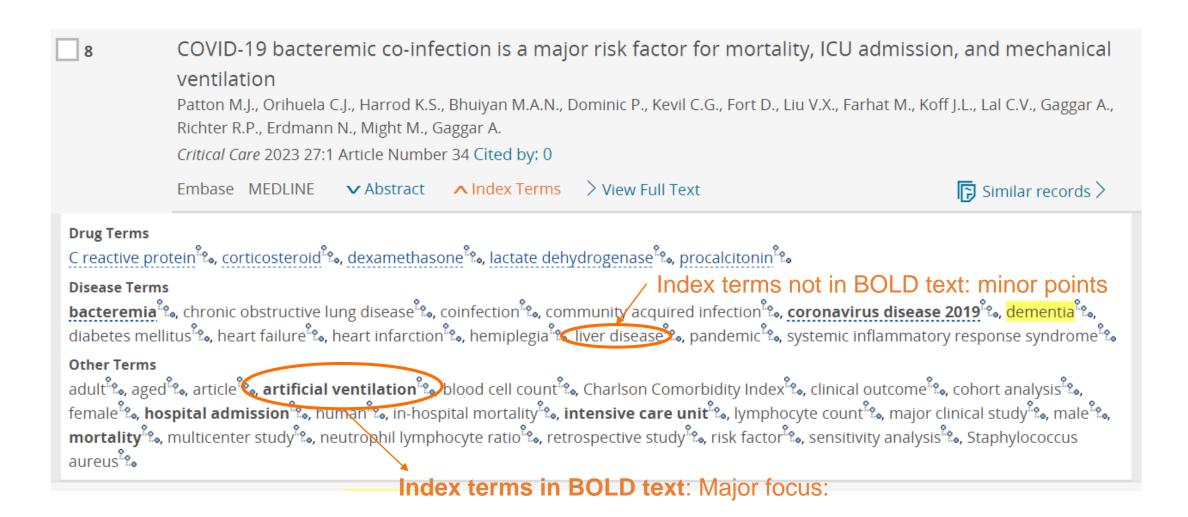


### **Embase indexing**

Embase use Emtree for indexing similar to MeSH term in MEDLINE



### Embase index terms help you understand the article



### Emtree VS MeSH (Indexing)

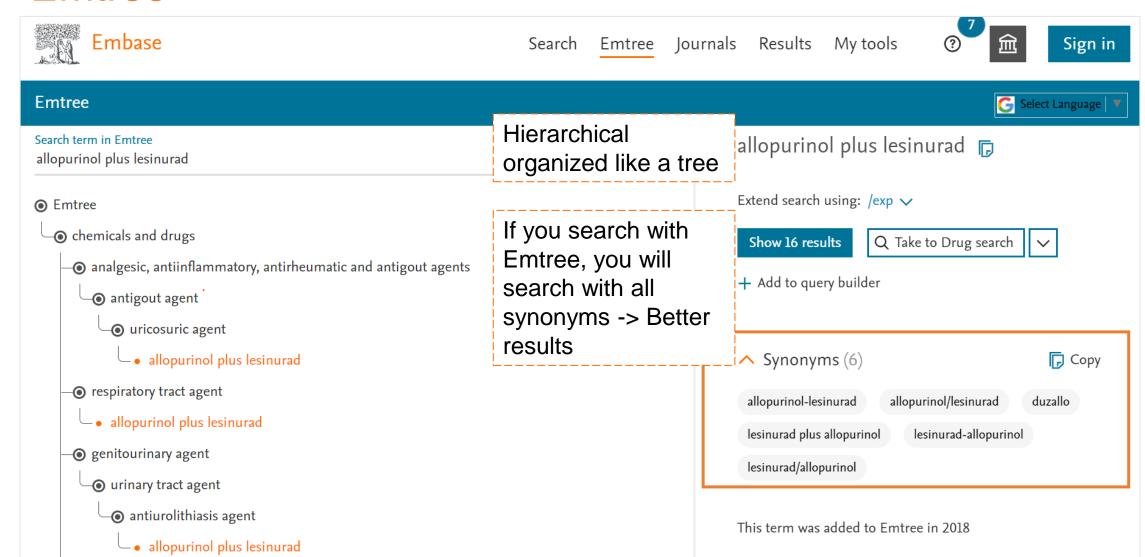
		Emtree (Embase)	MeSH (MEDLINE)
Encl. perse	# of Terms	<ul> <li>92,278 preferred terms (in 2022)</li> <li>over 460,000 synonyms, including all MeSH terms (in 2022)</li> </ul>	<ul><li>29,917 descriptors (headings)</li><li>270,000+ supplementary concept records</li></ul>
	Subheadings	<ul> <li>&gt;100 subheadings including:</li> <li>19 drug subheadings</li> <li>47 routes of drug administration</li> <li>14 disease subheadings</li> <li>4 device subheadings</li> <li>21 PV related subheadings</li> </ul>	76 subheadings*
End Detre	Medical Device Trade name and Manufactures	<ul><li>13,000+ trade names</li><li>5500 GMDN names</li><li>4000+ manufacturers</li></ul>	None
	No. of terms per article	<ul><li>3–4 major terms</li><li>up to 50 minor terms</li></ul>	<ul><li> 3 major terms</li><li> up to 15 minor terms</li></ul>
The petre	Update	3 times per year (Including most current drugs, diseases, organisms and procedures, with back posting of older records)	Once per year with re-indexing

Deep indexing in Embase: the full article is indexed with Emtree, covering all main points and significant minor points. This facilitates consistent and comprehensive retrieval of information from Embase.

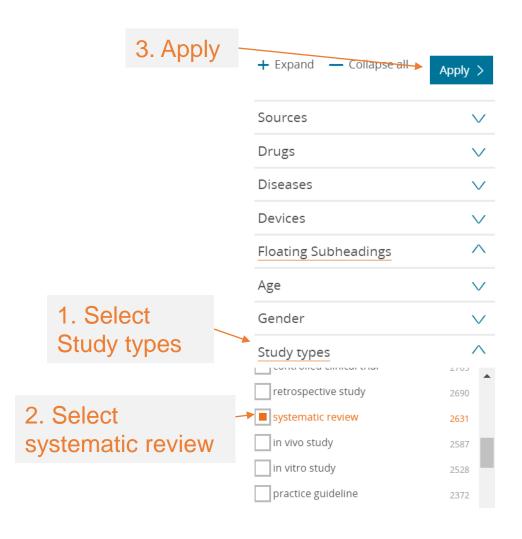
\*Source: Subheadings (qualifiers) (nih.gov)



#### **Emtree**



### Results filters – Study type

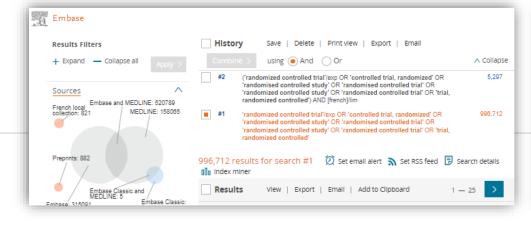


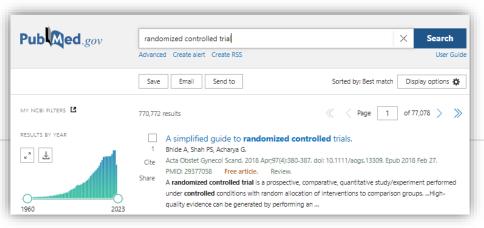
Here are hot study types you can explore:

- Systematic review
- Questionnaires
- Meta-analysis
- Multicenter study
- Case report
- Clinical trials

### Embase covers more randomized control trials

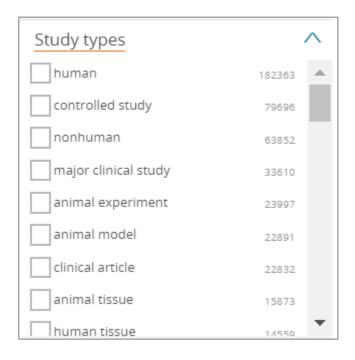
Language	Embase.com	MEDLINE (PubMed)	How much more?	
English	997K	770K	+29.5%	
French	5.3K	4.8K	+10.4%	
Chinese	17K	10.6K	+60.4%	
Spanish	4.5K	3.8K	+18.4%	
German	9.8K	10.5K	-6.7%	
Japanese	2.7K	2.2K	+22.7%	
Portuguese	1.9K	1.3K	+46.2%	





#### Results filters

Study types ① - Supplementary data



Study types explains:

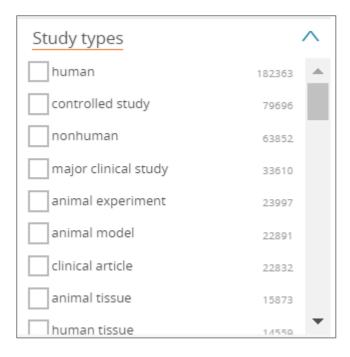
Major clinical study: <u>Original study</u> with patient **>50 peoples** clinical article: Original study with patient **<50 peoples** 

human experiment: Original item reporting experiments on humans (study subjects are not patients) (e.g. psychological tests and pharmacokinetic studies)

Animal experiment: Used for original studies using whole animals

#### **Results filters**

Study types ② - Supplementary data



Clinical Trial: Original and prospective clinical trial, comparing one or multiple interventions (including human or veterinary study animal)

Controlled clinical Trial: As above but contains a control group, untreated group or standard intervention as control

Phase 1~4 clinical Trial: Original drug clinical trials

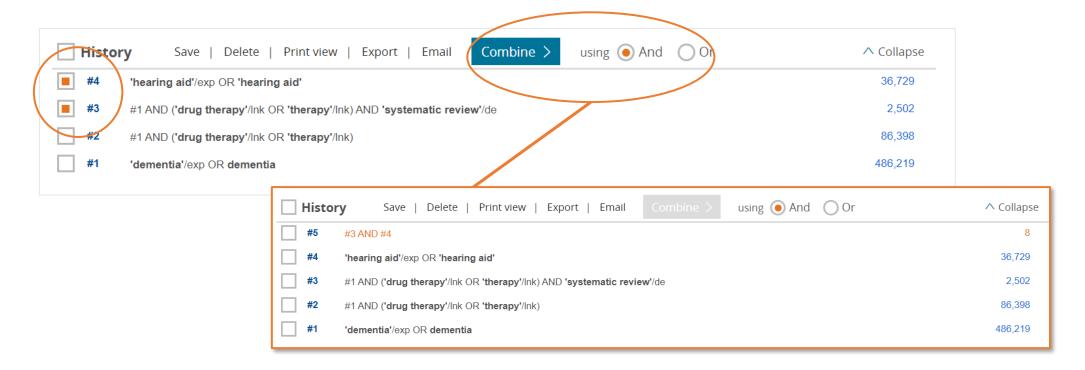
Phase 1~4 clinical Trial topic: Discussions about original drug clinical trials

Here is some more details information about indexing method <a href="https://www.elsevier.com/\_\_data/assets/pdf\_file/0010/901693/Embase-lndexing-guide-2021.pdf">https://www.elsevier.com/\_\_data/assets/pdf\_file/0010/901693/Embase-lndexing-guide-2021.pdf</a>

## Combine multiple keywords

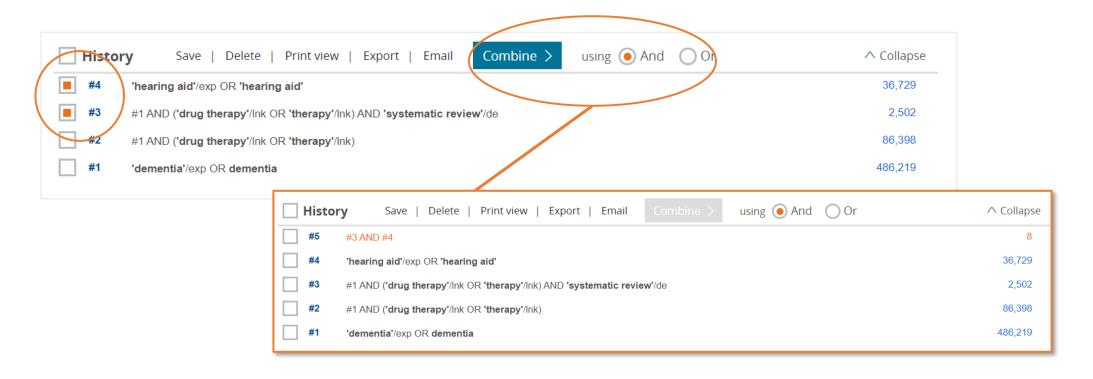
I want to extent the search results and combine with hearing aids 보청기

AND: Hearing aid+Dementia+ Therapy+Systematic reviews



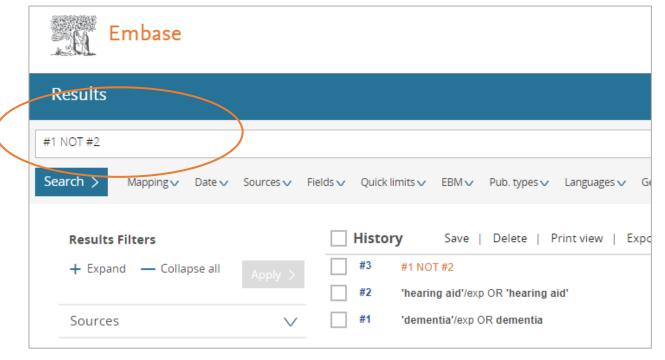
### Combine multiple search results

AND: Hearing aid+Dementia+ Therapy+Systematic reviews



## Combine NOT operator for multiple search results

Exclude Hearing aid in Dementia search results



You can manually use NOT operator to exclude search results

#1 NOT #2 #1 NOT 'hearing aid'

Histor	y Save   Delete   Print view   Export   Email	Combine >	using   And Or	^ Collapse
#3	#1 NOT #2			503,103
#2	'hearing aid'/exp OR 'hearing aid'			37,838
#1	'dementia'/exp OR dementia			503,578

## Example 2 – PICO search

I want to search scientific articles providing evidences comparing the treatment results between Hyaluronic acid (히알루론산) and Platelet Rich Plasma; PRP (혈소판 풍부 혈장) in osteoarthritis patients.

Because I have done my search in Pubmed. I want to focus on Embase unique contents. And if there was Cochrane review. It is important as well.

You should know how to

PICO Search Find Cochrane review Filter: Source
Filter: EBM (Evidence based medicine)

### What is PICO search

Used by Evidence based practice

PICO – Population, Patient, Problem



**PICO - Comparison** 



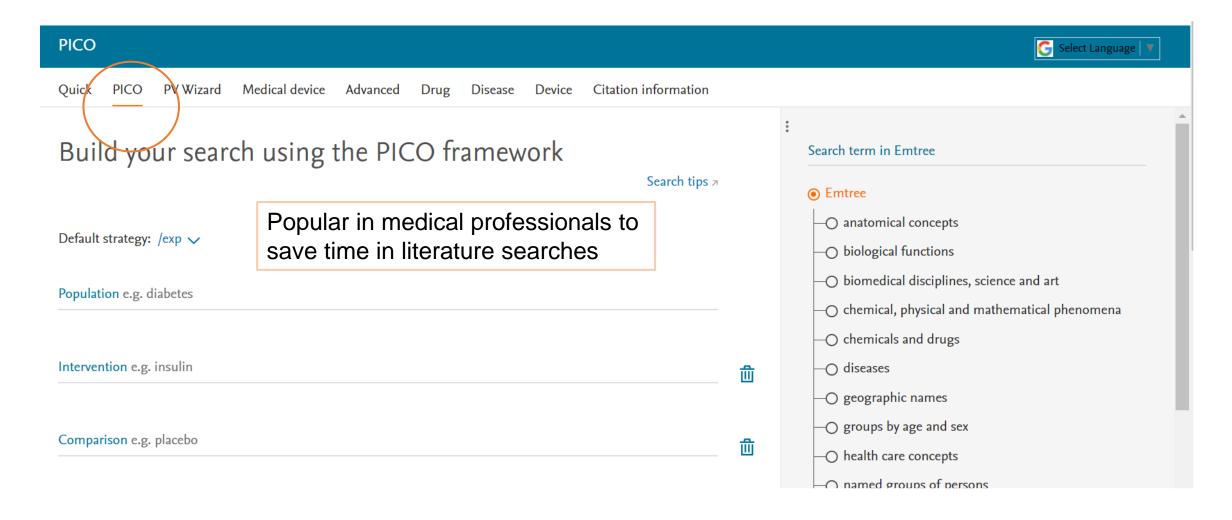
**PICO - Intervention** 



**PICO - Outcome** 



### PICO search



# Example 2 – PICO search

I want to search scientific articles providing evidences comparing the treatment results between Hyaluronic acid (히알루론산) and Platelet Rich Plasma; PRP (혈소판 풍부 혈장) in osteoarthritis patients (골관절염).

Because I have done my search in Pubmed. I want to focus on Embase unique contents. And if there was Cochrane review. It is important as well.

Problem	Osteoarthritis patients (골관절염)
Intervention	Hyaluronic acid (히알루론산)
Compare	Platelet Rich Plasma (혈소판 풍부 혈장)
Outcome	Treatment effectiveness

<sup>\*</sup>There is no fix way to form PICO framework. You can combine more keyword in each category

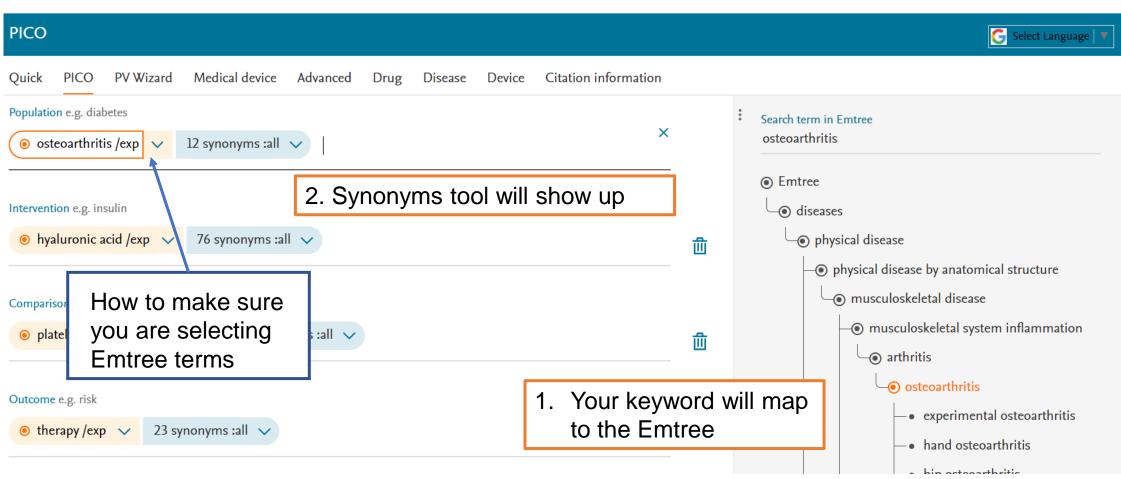
# PICO Search setting



Search Emtree Journals Results My tools







## Examples not selecting Emtree terms

You are searching with Emtree

Population e.g. diabetes

o osteoarthritis /exp 
It's orange box and there will be a synonyms box on the right side

You are searching 「osteoarthritis patient」 as a keyword in titles Abstract and author keyword

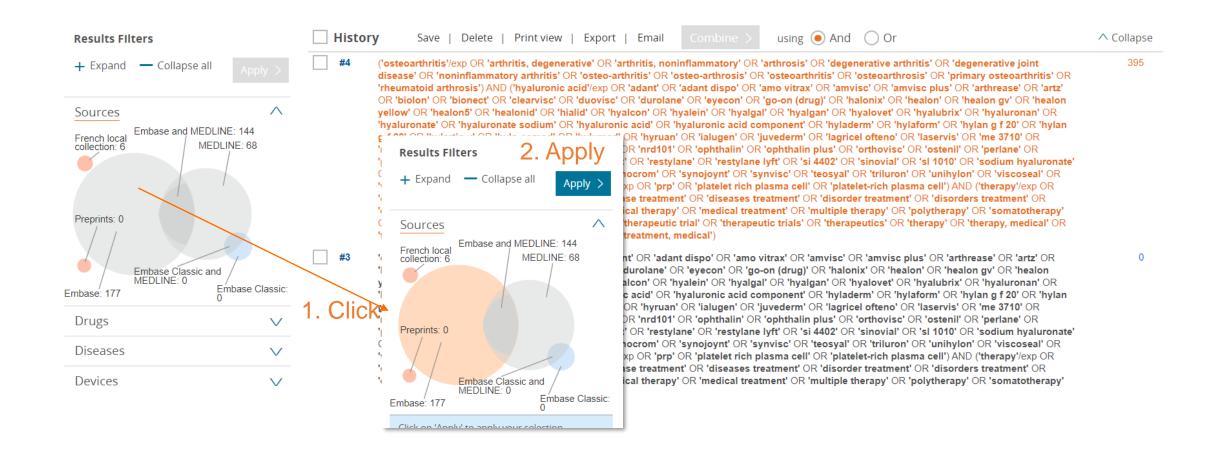
Default strategy: /exp 
Population e.g. diabetes

osteoarthritis patient :all

It's light blue box and no synonyms tool

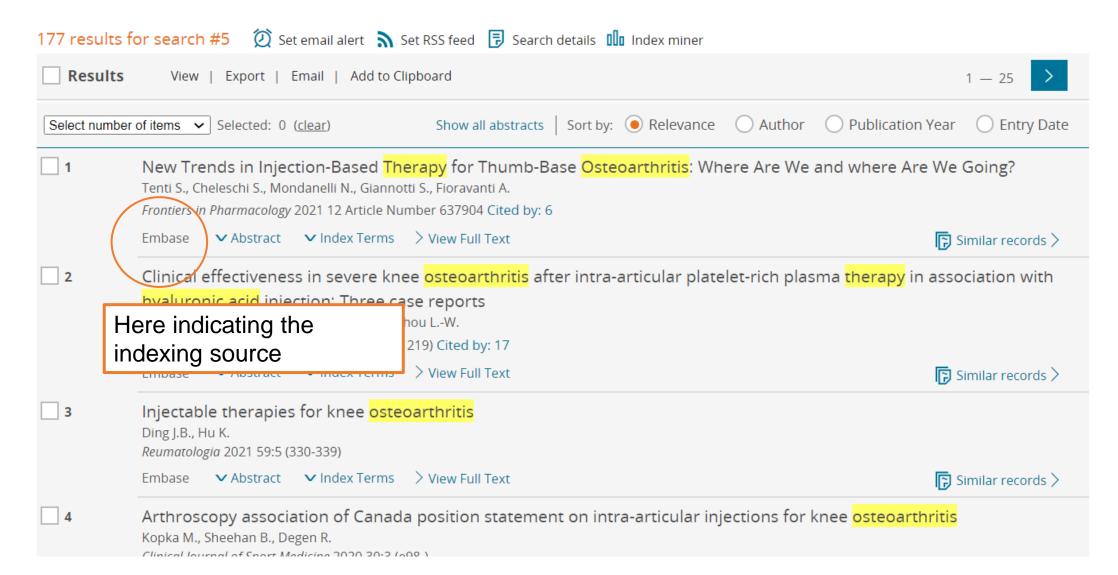
#### **Results filters - Sources**

- Filter the Embase indexing contents



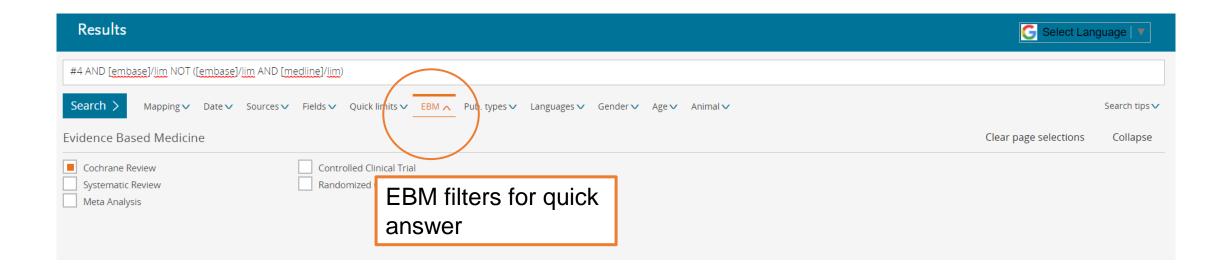
#### **Results filters - Sources**

- Filter the Embase indexing contents



#### Results filters – EBM

- Evidence Based Medicine filters will give you articles with stronger level of evidences



# PICO search Supplementary

### What if I get too many irrelevant search results

Change Emtree from /exp to /mf

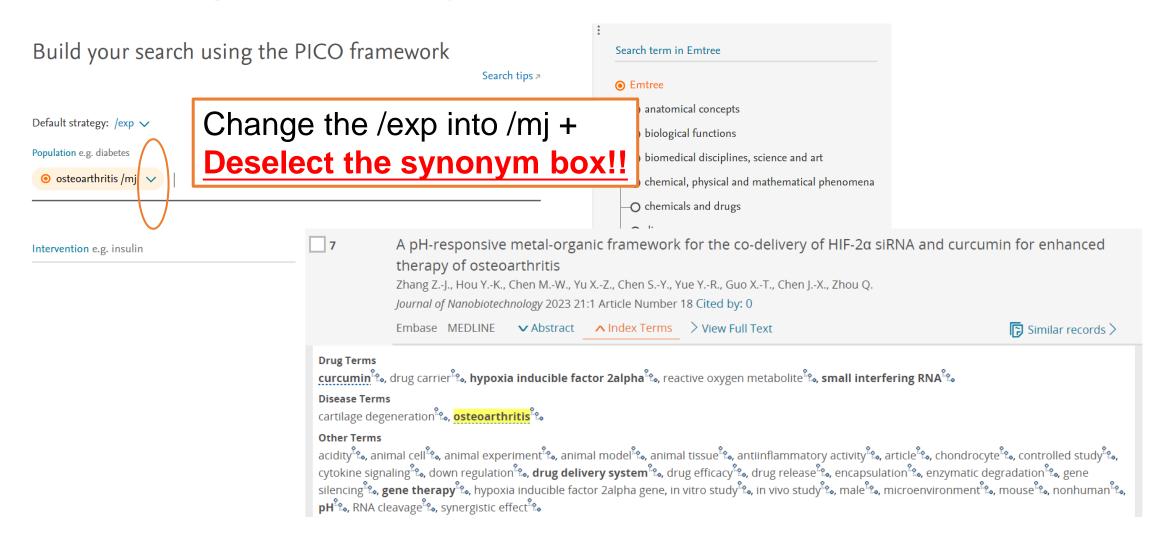
### What if I get 0 results

 Try fill in keyword one by one. And find which keyword is too specific and need to be skipped or explode

#### What if I CANNOT find the Emtree term in PICO search?

- Avoid acronyms and try full name
- Use free text search

### What if I get too many irrelevant search results?



#### What if I CANNOT find the Emtree term in PICO search?

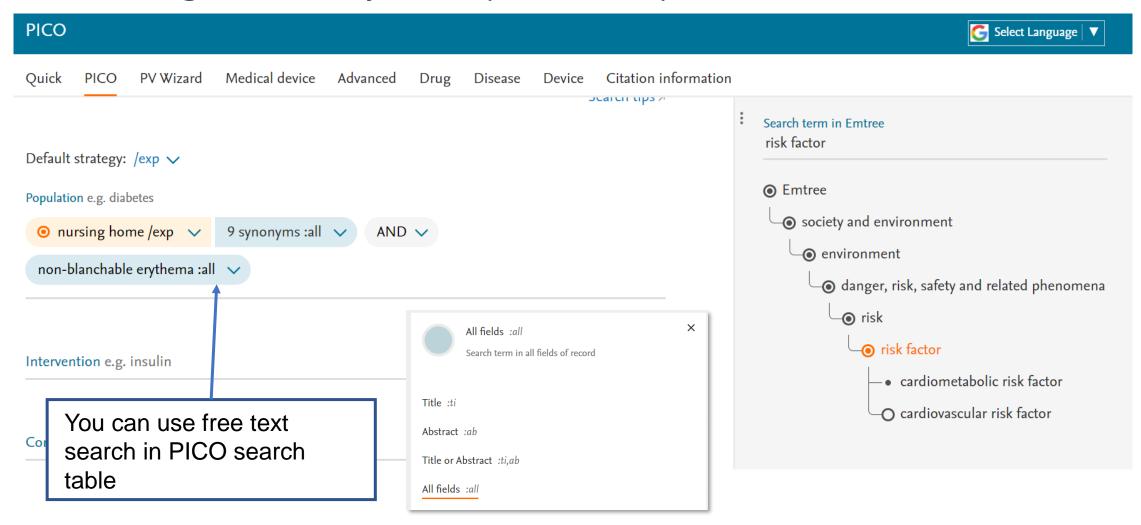
I want to know if 「non-blanchable erythema」 are more likely to develop new pressure ulcers 욕창 of elder patients in nursing home

Problem	Nursing home AND Elder patients
Intervention	Non-blanchable erythema
Compare	
Outcome	Pressure ulcer risk

<sup>\*</sup>There is no fix way to form PICO framework. You can combine more keyword in each category

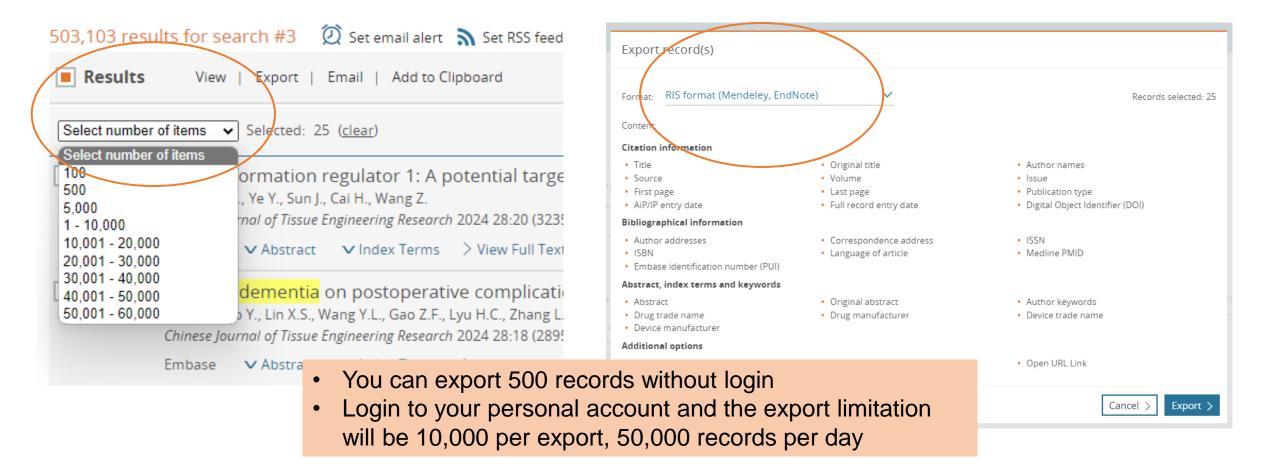
### **PICO Search**

- Searching with acronyms in specific disciplines could lead to no Emtree



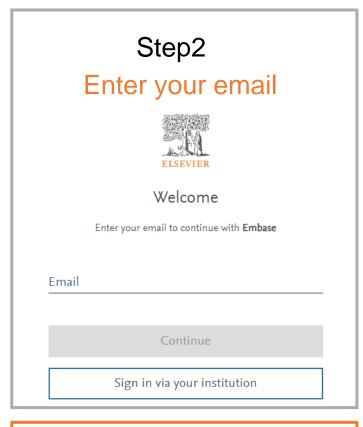
### **Export**

- Select how many search results you like to export before clicking the export bottom

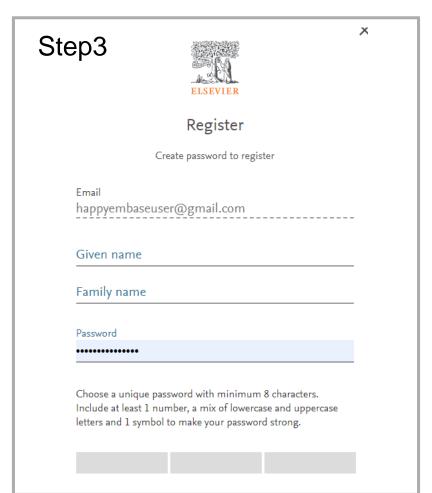


# Create a new personal account in Embase





\* Sign in via institution require Federated service, not a necessary step in personal account. Please consult with library for more info



# Training goals

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- What scientific literatures are covered by Embase?
- 4 search examples to guide you through the most common search interfaces
  - Quick search topic search
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  - Medical Devices Adverse effect literature monitor
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  - Easy to use
  - Save you time





# Thank you

歡迎來信諮詢

r.huang@elsevier.com





# 個人化工具

- My Tools

  ✓ Clipboard

  ✓ Exports

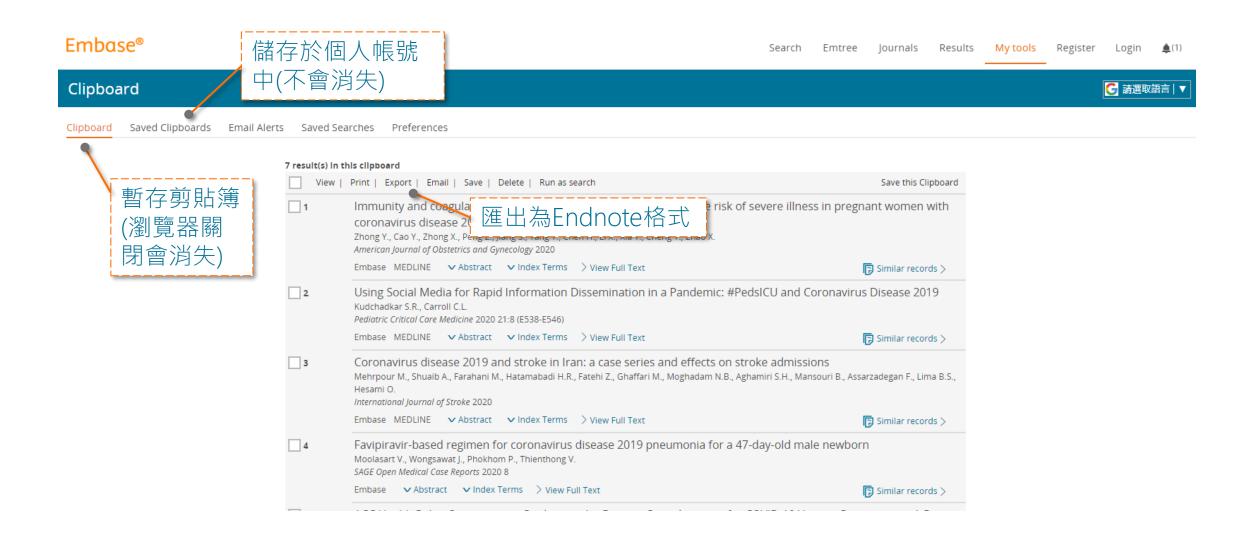
  ✓ Email Alert

### 結果區塊

- 利用剪貼簿暫存感興趣的文章

102,531 results for search #10 🙎 Set email alert 🥻 Set RSS feed 🗒 Search details 💵 Index miner							
Results	View   Print   Export   Email   Add to Clipboard	加到剪貼簿		1 — 25			
Select number	of items  ✔ Selected: 4 ( <u>clear</u> )	Show all abstracts   Sort by:	Relevance	O Publication Year			
1	COVID-19 Ischemic Strokes as an Emerging Rehabilitation Diaz-Segarra N., Edmond A., Kunac A., Yonclas P.  American journal of physical medicine & rehabilitation 2020 99:10 (876-879) C  MEDLINE			Similar records >			
2	Immunity and coagulation and fibrinolytic processes may Zhong Y., Cao Y., Zhong X., Peng Z., Jiang S., Tang T., Chen H., Li X., Xia Y., Chen American Journal of Obstetrics and Gynecology 2020 Cited by: 1	. •	en with <mark>coronavirus dise</mark>				
	Embase MEDLINE ✓ Abstract ✓ Index Terms > View Full Text			Similar records >			
3	Using Social Media for Rapid Information Dissemination in Kudchadkar S.R., Carroll C.L.  Pediatric Critical Care Medicine 2020 21:8 (E538-E546) Cited by: 6	a Pandemic: #PedsICU and <mark>Coronavirus Disease</mark>	2019				
	Embase MEDLINE    Abstract    Index Terms    View Full Text			Similar records >			
<b>4</b>	Coronavirus disease 2019 and stroke in Iran: a case series and effects on stroke admissions  Mehrpour M., Shuaib A., Farahani M., Hatamabadi H.R., Fatehi Z., Ghaffari M., Moghadam N.B., Aghamiri S.H., Mansouri B., Assarzadegan F., Lima B.S., Hesami O.  International Journal of Stroke 2020 Cited by: 8						
	Embase MEDLINE V Abstract V Index Terms View Full Text			Similar records >			
<b>5</b>	Favipiravir-based regimen for coronavirus disease 2019 pr Moolasart V., Wongsawat J., Phokhom P., Thienthong V. SAGE Open Medical Case Reports 2020 8	eumonia for a 47-day-old male newborn					
	Embase V Abstract V Index Terms > View Full Text			Similar records >			
<u> </u>	Harmonizing Heterogeneous Endpoints in Coronavirus Dis Von Cube M., Grodd M., Wolkewitz M., Hazard D., Wengenmayer T., Canet E Critical Care Medicine 2020 (E11-E10)						

#### 我的工具 > 剪貼簿



### Embase New Identity Management System

- 新身份管理系統
- 自2021六月起, Embase啟用新身份管理系統, 您可以用一組個人帳號, 登入管理Embase、ScienceDirect、Scopus資料庫。
- 若您已經在上述資料庫申請過個人帳號,請先登入後再使用Embase以啟用 所有功能(書目匯出)
- 若您尚無任何Elsevier資料庫個人帳號,請參考下頁指示進行註冊。(需位於學校/醫院授權IP網址內才可進行註冊)
- Embase持續遭受網路盜用、違反合約輸出超大量資料並影響資料庫的運行, 故於2021六月起, 書目資料匯出匯出上限為500筆, 如需匯出大量資料, 需先登入個人帳號,每次匯出以10,000筆為限。

#### 如何註冊Embase帳號?



3. 若您輸入的Email帳號 不在Elsevier資料庫中 會自動產出註冊頁面請設 定密碼



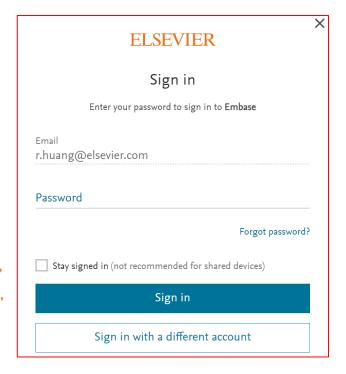


4. 若您輸入的Email帳號在Elsevier資料庫中 (曾用來申請SDOL, Scopus),帳號互通請直接輸入密碼,或按下忘記密碼重設即可

#### 2. 輸入您想要註冊的Email

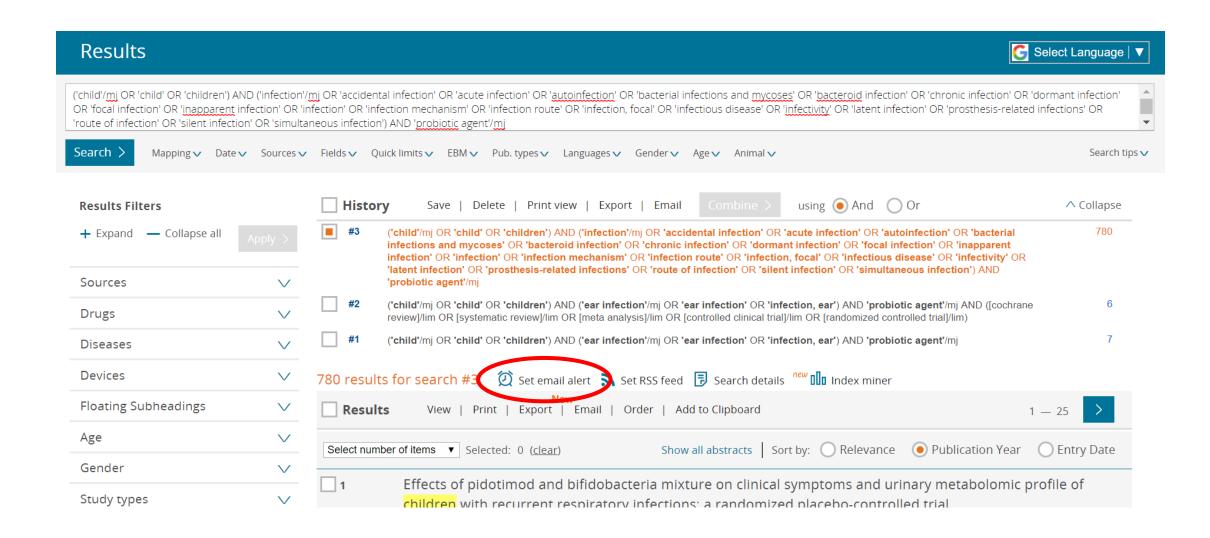
#### 並按下Continue

註Sign in via your institution為Federated登入方式,目前大部分圖書館仍未採用,無法提供登入。

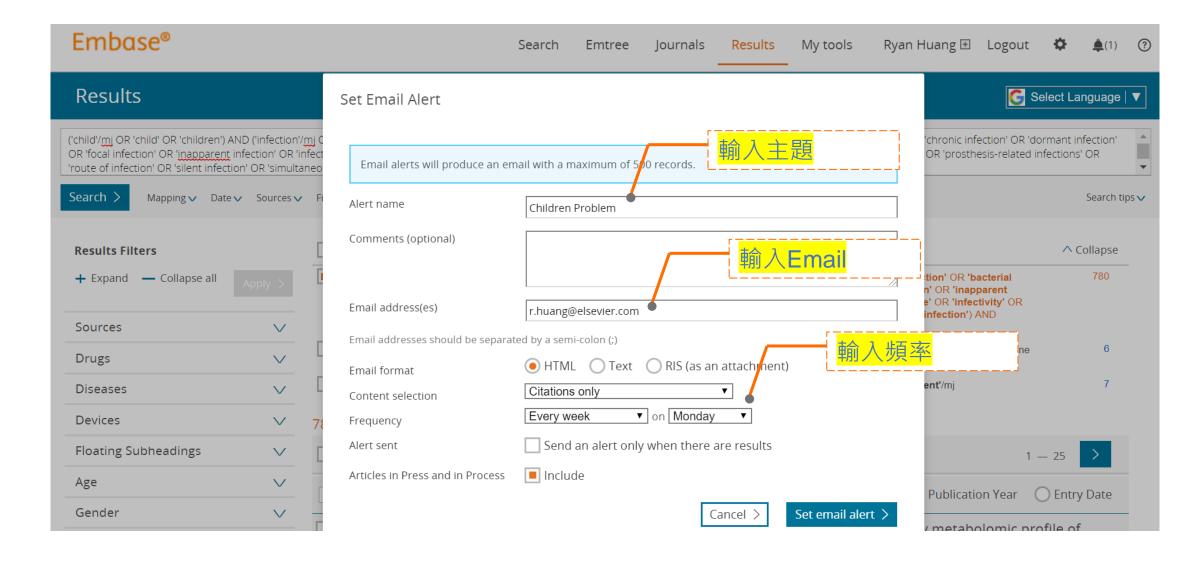


### 郵件提醒被動式搜索文獻

如果您關注一個研究主題,設定EMAIL,主動將符合您搜尋條件的新文章寄給您



### 郵件提醒被動式搜索文獻



# 今日目標

- Embase資料庫的基本認識、檢索優勢。
- 真實的臨床文獻檢索示範(足部治療、護理專業)

#### 學習要點:

挑選文獻的關注主題 - Subheading 使用藥物的過濾工具 - Drugs 篩選Embase特有的文章 - Source 篩選研究方法 - Source 排除灰色文獻 - Publication type 匯出 - Export 增加關鍵字、延伸搜尋 - 上方指令列郵件提醒 - Email Alert 設定PICO搜尋指令如何匯出實證醫學過濾工具 - 上方工具列EBM

#### Embase搜尋的優勢:

選擇Emtree詞彙 - 確保搜尋品質 活用PICO介面節省時間 - 即時調整你 的搜尋策略



# Using Quick Search to start a topic search

身為一個足科醫師,最近有幾個<u>足底筋膜炎</u>的足跟痛患者,諮詢一般藥局販售的**即用型預製矯具**是否依樣有效?

足底筋膜炎 Plantar fasciitis 足部矯具 Orthotic devices

線上示範