



ELSEVIER

EMBASE 기본 검색가이드

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EMBASE 소개

세계적인 전문 학술지에 게재된 광범위하고 신뢰할 수 있는 바이오, 질병 및 약물, 관련 문헌 정보 수록, 임상진행상황 모니터링, 부작용, 독성 등 약물 안정성, 치료법 등에 대한 정보 제공

- ❑ 1947~ 현재까지 international biomedical 문헌정보 제공
(1947~1973년 Embase Classic 별도)
- ❑ EMBASE(1947년-현재)와 MEDLINE(1966년-현재)의 자료가 통합된 Database
- ❑ 8,500가지 이상의 저널 타이틀과 EMBASE 만의 2,800여종 저널 추가 제공 (+5.9m 레코드) http://help.elsevier.com/app/answers/detail/a_id/4658/p/9754/c/9869
- ❑ 출간물, peer-reviewed literature, 출간예정인 아티클, 회의초록
- ❑ Life Science 분야의 Thesaurus Emtree (질병, 약물, 메디컬 장비 등)를 통한 강력한 통합 검색
- ❑ Drugs, Disease, Medical device 부제목/ 검색 필터 기능
- ❑ Evidence based medicine (EBM) 정보 및 Systematic review를 위한 신뢰도 높은 자료 검색 제공

기본 검색 방법

1. 간편 검색 (Quick Search)
2. 고급검색 (Advanced Search)
3. 약물검색 (Drug Search)
4. 질병검색 (Disease Search)
5. 문헌검색 (Article Search)
6. Emtree 검색
7. Journal 검색
8. Authors 검색

www.embase.com 접속 첫 화면

Quick Search 화면이 가장 처음으로 보임.

- ❶ 검색어 입력 (검색 창을 추가하여 여러 검색어 입력 및 연산자 조합 가능)
- ❷ 검색범위 설정
- ❸ 출판 년도를 입력하여 검색

Search

2 Broad search

1 for... e.g. 'heart attack' AND stress

AND Author name e.g. watson j

AND Journal name e.g. american heart

+ Add search field

Show 0 results >

검색어를 직접 입력하거나, 자동완성
검색어를 활용합니다.

Limit to:

Publication years (including):

Records added to Embase:

2016 to 2016

1-1-2016 to 31-12-2016

옵션 기능으로 문헌의 출판 년도를
설정할 수 있습니다.

고급검색 (Advanced search)

Search → Advanced search

Search ▾
Browse ▾
Results
My tools ▾
Register
Login
🔔 (1)

PICO

Advanced

Advanced Search

Search >
Mapping ^
Date ▾
Sources ▾
Fields ▾
Quick limits ▾
EBM ▾
Pub. types ▾
Languages ▾
Gender ▾
Age ▾
Animal ▾
Search tips ▾

Embase mapping options
1
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'

1. Mapping (검색 범위 지정)

- Map to preferred term in Emtree :시소러스에서 자동으로 매칭되는 단어(동의어)를 찾아 검색
- Search also as free text: Index field와 하의어 뿐만 아니라, 제목, 초록에서도 해당 단어가 포함된 문헌 검색
- Explode using narrower Emtree terms: 해당 단어의 하의어, 파생어를 포함하여 검색
- Limit to terms indexed in article as "major focus":입력한 keyword가 article의 주요 주제인 문헌 검색
- search as broadly as possible: 동의어, 하의어 검색 및 (title, abstract, trade name 등과 같은) 나머지 필드에서도 검색

고급검색 (Advanced search)

Search → Advanced search

Search ▾
Browse ▾
Results
My tools ▾
Register
Login
🔔 (1)

PICO

Advanced

Advanced Search

Search >
Mapping ▾
Date ▾
Sources ▾
Fields ▾
Quick limits ▲
EBM ▾
Pub. types ▾
Languages ▾
Gender ▾
Age ▾
Animal ▾
Search tips ▾

Quick limits
2
Clear page selections
Collapse

Humans

With abstract

Article in Press

With molecular sequence number

Animals

Priority journals

In Process

With clinical trial number

Only in English

2. Quick Limits 지정

- Human:사람이 실험대상 또는, Tissue, cell 등이 사용된 문헌 검색
- Animals:동물이 실험 대상, 세포, tissue 등으로 사용된 문헌 검색
- With abstract:초록이 있는 문헌 검색
- Priority journals:동료 평가, 참고문헌 포함 등을 기준으로 정해진 우선 순위의 journal 검색
- Only in English:영어로 기입된 article 검색
- Article in Press:Article in Press 검색
- In Press:In Press 검색
- With molecular sequence number: Molecular sequence number 정보 포함 문헌 검색
- With clinical trial number: Clinical trial number 정보 포함 문헌 검색
- Records added from to: Embase에 문헌이 추가된 날짜 지정 기본검색

고급검색 (Advanced search)

Search → Advanced search

Search ▾
Browse ▾
Results
My tools ▾
Register
Login
🔔 (1)

PICO

Advanced

Advanced Search

Search >
Mapping ▾
Date ▾
Sources ▾
Fields ▾
Quick limits ▾
EBM ▲
Pub. types ▾
Languages ▾
Gender ▾
Age ▾
Animal ▾
Search tips ▾

Evidence Based Medicine
3
Clear page selections
Collapse

Cochrane Review
 Systematic Review

Controlled Clinical Trial
 Randomized Controlled Trial
 Meta Analysis

- Evidence Based Medicine: Randomized Controlled Trial, Systemic Review 등
- Publication Types: Article, Article in Press 등
- Areas of Focus: 연구 분야
- Article Language: 언어
- Gender: Male/Female
- Age Groups: Embryo:first trimester 등
- Animal Study Types: Animal Cell, Animal Experiment 등

약물검색 (Drug Search)

Search → Drug search

Search ▾ Browse ▾ Results My tools ▾ Register Login 🔔(1)

PICO

Drug

Drug Search

Advanced search와 검색 범위 동일한 내용이 있습니다. 여러 옵션을 활용하여 검색 범위를 지정합니다.

'clopidogrel' **1** 약물명 입력

Search > Mapping ▾ Date ▾ Sources ▾ Drug fields ▾ **Drug subheadings ^** Routes ▾ Quick limits ▾ EBM ▾ Pub. types ▾ Languages ▾ Search tips ▾

Subheadings Clear page selections Collapse

<input type="checkbox"/> Adverse drug reaction	<input type="checkbox"/> Drug concentration	<input type="checkbox"/> Endogenous compound
<input type="checkbox"/> Clinical trial	<input type="checkbox"/> Drug development	<input type="checkbox"/> Pharmaceutics
<input type="checkbox"/> Drug administration	<input type="checkbox"/> Drug dose	<input type="checkbox"/> Pharmacoeconomics
<input type="checkbox"/> Drug analysis	<input type="checkbox"/> Drug interaction	<input type="checkbox"/> Pharmacokinetics
<input type="checkbox"/> Drug combination	<input type="checkbox"/> Drug therapy	<input type="checkbox"/> Pharmacology
<input type="checkbox"/> Drug comparison	<input type="checkbox"/> Drug toxicity	

OR AND

2

의약품 검색에 특화된 부제목, 투여경로, 검색필드를 활용하여 주요 검색을 진행합니다.

질병검색 (Disease Search)

Search → Disease search

Search ▾ Browse ▾ Results My tools ▾ Register Login 🔔(1)

PICO

Disease

Disease Search

Advanced search와 검색 범위 동일한 내용이 있습니다. 여러 옵션을 활용하여 검색 범위를 지정합니다.

'leukemia' **1** 질병명 입력

Search > Mapping ▾ Date ▾ Sources ▾ Fields ▾ **Disease subheadings ▲** Quick limits ▾ EBM ▾ Pub. types ▾ Languages ▾ Search tips ▾

Disease subheadings Clear page selections Collapse

<input type="checkbox"/> Complication	<input type="checkbox"/> Epidemiology	<input type="checkbox"/> Surgery
<input type="checkbox"/> Congenital disorder	<input type="checkbox"/> Etiology	<input type="checkbox"/> Therapy
<input type="checkbox"/> Diagnosis	<input type="checkbox"/> Prevention	
<input type="checkbox"/> Disease management	<input type="checkbox"/> Radiotherapy	
<input type="checkbox"/> Drug resistance	<input type="checkbox"/> Rehabilitation	
<input type="checkbox"/> Drug therapy	<input type="checkbox"/> Side effect	

OR AND

2

질병 검색에 특화된 부제를 활용하여, 치료, 진단, 예방, 부작용, 수술 등 주요 검색을 진행합니다.

의료장비검색 (Device Search)

Search → Device search

Search ▾ Browse ▾ Results My tools ▾ Register Login 🔔(1)

PICO

Device

Device Search

Advanced search와 검색 범위 동일한 내용이 있습니다. 여러 옵션을 활용하여 검색 범위를 지정합니다.

e.g. 'mydevice' **1** 의료장비 입력

Search > Mapping ▾ Date ▾ Sources ▾ Device fields ▾ Device subheadings ▲ Quick limits ▾ EBM ▾ Pub. types ▾ Languages ▾ Search tips ▾

Device subheadings Clear page selections Collapse

Adverse device effect

Device comparison

Device economics

Clinical trial

OR AND

2

의료장비검색에 특화된 부제를 활용하여 부작용, 임상시험, 경쟁사 비교 등 주요 검색을 진행합니다.

아티클검색 (Article Search)

Search → Article search

Search ▾ Browse ▾ Results My tools ▾ Register Login 🔔(1)

PICO

Article

저자명, 저널명 등 문헌 관련 keyword를
입력하여 검색 합니다.

Article Search

Article title:	ISSN:
<input type="text"/>	<input type="text"/>
Author Name: e.g. Smith J.A.	CODEN: This is only available for titles added before 2005
<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:
2012 ▾ to 2016 ▾	<input type="text"/>

Search >

브라우저 Emtree

Browse → Emtree

Search ▾ Browse ▾ Results My tools ▾ Register Login 🔔(1)

Emtree

Journals

Type word or phrase (without quotes)

neoplasm X

1 검색어 입력

Find Term >

For term: 'neoplasm'

Extend your search: Explode As major focus

Take this query to Disease Search > Add to Query Builder >

- Emtree
 - diseases
 - physical disease
 - physical disease by etiology and pathogenesis
 - neoplasm** 4,116,727 Records
 - benign tumor
 - congenital tumor
 - cystic neoplasm
 - experimental neoplasm
 - fetal tumor
 - incidentaloma
 - malignant neoplastic disease
 - metastasis
 - mixed tumor
 - neoplasms of uncertain behavior
 - neoplasms subdivided by anatomical site
 - paraneoplastic syndrome
 - precancer and cancer-in-situ
 - pseudo-Meigs syndrome
 - radiation induced neoplasm

Neoplasm 클릭시, 선택한 단어를 포함한 Emtree 계층 구조 확인

선택한 단어가 Emtree에 추가된 시점, 동의어, CAS 번호, Dorland's dictionary 정보 확인

2 Synonyms

acral tumor; acral tumour; cancer; cancers; neoplasia; neoplasms; neoplasms by histologic type; neoplasms, cystic, mucinous, and serous; neoplasms, embryonal and mixed; neoplasms, germ cell and embryonal; neoplasms, glandular and epithelial; neoplasms, hormone-dependent; neoplasms, post-traumatic; neoplastic disease; tumor; tumour

Dorland's dictionary

cancer = a neoplastic disease the natural course of which is fatal. Cancer cells, unlike benign tumor cells, exhibit the properties of invasion and metastasis and are highly anaplastic. Cancer includes the two broad categories of carcinoma and sarcoma, but in normal usage it is often used synonymously with carcinoma.

neoplasia = the formation of a neoplasm, i.e., the progressive multiplication of cells under conditions that would not elicit, or would cause cessation of, multiplication of normal cells.

neoplasm = any new and abnormal growth; specifically a new growth of tissue in which the growth is uncontrolled and progressive (see neoplasia). Malignant neoplasms are distinguished from benign in that the former show a greater degree of anaplasia and have the properties of invasion and metastasis. Called also tumor.

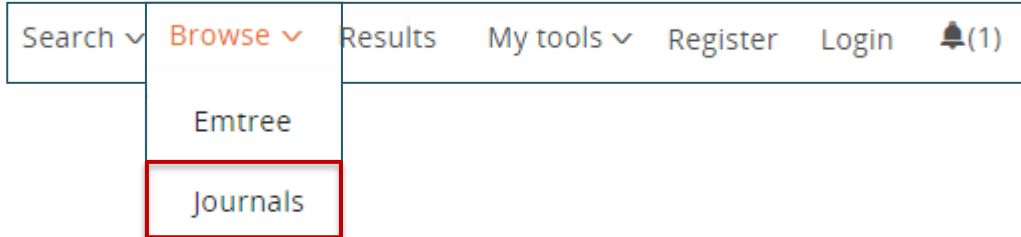
tumor = a new growth of tissue in which the multiplication of cells is uncontrolled and progressive; called also neoplasm.

tumor = swelling, one of the cardinal signs of inflammation; morbid enlargement.

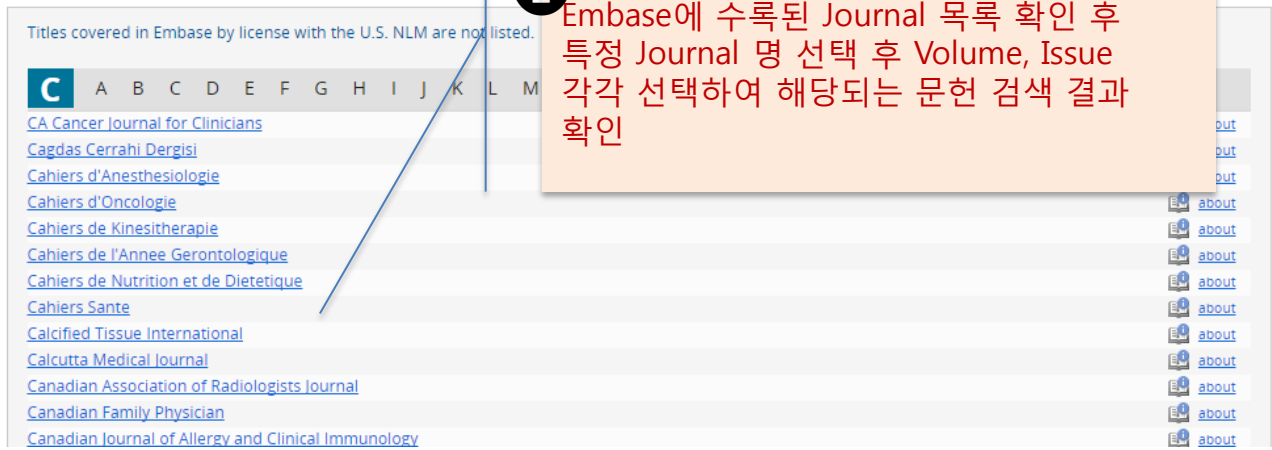
Definition from *Dorland's Medical Dictionary*, 32nd edition, copyright © 2011 by Elsevier. For more information please go to www.dorlands.com

저널검색 (Journal Search)

Browse → Journals

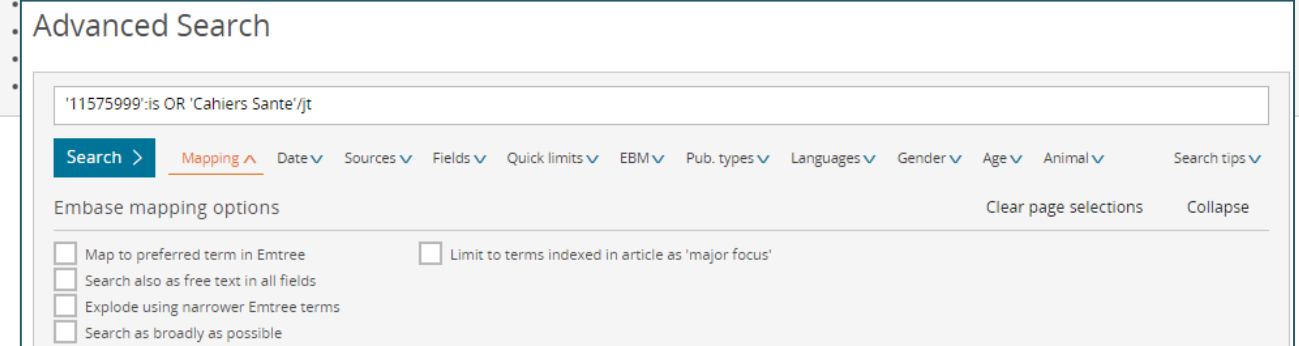
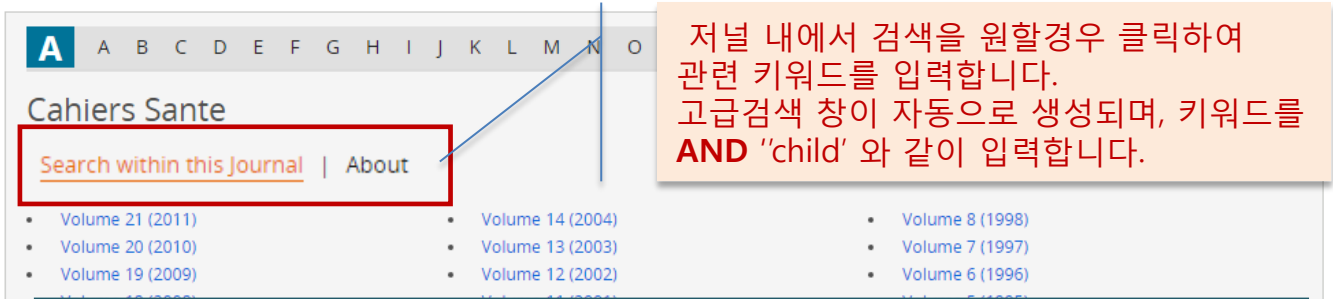


Browse Journals



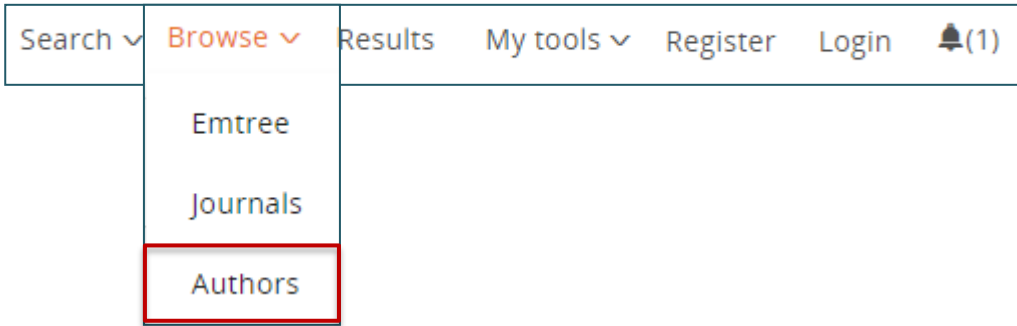
2 출판연도와 volume으로 확인 가능

Browse Journals

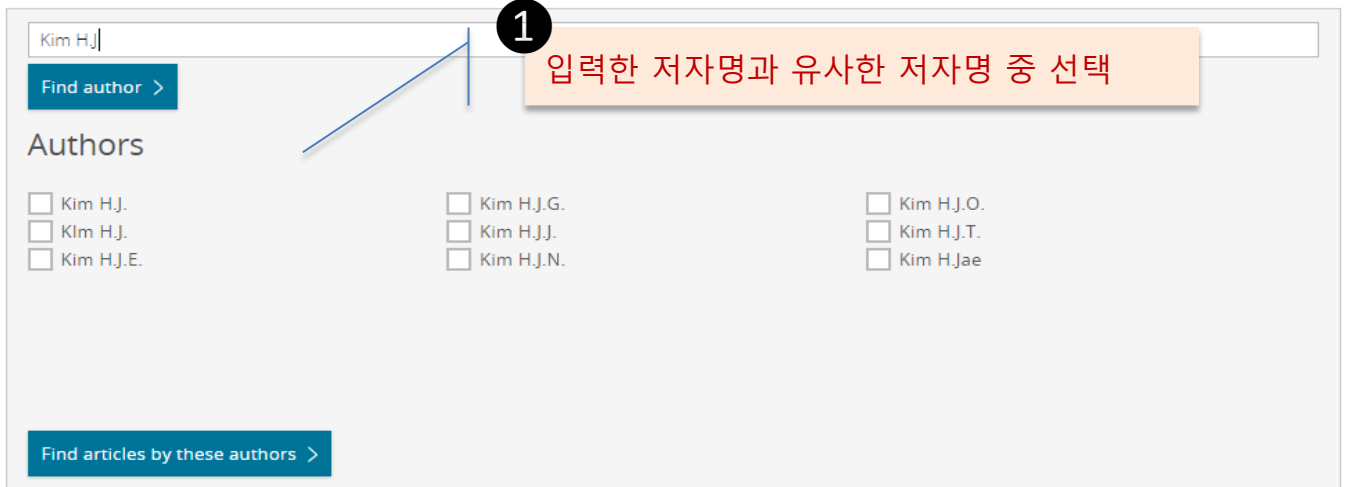


저널검색 (Author Search)

Browse → Author



Find Author



결과페이지 (Results)

'warfarin/exp

Search > Mapping ▾ Date ▾ Sources ▾ Fields ▾ Quick limits ▾ EBM ▾ Pub. types ▾ Languages ▾ Gender ▾ Age ▾ Animal ▾

Results Filter **1** **필터 기능 활용하여 검색 범위 조정** Save | Delete | Print view | Export | Email **Combine >** using And Or

+ Expand - Collaps

Sources ▾
Drugs ▾
Diseases ▾
Devices ▾
Floating Subheadings ▾
Age ▾
Gender ▾
Study types ▾
Publication types ▾
Journal titles ▾
Publication years ▾
Authors ▾
Conference Abstracts ▾
Drug Trade Names ▾
Drug Manufacturers ▾
Device Trade Names ▾

#1 'warfarin/exp

75,884 results for search #2 [Set email alert](#) [Set RSS feed](#) [Search details](#)

Results View | Print | Export | Email | Order | Add to Clipboard

Select number of items ▾ Selected: 0 (clear) **2** **문헌제목 클릭하여 상세정보 보기**

- 1 Binding thermodynamics of synthetic dye Allura Red with bovine serum albumin
Lelis C.A., Hudson E.A., Ferreira G.M.D., Ferreira G.M.D., da Silva L.H.M., da Silva M.D.C.H., Pinto M.S., Pires A.C.D.S.
Food Chemistry 2017 217 (52-58)
Embase [Abstract](#) [Index Terms](#) [View Full Text](#)
- 2 Nuclease-aided target recycling signal amplification strategy for ochratoxin A monitoring
Lv L., Li D., Cui C., Zhao Y., Guo Z.
Biosensors and Bioelectronics 2017 87 (136-141)
Embase [Abstract](#) [Index Terms](#) [View Full Text](#)
- 3 Inappropriate prescribing in older persons: A systematic review of medications available in
Lucchetti G., Lucchetti A.L.G.
Archives of Gerontology and Geriatrics 2017 68 (55-61)
Embase [Abstract](#) [Index Terms](#) [View Full Text](#)
- 4 Nasal drug absorption from powder formulations: The effect of three types of hydroxypropyl
Tanaka A., Furubayashi T., Tomisaki M., Kawakami M., Kimura S., Inoue D., Kusamori K., Katsumi H., Sakane T., Yamamoto T.
European Journal of Pharmaceutical Sciences 2017 96 (284-289)
Embase [Abstract](#) [Index Terms](#) [View Full Text](#)
- 5 Think time: A novel approach to analysis of clinicians' behavior after reduction of drug-drug interactions
Schreiber R., Gzeore I.A., Shaha I.E., Shaha S.H.

결과페이지 (Results)

Embase®

1

클립보드에 결과 저장하기
저자정보 Scopus에서 확인 가능

Session Results / Record 1 of 75,884 [Full record](#)

Record 1 [Related Articles](#) | [Add to Clipboard](#) | [Email Record](#)

Binding thermodynamics of synthetic dye Allura Red with bovine serum albumin

[Lelis C.A.](#), [Hudson E.A.](#), [Ferreira G.M.D.](#), [Ferreira G.M.D.](#), [da Silva L.H.M.](#), [da Silva M.D.C.H.](#), [Pinto M.S.](#), [Pires A.C.D.S.](#)
Food Chemistry 2017 217 (52-58)

Go to publisher for the [full text](#)

2 원문보기

Abstract

The interaction between Allura Red and bovine serum albumin (BSA) was studied in vitro at pH 7.4. The fluorescence quench -1, at the warfarin binding site of BSA. This complex formation was driven by increasing entropy. Isothermal titration calorimetry showed these results because it reduced with increasing BSA concentration. Interfacial tension measurements showed that the AR-technique also provided a complexation stoichiometry similar to those obtained by fluorimetric experiments. This work con © 2016 Elsevier Ltd

Drug Terms

3 색인용어, abstract 등 기타 정보 확인

allura red ac, bovine serum albumin, digitoxin, ibuprofen, warfarin, water

Other Terms

air, article, binding affinity, binding competition, complex formation, differential scanning calorimetry, in vitro study, isothermal titration calorimetry, pH, stoichiometry, surface property, Taylor Aris diffusion

Author Keywords

Diffusion coefficient, Enthalpy, Fluorescence, Interfacial tension, Synthetic food dye

Correspondence Address

Pires A.C.D.S. ✉: Department of Food Technology, Universidade Federal de Viçosa Av, PH Rolfs, s/n, Campus Universitaric

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Pinto M.S.: Institute of Agrarian Sciences, Universidade Federal de Minas Gerais Av. Universitaria, 1000, Bairro Universitaric

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4 추가 정보 확인 -저자 국적, 언어, 참고문헌 수, Molecular sequence Number 등

Additional Information

Abbreviated Journal Title	Food Chem.
ISSN	18737072 (electronic), 03088146
CODEN	FOCHD
Source Type	Journal
Source Publication Date	2017-02-15
Entry Date	2016-09-13 (Full record), 2016-09-01 (Article in Press/In process)
Publication Type	Article

검색결과 다운로드/ 반출하기

Endnote 등으로
다운로드

Results View | Print **Export** | Email | Order | Add to Clipboard

Select number of items Selected: 25 (clear) Show all abstracts Sort by: Relevance

1 Spontaneous pneumothorax and literature review
Tortajada-Girbés M., M...
Therapeutic Advances in
Embase [Abstract](#)

2 Respiratory Outcome
Priante E., Moschino L...
American Journal of Per
Embase [Abstract](#)

3 Pulmonary implic
Romano C., Cardile S...
Expert Opinion on Drug
Embase [No abstract

4 2016 ESC Guidelin
Ponikowski P., Voors A...
Nihoyannopoulos P., P...
European Heart Journal 2016 37:27 (2129-2200m)
Embase [No abstract available] [Index Terms](#) [View Full Text](#)

5 Topical cystic fibrosis transmembrane conductance regulator gene replacement for cystic fibr
Lee T.W., Southern K.W., Perry L.A., Penny-Dimri J.C., Aslam A.A.

Export Data

Export format: **RIS format (Mendeley, EndNote)**

Output: **Titles only**

RIS export includes the following:

- TY: Source type, Journal, Book, etc
- Y1: Publication year
- VL: Volume
- IS: Issue
- SP: Start page
- EP: End page
- SN: Serial number (ISSN/ISBN)
- JF: Journal Title (full)
- JO: Journal Title
- UR: Web URL - Full record link to Embase
- L2: DOI/full text link
- A1: Author names
- M1: Author addresses
- AD: Correspondence address
- T1: Title (English)

[Cancel >](#) [Export >](#)

검색식 저장 및 반출

The screenshot displays a search history interface with a list of search items (#4 to #7) on the left. A red box highlights the 'History' header and the search items. A red checkmark is positioned above the 'Save' button in the top navigation bar. The 'Save' button is also highlighted with a red box. A 'Saved Searches' dialog is open, showing a folder named 'Helen Kim' with a sub-folder 'Demo_2016'. The dialog includes a text input field for a search name with the example 'e.g. Population with Alzheimer's disease'. An 'Export' dialog is also open, showing three options: 'HTML file Formatted, includes all sub-searches' (selected), 'Text file (export.txt) Plain text format, flattened query', and 'CSV file (export.csv) Comma separated, flattened query'. The 'Export' dialog has 'Cancel' and 'Export' buttons.

저장 검색식 관리 (saved search)

저장된 검색, Rerun 재검색 – 최신 업데이트 정보 관리 / email alert 등록 최신 업데이트 자동 수신

🔔 (1)
Register
Login

Helen Kim

Edit
 Rerun
 Delete
 View Details
 Set Email Alert
 Set RSS Feed

<input type="checkbox"/>	Your Query	Name	Last Update	Creation Date	Results
<input checked="" type="checkbox"/>	#4 #3 AND ('adverse drug reaction'/lnk OR 'drug toxicity'/lnk OR 'side effect'/lnk) AND ([adolescent]/lim OR [school]/lim)	Genotropin_side effect	2016-05-16	2016-05-16	212
<input type="checkbox"/>	#3 'human growth hormone'/exp/dd_cm,dd_ae,dd_to	Genotropin_side effect	2016-05-16	2016-05-16	1078
<input type="checkbox"/>	#2 #1 AND ('adverse drug reaction'/lnk OR 'drug toxicity'/lnk OR 'side effect'/lnk)	Genotropin_side effect	2016-05-16	2016-05-16	946
<input type="checkbox"/>	#1 'human growth hormone'/exp/dd_cm,dd_ae,dd_to	Genotropin_side effect	2016-05-16	2016-05-16	1078



ELSEVIER

EMBASE를 활용한 EBM 정보검색 가이드

엘스비어 한국지사
김혜령 과장
customer consultant, Life Science solution

Preparing a Systematic Review Cochrane

Cochrane Handbook outlines: SRs 연구 일반적인 8단계

- ① 리뷰 진행할 의학적 질문 정의 및 연구를 위한 기준 검토
- ② 의학적 질문 리뷰를 위한 연구 계획 수립 (검색 전략)을 위한 검색
- ③ 연구를 위한 데이터 수집 (문헌 검색)
4. 포함된 연구에서 편중 위험 평가
5. 데이터 분석과 메타분석 진행
6. 리포팅 편중 (biases) 지정
7. "연구 결과의 요약"테이블과 결과 제시
8. 결과 해석 및 결론

High-Quality Systematic Review



The **Cochrane Collaboration**은 예방, 치료 및 재활의 효과를 시험뿐만 아니라 의료 시스템의 개입에 대해 무작위 대조연구의 체계적 검토를 진행하는 31,000 이상의 의료 전문가 그룹입니다.

Cochrane Reviews는 국제적으로 근거 중심 보건 의료에서 가장 신뢰도 높은 표준으로 인정 받고 있습니다.

The **Cochrane Handbook**에서는 포괄적인 'systematic review'를 위해 **MEDLINE**과 **EMBASE** 모두 검색 할 것을 권장합니다.

What is 'EMBASE'?

세계적인 전문 학술지에 게재된 광범위하고 신뢰할 수 있는 바이오, 질병 및 약물, 관련 문헌 정보 수록, 임상진행상황 모니터링, 부작용, 독성 등 약물 안정성, 치료법 등에 대한 정보 제공

- ❑ 1947~ 현재까지 international biomedical 문헌정보 제공
(1947~1973년 Embase Classic 별도)
- ❑ EMBASE(1947년-현재)와 MEDLINE(1966년-현재)의 자료가 통합된 Database
- ❑ 8,500가지 이상의 저널 타이틀과 EMBASE 만의 2,800여종 저널 추가 제공 (+5.9m 레코드) http://help.elsevier.com/app/answers/detail/a_id/4658/p/9754/c/9869
- ❑ 출간물, peer-reviewed literature, 출간예정인 아티클, 회의초록
- ❑ Life Science 분야의 Thesaurus Emtree (질병, 약물, 메디컬 장비 등)를 통한 강력한 통합 검색
- ❑ Drugs, Disease, Medical device 부제목/ 검색 필터 기능
- ❑ Evidence based medicine (EBM) 정보 및 Systematic review를 위한 신뢰도 높은 자료 검색 제공

Embase helps search best evidence for SRs

종합적이고 신뢰도 높은 콘텐츠

- 종합적이고 신뢰할 만한 콘텐츠 제공
- 최신의 문헌의 빠른 업데이트



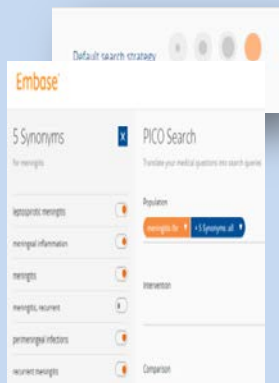
색인/브라우징 용어집

- 주제어에 대한 정확한 이해 및 정의 / 동의어 확장
- 빠르고 쉽게 검색어 선택 및 동의어 조합
- 정확한 검색 결과 제공



편리한 검색 툴

- 다양한 검색 툴과 옵션을 활용해 검색전략 설계
- **Easy & Fast**
- **Try & Error**



결과 관리 기능

- 결과/문헌 관리 효율성 향상 기능
- 결과 여러 형태로 저장/반출 관리 기능



EMBASE에서,

1. PICO 연구 주제 선정

1-1. 리뷰 진행할 의학적 질문 정의

1-2. 연구를 위한 기준 검토

PICO Framework – 검색질문 검토/ 전략 수립하기

PICO는 문헌 검색에서 특정 의학적인 문제에 대해 더 많은 사례(증거)를 기반으로 판단할 수 있도록 사례(증거)문헌을 수집하는 검색전략입니다.

P = Patient

AND

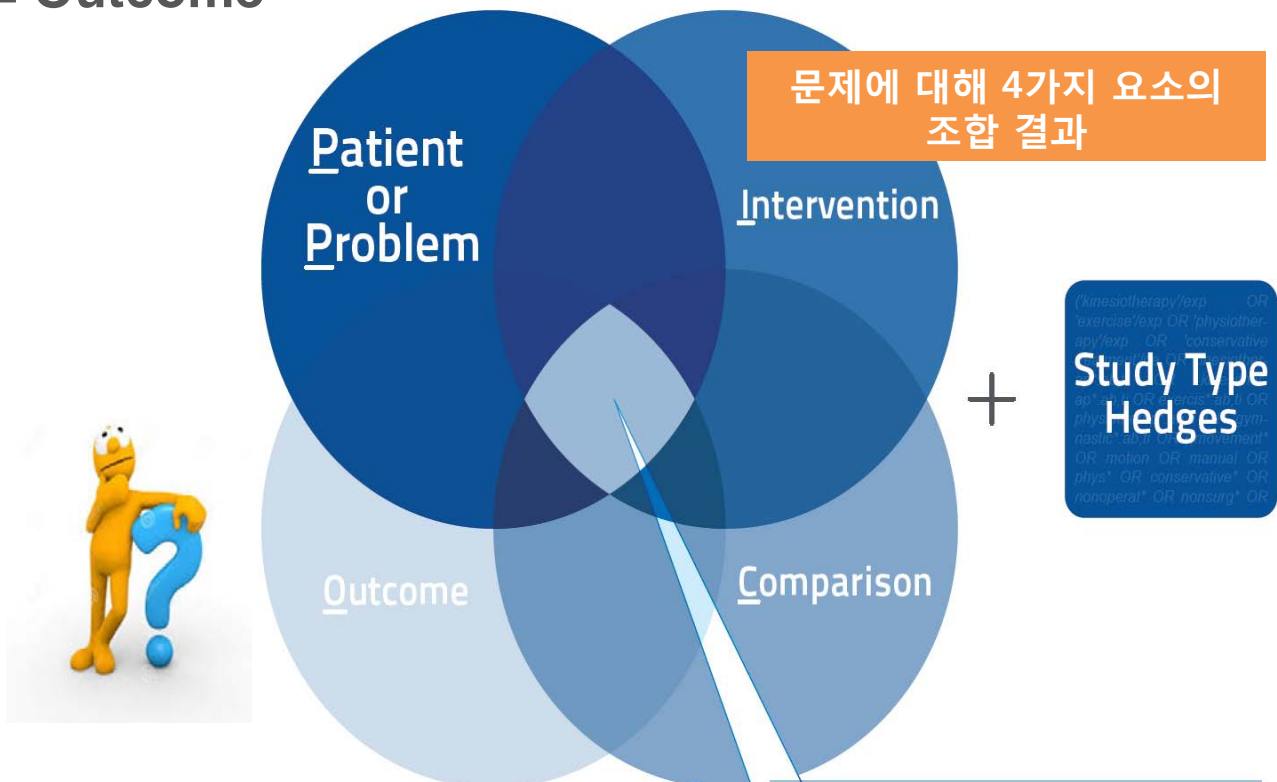
I = Intervention

AND

C = Comparison/control

AND

O = Outcome



PICO Question 설계 예시

Question Type	Patient or Problem	Intervention	Comparison	Outcome
Treatment (Therapy) 치료	환자의 질병 (disease)이나 상태 (condition) (e.g., diabetes mellitus, constipation or meningitis)	치료방법 (e.g., drug, surgery or lifestyle modification)	대체 치료 방법 혹은 placebo (표준치료)	예) 사망(mortality) 생산성(productivity), 통증(pain), 장애(disability) 혹은 고용(employment)
Prevention 예방	환자위험요인 또는 전반적인 건강상태	예방법 (e.g., drug or lifestyle modification)	May not be applicable	예) 병상태(morbidity), 사망(mortality), 통증(pain), 장애(disability)
Diagnosis 진단	대상 질환 또는 상태	진단검사나 절차	문제에 대한 현재의 기준/ 표준 시험	검사유용성의 측정 (e.g., sensitivity, specificity or odds ratio)
Prognosis (natural history) 예후	예후(Prognosis) 임상문제의 심각도 (severity) 및 지속 시간 (duration)	Usually time, sometimes expressed as "watchful waiting"	Usually not applicable. "watchful waiting" 의 경우 표준 치료 식별	예: 생존율, 사망률이나 질병의 진행 속도
Etiology or harm (causation) 위험요인	환자 위험요인, 현재질병상태, 전반적인 건강상태	위험 인자의 강도 (도즈)의 indication과 노출 기간을 포함하여 인자 개입	May not be applicable	예) 질병 발병율, 질병의 진행속도, 혹은 사망율

Adapted from http://libguides.mssm.edu/ebm/ebp_pico

진단(Diagnosis) PICO 검색 예

Question components	Your question
<p>P – Patient or Population Describe the most important characteristics of the patient (e.g.-age, disease/condition, gender)</p>	<p>Asthma diagnosis</p>
<p>I- Intervention Prognostic factor, Exposure Describe the main intervention (e.g.-drug or other treatment, diagnostic/screening test)</p>	<p>thorax radiography</p>
<p>C-Comparison (if appropriate) Describe the main alternative being considered (e.g. – placebo, standard therapy, no treatment, the gold standard)</p>	
<p>O-Outcome Describe what you're trying to accomplish, measure improve, affect. (e.g.- reduced mortality or morbidity, improved memory, accurate and timely diagnosis)</p>	
<p>The well-built clinical question: What is the added value of chest radiography in diagnosis of asthma?</p>	

치료(Therapy) PICO 검색 예

Question components	Your question
<p>P – Patient or Population Describe the most important characteristics of the patient (e.g.-age, disease/condition, gender)</p>	<p>Pregnant women AND diabetes</p>
<p>I- Intervention Prognostic factor, Exposure Describe the main intervention (e.g.-drug or other treatment, diagnostic/screening test)</p>	<p>Insulin pump therapy</p>
<p>C-Comparison (if appropriate) Describe the main alternative being considered (e.g. – placebo, standard therapy, no treatment, the gold standard)</p>	<p>Conventional insulin therapy</p>
<p>O-Outcome Describe what you're trying to accomplish, measure improve, affect. (e.g.- reduced mortality or morbidity, improved memory, accurate and timely diagnosis)</p>	<p>Improved management of glucose levels Successful pregnancy effectiveness, outcome</p>
<p>The well-built clinical question: Are insulin pumps more effective than conventional therapies in managing diabetes in pregnant women?</p>	

EMBASE에서,

2. 의학적 질문 리뷰를 위한 연구 계획 수립

2-1. Quick Search 검색

빠른 검색 (Quick Search)

- 선행 연구에 대한 개요 빠른 검색
- 특정 Cochrane review or systematic review에서 연구전략 참고

Search

Emtree term - exploded

AND 'thorax radiography'

+ Add search field ↻ Reset form

Show 3,900 results >

'asthma'/exp AND 'thorax radiography'/exp

Search > Mapping ▾ Date ▾ Sources ▾ Fields ▾ Quick limits ▾ **EBM** ▲ Pub. types ▾ Languages ▾ Gender ▾

Evidence Based Medicine

Cochrane Review Controlled Clinical Trial

Systematic Review Randomized Controlled Trial

Meta Analysis

14 results for search #4 ⌚ Set email alert 📡 Set RSS feed 📄 Search details

Results View | Print | Export | Email | Order | Add to Clipboard

Select number of items ▾ Selected: 0 (clear) Show all abstracts | Sort by: Relevance

1 An official American Thoracic Society/European Respiratory Society statement: Research qu
Celli B.R., Decramer M., Wedzicha J.A., Wilson K.C., Agusti A., Criner G.J., MacNee W., Make B.J., Rennard S.I., Stockley R.
Barnes P.J., Burgel P.-R., Calverley P.M., Casanova C., Clini E.M., Cooper C.B., Coxson H.O., Dusser D.J., Fabbri L.M., Fahy
M.J., Hayot M., Hurst J.R., Jones P.W., Mahler D.A., Maltais F., Mannino D.M., Martinez F.J., Miravittles M., Meek P.M., Pap
Sethi S., Siafakas N., Sin D.D., Soriano J.B., Stoller J.K., Tashkin D.P., Troosters T., Verleden G.M., Verschakelen J., Vestbo
Wouters E.F.M., ZuWallack R.L.
European Respiratory Journal 2015 45:4 (879-905)
Embase MEDLINE Abstract Index Terms > View Full Text

2 Practical approach to lung health: Lung health for everyone?
Hamzaoui A., Ottmani S.
European Respiratory Review 2012 21:125 (186-195) Cited by: 7
Embase MEDLINE [No abstract available] Index Terms > View Full Text

3 Management of allergic bronchopulmonary aspergillosis: A review and update
Mahdavinia M., Grammer L.C.
Therapeutic Advances in Respiratory Disease 2012 6:3 (173-187) Cited by: 18

인용수 확인
인용이 많이 된 자료 검토

선행 연구 참고

- **검색된 선행 Cochrane review** or systematic review 에서 검색전략을 참고합니다.
- **검색전략에서**
 - ❑ 적용을 위해 연관성을 평가합니다.
 - ❑ 필요하다면, 검색식을 해석 참고 합니다.
 - ❑ 사용된 색인용어 (indexed terms), 자유어 (free-text terms)를 참고합니다.
 - ❑ 주제어 변경 등

Search methods for identification of studies

Trials were identified from the following sources:

1. The Cochrane Airways Group Specialized Trials Register (updated October 2010)
2. The Cochrane Central Register of Controlled Trials (CENTRAL): Issue 4, 2010
3. MEDLINE (1950 to October 2010).
4. EMBASE (1980 to October 2010).
5. The list of references in relevant publications.
6. Written communication with the authors of trials included in the review when necessary.

For the full database topic search strategies see [Appendix 1](#).

EMBASE Strategy
(Combined with RCT* search filter)

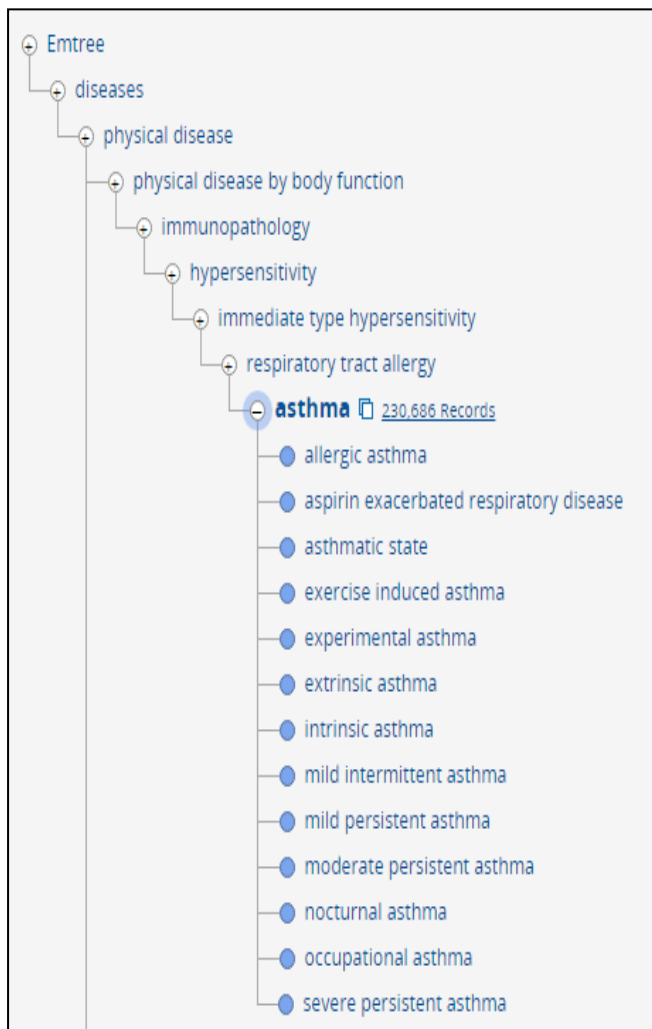
```
#1 Emtree descriptor Bronchiectasis ex-
plode all trees
#2 bronchiect*
#3 (#1 OR #2)
#4 Emtree descriptor Corticosteroid ex-
plode all trees
#5 steroid*
#6 corticosteroid*
#7 glucocorticoid*
#8 beclomet*
#9 budesonide
#10 fluticasone
#11 ciclesonide
#12 flunisolide
#13 triamcinolone
#14 (#4 OR #5 OR #6 OR #7 OR #8 OR
#9 OR #10 OR #11 OR #12 OR #12)
#15 (#3 AND #14)
```



ELSEVIER

EMBASE에서,
3. 검색 전략 수립 (검색용어 정의) 및 검색식 조합

검색어 찾기: 우선어/ 동의어 in Emtree Record



Embase®

asthma ✕

230,686 records found

History

This term was added to Emtree in 1974

Synonyms

asthma bronchiale; asthma pulmonale; asthma, bronchial; asthmatic; asthmatic subject; bronchial asthma; bronchus asthma; childhood asthma; chronic asthma; lung allergy

Dorland's dictionary

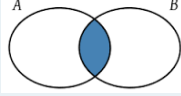
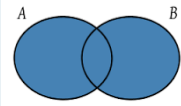
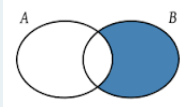
asthma = recurrent attacks of paroxysmal dyspnea, with airway inflammation and wheezing due to spasmodic contraction of the bronchi. Some cases are allergic manifestations in sensitized persons (allergic a.); others are provoked by factors such as vigorous exercise, irritant particles, psychologic stresses, and others. Called also bronchial a. and spasmodic a.

bronchial asthma = asthma.

Definition from *Dorland's Medical Dictionary*, 32nd edition, copyright © 2011 by Elsevier. For more information please go to www.dorlands.com

다양한 검색 연산자- Search tips

□ 불리언 연산자 Boolean operators

AND	depression AND tricyclic	단어 나 구를 모두 레코드에 있는 경우	
OR	elderly OR aged	적어도 하나의 단어 나 문장은 레코드에 있는 경우	
NOT	depression NOT tricyclic	NOT 뒤에 단어 나 구문은 제외	

복잡한 단일 검색에서 괄호를 사용하고 여러 연산자를 결합하여 사용
 (aged OR elderly OR geriatric) AND (depression OR insomnia)

Note: **괄호 사용**

□ 인접검색 Proximity operators

NEAR/n	drug* NEAR/2 adverse	순서에 상관없이, n 개의 단어 내에 있어야 합니다
NEXT/n	adverse NEXT/2 reaction*	동일한 순서로 n 개의 단어 내에 있어야 합니다

근접 및 불리언 연산자를 결합하여 복잡한 단일 검색 (괄호 사용)
 'clinical' NEXT/2 ('trial*' OR 'application*') ('adverse' OR 'side' OR 'undesirable')
 NEXT/2 (effect* OR 'event*' OR 'reaction*' OR 'outcome*')

Note: **괄호 사용**

다양한 검색 연산자- Search tips

□구문 검색 (Phrase search)

'heart attack' "heart attack" heart-attack	※ 구문에서 단어를 따옴표 또는 하이픈으로 연결하지 않으면, Emtree term 혹은 자유어(free text)로 인식하여 각 단어를 AND로 검색진행 예) heart attack ⇒ 'heart'/exp OR heart AND attack.
--	--

예) 'heart attack' AND (clinical NEXT/2 (trial OR study))

□절단자 Truncation/Wildcards

* 하나 이상의 문자를 대체	sul*ur	결과: sulfur, sulphur
	'heart attack*'	결과 heart attack, heart attacks
? 단일 문자 절단	sulf?nyl	결과 'sulfonyl' and 'sulfinyl' 와 같은 단어 포함
	catheter?	결과 'catheters' 검색 'catheter' or 'catheterization' 검색 안됨

Note:

- ① *로 절단하기 전에 적어도 세 개의 문자를 입력
- ② Wildcard + field 조합: 예) sul*ur:ti:ab
- ③ ? + field 조합은 지원하지 않음 (예: sulf?nyl:ab:ti)
- ④ 구문 내에서 절단 문자 (와일드 카드)를 사용: "heart infarct*" or "metabol* disorder"
- ⑤ Wildcard * 2 단어 미만이 문자로 사용할 수 없음: 예) "m* disorder" or "metabol* d**"

검색 범위 지정

Embase®

'congenital hearing disorder'/exp OR 'congenital hearing disorder'

Search >

Mapping ^

Date v

Sources v

Fields v

Quick limits v

EBM v

Pub. types v

Languages v

Gender v

Age v

Animal v

Embase mapping options

- 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

검색 예)

History

Save

| Delete

| Print view

| Export

| Email

Combine >

- #4 'neoplasm'/exp OR 'neoplasm'
- #3 'neoplasm'/exp
- #2 'neoplasm'/de
- #1 'neoplasm'/mj

<input type="radio"/>	/mj	Major focus	286,074 results
<input type="radio"/>	/de	Index term	704,331 results
<input checked="" type="radio"/>	/exp	Explosion	4,019,716 results
<input type="radio"/>	/br	As broad as possible	4,024,461 results

Embase 검색 범위 (검색용어의 범위)

Embase 검색 옵션	설명
Map to preferred term in Emtree	우선어와 동의어를 입력 시 자동으로 인식되어 우선어 동의어 동시 검색 예): 'myocardial infarction', 'heart attack'은 'heart infarction'로 매핑 검색 ※ 검색범위를 지정하지 않을 경우 자유어로 'all fields'로 검색이 진행됨
Search also as free text in all fields	검색어가 모든 필드에서 자유어 (free text search)로 검색되어 짐 title, abstract, Key words, index terms, 소속 등....
Explode using narrower Emtree terms	Emtree 하위 용어까지 확장 검색
Search as broadly as possible	최대한 넓게 검색 /위 모든 조건들 모두 포함하며 검색어를 AND 연산자로 분리하여 검색, 검색어들 간에 OR검색 실행 예) heart attack -> 'heart'/exp OR heart AND attack
Limit to terms indexed in article as 'major focus'	논문 중에서 가장 중요한 main topic을 Indexer가 부여 이 옵션을 선택하면 용어 색인이 있지만 아티클에서 주요 주제어로 간주되지 않는 모든 기록은 제외되며, 이 옵션을 해제하면, 검색은 아티클 내에서 주요 주제어가 아닐지라도 검색어로 색인된 레코드가 검색이 됩니다.

Advanced Search 검색가이드

진단(Diagnosis) PICO 검색 예

Question components	Your question
<p>P – Patient or Population Describe the most important characteristics of the patient (e.g.-age, disease/condition, gender)</p>	<p>Asthma diagnosis</p>
<p>I- Intervention Prognostic factor, Exposure Describe the main intervention (e.g.-drug or other treatment, diagnostic/screening test)</p>	<p>thorax radiography</p>
<p>C-Comparison (if appropriate) Describe the main alternative being considered (e.g. – placebo, standard therapy, no treatment, the gold standard)</p>	
<p>O-Outcome Describe what you're trying to accomplish, measure improve, affect. (e.g.- reduced mortality or morbidity, improved memory, accurate and timely diagnosis)</p>	
<p>The well-built clinical question: What is the added value of chest radiography in diagnosis of asthma?</p>	

① 검색어 입력하기

Query Builder ▼
Build a multi-term search query

Find Term Browse by Facet

Type word or phrase (without quotes)

asthma

Find Term >

For term: '**atopic dermatitis**'
Extend your search: Explode As major focus

Take this query to Disease Search >

Query Builder ▼
Build a multi-term search query

Find Term Browse by Facet

Type word or phrase (without quotes)

thorax radiography

Find Term >

For term: '**thorax radiography**'
Extend your search: Explode As major focus

Take this query to Advanced Search >

② 동의어 검색하기

Embase®

thorax radiography ✕

150,816 records found

History

This term was added to Emtree in 1974

Synonyms

chest radiogram; chest radiograph; chest radiography; chest radiology; chest roentgenogram; chest roentgenography; chest roentgenology; chest x ray; chest xray; mass chest x-ray; radiography, thoracic; radiography, chest; radiography, thorax; roentgenology, thorax; thoracic radiography; thoracic roentgenology; thoracic x ray; thorax radiogram; thorax radiograph; thorax radiology; thorax roentgenogram; thorax roentgenography; thorax roentgenology; thorax x ray; thoraxradiography; X chest

Embase®

asthma ✕

230,686 records found

History

This term was added to Emtree in 1974

Synonyms

asthma bronchiale; asthma pulmonale; asthma, bronchial; asthmatic; asthmatic subject; bronchial asthma; bronchus asthma; childhood asthma; chronic asthma; lung allergy

Dorland's dictionary

asthma = recurrent attacks of paroxysmal dyspnea, with airway inflammation and wheezing due to spasmodic contraction of the bronchi. Some cases are allergic manifestations in sensitized persons (allergic a.); others are provoked by factors such as vigorous exercise, irritant particles, psychologic stresses, and others. Called also bronchial a. and spasmodic a.

bronchial asthma = asthma.

Definition from *Dorland's Medical Dictionary*, 32nd edition, copyright © 2011 by Elsevier. For more information please go to www.dorlands.com

③ 우선어/동의어 등 용어 검색조합 OR, AND 사용

History Save | Delete | Print view | Export | Email **Combine >** using And Or ^ Collapse

#6	'randomized controlled trial'/exp OR 'controlled trial, randomized' OR 'pragmatic clinical trial' OR 'pragmatic clinical trials' OR 'randomised controlled study' OR 'randomised controlled trial' OR 'randomized controlled study' OR 'randomized controlled trial' OR 'trial, randomized controlled' OR 'meta analysis'/exp OR 'analysis, meta' OR 'meta analysis' OR 'meta-analysis' OR 'metaanalysis' OR 'systematic review'/exp OR 'review, systematic' OR 'systematic review'	735,482
#5	'thorax radiography'/exp OR 'x chest' OR 'chest radiogram' OR 'chest radiograph' OR 'chest radiography' OR 'chest radiology' OR 'chest roentgenogram' OR 'chest roentgenography' OR 'chest roentgenology' OR 'chest x ray' OR 'chest xray' OR 'mass chest x-ray' OR 'radiography, chest' OR 'radiography, thoracic' OR 'radiography, thorax' OR 'roentgenology, thorax' OR 'thoracic radiography' OR 'thoracic roentgenology' OR 'thoracic x ray' OR 'thorax radiogram' OR 'thorax radiograph' OR 'thorax radiography' OR 'thorax radiology' OR 'thorax roentgenogram' OR 'thorax roentgenography' OR 'thorax roentgenology' OR 'thorax x ray' OR 'thoraxradiography'	166,512
#4	'asthma'/exp OR 'asthma':ti,ab OR 'asthma bronchiale':ti,ab OR 'asthma pulmonale':ti,ab OR 'asthma, bronchial':ti,ab OR 'asthmatic':ti,ab OR 'asthmatic subject':ti,ab OR 'bronchial asthma':ti,ab OR 'bronchus asthma':ti,ab OR 'childhood asthma':ti,ab OR 'chronic asthma':ti,ab OR 'lung allergy':ti,ab	255,997

4 검색결과 다운로드/ 반출하기

Endnote 등으로
다운로드

Results View | Print **Export** | Email | Order | Add to Clipboard

Select number of items Selected: 25 (clear) Show all abstracts Sort by: Relevance

1 Spontaneous pneumothorax and literature review
Tortajada-Girbés M., M...
Therapeutic Advances in
Embase [Abstract](#)

2 Respiratory Outcome
Priante E., Moschino L...
American Journal of Per
Embase [Abstract](#)

3 Pulmonary implic
Romano C., Cardile S...
Expert Opinion on Drug
Embase [No abstract

4 2016 ESC Guidelin
Ponikowski P., Voors A...
Nihoyannopoulos P., P...
European Heart Journal 2016 37:27 (2129-2200m)
Embase [No abstract available] [Index Terms](#) [View Full Text](#)

5 Topical cystic fibrosis transmembrane conductance regulator gene replacement for cystic fibr
Lee T.W., Southern K.W., Perry L.A., Penny-Dimri J.C., Aslam A.A.

Export Data

Export format: **RIS format (Mendeley, EndNote)**

Output: **Titles only**

RIS export includes the following:

- TY: Source type, Journal, Book, etc
- Y1: Publication year
- VL: Volume
- IS: Issue
- SP: Start page
- EP: End page
- SN: Serial number (ISSN/ISBN)
- JF: Journal Title (full)
- JO: Journal Title
- UR: Web URL - Full record link to Embase
- L2: DOI/full text link
- A1: Author names
- M1: Author addresses
- AD: Correspondence address
- T1: Title (English)

[Cancel](#) [Export](#)

⑤ 검색식 저장 및 반출

The screenshot shows a search history interface with a 'History' tab and a 'Save' button highlighted by a red box and a red checkmark. Below the 'Save' button, two dialog boxes are shown:

- Saved Searches:** A dialog box for saving a search. It includes a 'Private' lock icon, a 'Shared' icon, and the user name 'Helen Kim /'. It has 'Folder Options' with 'New', 'Edit', and 'Delete' buttons. A search name 'Helen Kim' is entered, and a 'Saved search name (optional):' field contains 'e.g. Population with Alzheimer's disease'.
- Export:** A dialog box for exporting search results. It has the title 'Export' and 'Export as:' options:
 - HTML file Formatted, includes all sub-searches
 - Text file (export.txt) Plain text format, flattened query
 - CSV file (export.csv) Comma separated, flattened query
 At the bottom right, there are 'Cancel >' and 'Export >' buttons.

The background shows a list of search items with checkboxes on the left and search queries on the right, such as '#7 #4 AND #5 AND #6', '#6 'rand or study' analysis 'system', '#5 'thorax OR 'ch thoraci radiog', and '#4 'asthma'/exp OR 'asthma':ti,ab OR 'asthma bronchiale':ti,ab OR 'asthma pulmonale':ti,ab OR 'ast subject':ti,ab OR 'bronchial asthma':ti,ab OR 'bronchus asthma':ti,ab OR 'childhood asthma':ti,al'.

⑥ 저장 쿼리 관리 (saved search)

저장된 검색, Rerun 재검색 – 최신 업데이트 정보 관리 / email alert 등록 최신 업데이트 자동 수신

🔔 (1)
Register
Login

Helen Kim

✎ Edit
🔄 Rerun
🗑 Delete
📄 View Details
✉ Set Email Alert
📡 Set RSS Feed

	Your Query	Name	Last Update	Creation Date	Results
<input checked="" type="checkbox"/>	#4 #3 AND ('adverse drug reaction'/lnk OR 'drug toxicity'/lnk OR 'side effect'/lnk) AND ([adolescent]/lim OR [school]/lim)	Genotropin_side effect	2016-05-16	2016-05-16	212
<input type="checkbox"/>	#3 'human growth hormone'/exp/dd_cm,dd_ae,dd_to	Genotropin_side effect	2016-05-16	2016-05-16	1078
<input type="checkbox"/>	#2 #1 AND ('adverse drug reaction'/lnk OR 'drug toxicity'/lnk OR 'side effect'/lnk)	Genotropin_side effect	2016-05-16	2016-05-16	946
<input type="checkbox"/>	#1 'human growth hormone'/exp/dd_cm,dd_ae,dd_to	Genotropin_side effect	2016-05-16	2016-05-16	1078



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Thank you!

Any questions? Contact:

Name: 김혜령 과장

email: he.kim@elsevier.com

Tel: 02-6714-3134

NEW PICO 검색 이용자 가이드

엘스비어 한국지사

김혜령 CUSTOMER CONSULTANT

2016. 03

'PICO search' 기능 소개

새로운 PICO 검색 기능은 PICO 검색 (Patient, Intervention, Comparison/Control and Outcome)의 4 요소로 임상 질문을 명확하게 분리하여 증거 기반 접근 (evidence-based approach) 방식으로 문헌 검색을 할 수 있도록 지원하는 툴입니다.

새로운 PICO 검색 폼은 아래와 같이 편리한 one-step 검색기능을 통한 간편하고 빠른 통합검색 프로세스입니다.

- 연산자 (Boolean Operators) 각각 OR 및 AND를 사용하여 각 PICO 요소 내 (within)와 각 요소들 사이 (between)에서 검색어를 자동 조합하여 통합 검색결과 표시
- 검색 양식 내에서 Emtree 시소러스를 검색을 통해 정확하고 간편하게 검색어 입력 가능
- 선택적으로 검색 폼에서 바로 동의어를 선택하여 추가 가능
- 필드 코드를 설명하는 용어와 드롭 다운 메뉴를 통해 쉽게 자동 완성

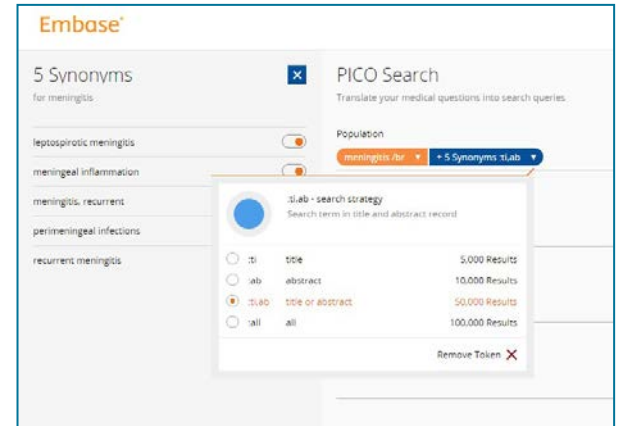
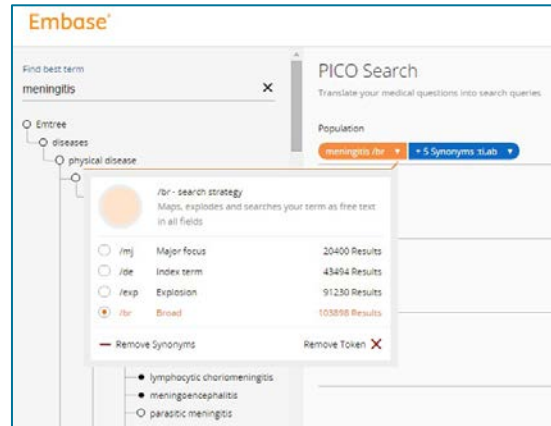
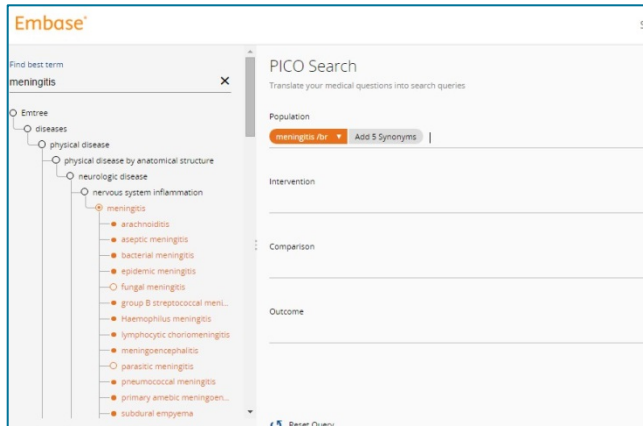
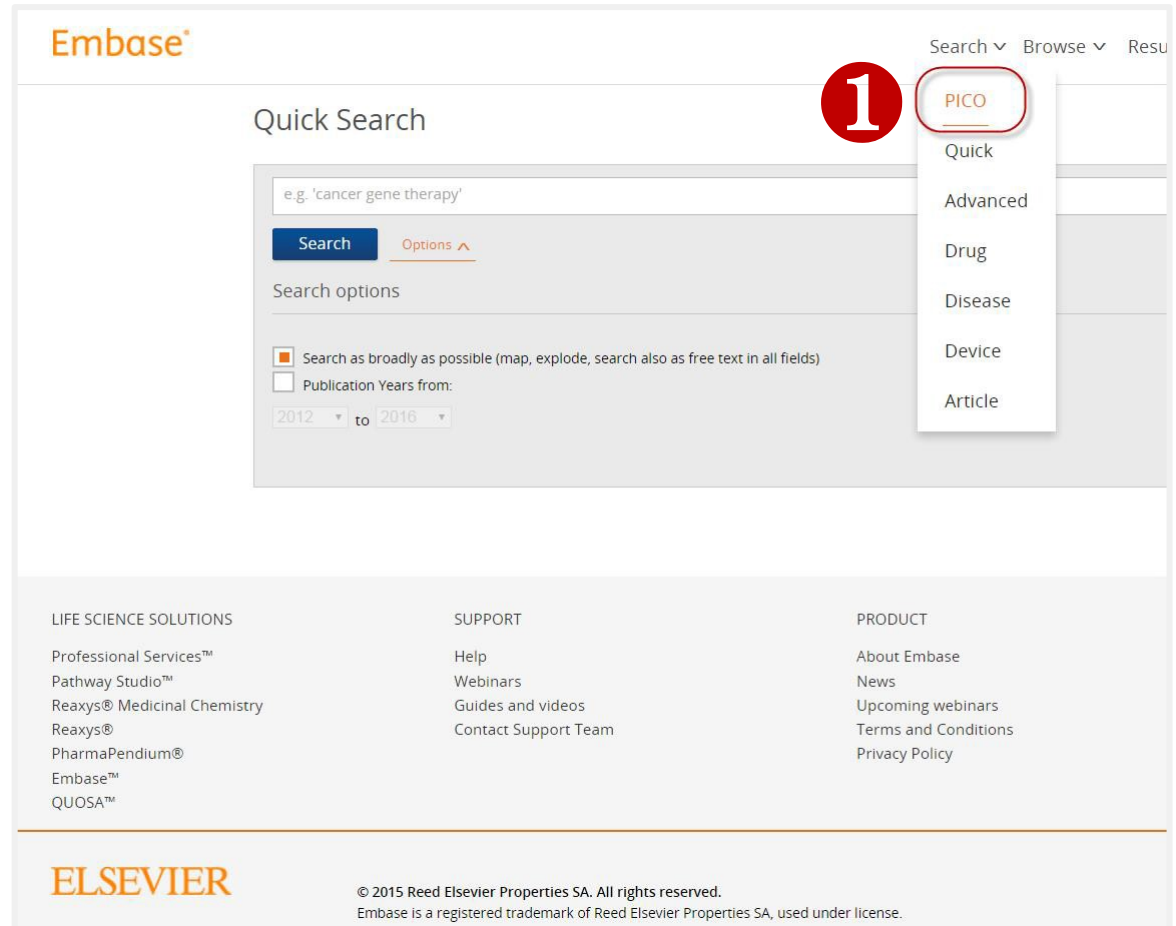


Figure 1: 새로운 PICO 검색어 프레임 워크를 사용하여 Emtree 용어에서 검색어를 검색 입력하고, 바로 동의어를 추가하여 검색어 (query) 입력이 용이합니다.

Figure 2: Emtree용어의 동의어가 바로 원 클릭으로 추가가 가능하여, 검색어를 입력하는 시간을 현저히 단축하고 간편화 하였습니다

PICO search form

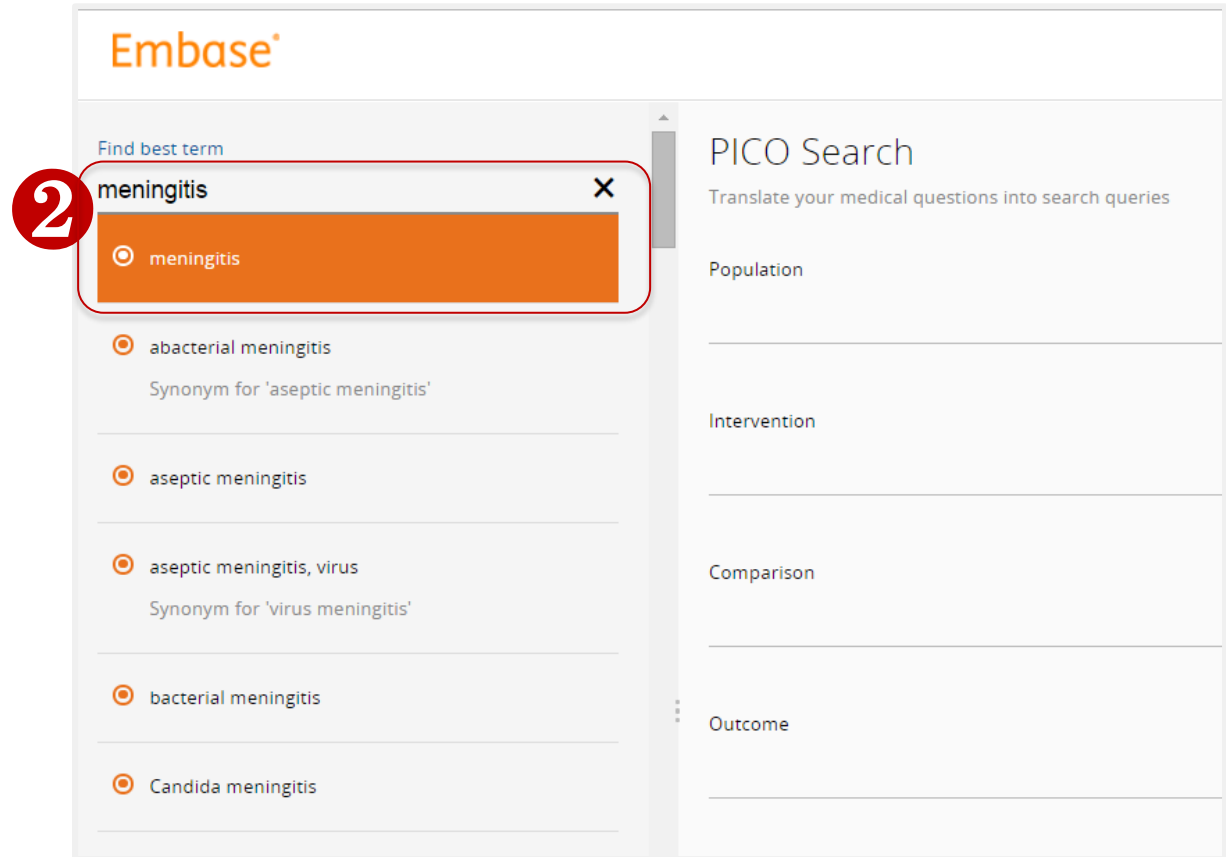
① Search 메뉴에서 PICO를 선택합니다.



The screenshot displays the Embase search interface. At the top left is the Embase logo. In the top right corner, there are navigation links: Search, Browse, and Results. A red circle with the number '1' highlights the Search dropdown menu, which is open and shows the following options: PICO (highlighted with a red circle), Quick, Advanced, Drug, Disease, Device, and Article. Below the navigation is the 'Quick Search' section, which includes a search input field containing the text 'e.g. 'cancer gene therapy'', a blue 'Search' button, and a link for 'Options'. Underneath the search field are 'Search options' including a checkbox for 'Search as broadly as possible (map, explode, search also as free text in all fields)', a checkbox for 'Publication Years from:', and a date range selector set to '2012 to 2016'. The bottom of the page features three columns of links: 'LIFE SCIENCE SOLUTIONS' (Professional Services™, Pathway Studio™, Reaxys® Medicinal Chemistry, Reaxys®, PharmaPendium®, Embase™, QUOSA™), 'SUPPORT' (Help, Webinars, Guides and videos, Contact Support Team), and 'PRODUCT' (About Embase, News, Upcoming webinars, Terms and Conditions, Privacy Policy). The Elsevier logo is at the bottom left, and the copyright notice '© 2015 Reed Elsevier Properties SA. All rights reserved. Embase is a registered trademark of Reed Elsevier Properties SA, used under license.' is at the bottom right.

PICO search form: 검색어 입력 창 활용하기

② 페이지의 왼쪽에, 'Find best term'에서 키워드를 입력하고 제안된 목록에서 조건 중 하나를 선택합니다.



The screenshot displays the Embase PICO Search interface. On the left, a search box labeled 'Find best term' contains the text 'meningitis'. A red circle with the number '2' is overlaid on the search box. Below the search box, a dropdown menu is open, showing a list of suggested terms. The first term, 'meningitis', is highlighted with an orange background and a radio button. Other terms include 'abacterial meningitis' (with a note 'Synonym for 'aseptic meningitis''), 'aseptic meningitis', 'aseptic meningitis, virus' (with a note 'Synonym for 'virus meningitis''), 'bacterial meningitis', and 'Candida meningitis'. On the right side of the interface, the 'PICO Search' section is visible, with fields for 'Population', 'Intervention', 'Comparison', and 'Outcome'.

PICO search form: Emtree에서 검색어 입력하기

선택된 용어가 Emtree에 표시됩니다.

③ 용어 옆에 마우스를 가져 가면 오렌지 색으로 표시되는 'Add to Query'를 클릭하면 검색어 입력 창에 추가됩니다.

The screenshot displays the Embase PICO Search interface. On the left, a tree structure under 'Find best term' shows the hierarchy for 'meningitis'. The 'meningitis' node is selected and highlighted in orange, with an 'Add to Query +' button next to it. A red circle with the number '3' is placed over this button. The right side of the interface shows the PICO Search form with fields for Population, Intervention, Comparison, and Outcome.

Embase®

Find best term
meningitis

Emtree
diseases
physical disease
physical disease by anatomical structure
neurologic disease
central nervous system disease
central nervous system infection
meningitis
arachnoiditis
aseptic meningitis
bacterial meningitis
epidemic meningitis
fungal meningitis
group B streptococcal men...

PICO Search
Translate your medical questions into search queries

Population

Intervention

Comparison

Outcome

PICO search form: 검색 옵션 설정

④ 입력된 검색용어는 기본값으로 'broadly as possible'로 검색이 됩니다. 다른 검색옵션은 오렌지색 창에서 화살표를 클릭하여 목록에서 다른 검색 옵션을 클릭합니다.

- 'index term',
- 'major focus'
- 'explosion search'

The screenshot shows the Embase PICO Search interface. The search term 'meningitis' is entered in the 'Find best term' field. A dropdown menu is open, showing search options for 'meningitis /br'. A red circle with the number '4' highlights the dropdown menu. The options are:

Option	Description	Results
<input checked="" type="radio"/> /br	Broad	103898 Results
<input type="radio"/> /mj	Major focus	20400 Results
<input type="radio"/> /de	Index term	43494 Results
<input type="radio"/> /exp	Explosion	91230 Results

Below the options, there are buttons for '+ Add Synonyms' and 'Remove Token X'. The interface also shows a tree view on the left with 'Emtree', 'diseases', and 'physical disease' selected. The search results for 'meningitis /br' are listed below the options: meningitis, lymphocytic choriomeningitis, and meningoencephalitis.

PICO search form: 동의어 설정

⑤ Emtree 용어가 추가되면, 회색 창이 오렌지색 창 옆에 표시됩니다. 회색 창을 클릭하면, 쿼리 해당 용어의 모든 동의어가 표시되며, 개별 동의어를 패널에서 버튼을 클릭하여 선택 추가 혹은 제외 할 수 있습니다.

※ 기본적으로는 'all fields'로 모두 포함하기로 설정 됩니다.

The screenshot displays the Embase PICO Search interface. On the left, a panel titled "5 Synonyms for meningitis" lists six terms with toggle switches: leptospirotic meningitis, meningial inflammation, meningitis, meningitis, recurrent, perimeningeal infections, and recurrent meningitis. A red circle with the number "5" highlights this panel. On the right, the "PICO Search" form is visible, with a red circle and "5" highlighting the "Population" dropdown menu, which currently shows "meningitis /br" and "+ 5 Synonyms :all".

PICO search form: 검색 필드 설정

⑥ 추가된 동의어는 기본적으로 모든 분야에서 검색됩니다. Free-text term이 검색되는 필드를 변경하려면 드롭다운 화살표를 클릭하여 변경합니다.

※ 모든 필드 검색하기는 제목(titles), 초록 (abstracts), 저자 키워드 (Keywords), brand name, manufacturer name 등에서 모두 검색

The screenshot shows the Embase PICO Search interface. On the left, there is a list of 6 synonyms for meningitis: leptospirotic meningitis, meningial inflammation, meningitis, meningitis, recurrent, perimeningeal infections, and recurrent meningitis. Each synonym has a toggle switch. On the right, the PICO Search section is active, showing a dropdown menu for the search term 'meningitis /br' and a dropdown for '+ 6 Synonyms :all'. A red circle highlights the ':all' option in the dropdown menu, which is selected. The dropdown menu also shows other options: ':ti' (title, 5,000 Results), ':ab' (abstract, 10,000 Results), and ':ti,ab' (title or abstract, 50,000 Results). A 'Remove Token' button is visible at the bottom right of the dropdown menu.

Search Strategy	Results
:all - search strategy Search term in all fields of record	100,000 Results
:ti title	5,000 Results
:ab abstract	10,000 Results
:ti,ab title or abstract	50,000 Results

PICO search form: 검색어 입력

- 검색어 드롭 다운 목록에서 용어를 선택하고 입력라인에 키워드를 입력하여 검색에 단어를 추가 할 수 있습니다.
- **7** 오렌지 글 머리 기호는 Emtree 용어입니다.
- **8** 블루창을 클릭 + 'free' term으로 추가

※ indexed term이 선택이 되면, 오렌지색 토큰으로 입력됩니다.

※ 자유어(free term)는 기본적으로 모든 분야에서 검색이 됩니다

The screenshot displays the Embase PICO Search interface. On the left, the 'Find best term' section shows a hierarchical tree structure starting from 'Emtree' and navigating through 'diseases', 'physical disease', 'physical disease by anatomical structure', 'neurologic disease', 'central nervous system disease', and 'central nervous system infection' to reach 'meningitis'. The 'meningitis' node is highlighted with an orange circle, indicating it is an indexed term. Below this, a list of sub-terms is shown, including 'arachnoiditis', 'aseptic meningitis', 'bacterial meningitis', 'epidemic meningitis', 'fungal meningitis', 'group B streptococcal men...', 'Haemophilus meningitis', 'lymphocytic choriomeningi...', 'meningoencephalitis', 'parasitic meningitis', and 'pneumococcal meningitis'. On the right, the 'PICO Search' section shows the 'Population' field with 'meningitis' entered. A list of search results is displayed, with 'meningitis' selected and highlighted with an orange circle and a red '7' in a circle. At the bottom, a blue button labeled '+ Use 'meningitis' as a Free Term' is highlighted with a blue circle and a red '8' in a circle.

PICO search form: 검색 결과 #의 표시

- EMBASE는 자동으로 개별 PICO 요소 내에 용어들 사이를 OR (부울 연산자)로 추가합니다.
- 다른 PICO들 요소 사이 'AND'연산자로 검색어/ 전략들을 결합합니다.

① PICO 검색어들의 입력을 통해 검색이 진행되는 동안 실시간으로 EMBASE 결과의 개수를 계산하고, 페이지의 아래쪽 오른쪽 코너에 결과개수를 표시합니다.

② 'Show # results' 선택해서 검색 수행 및 결과를 봅니다.

The screenshot shows the 'PICO Search' interface. It has a title 'PICO Search' and a subtitle 'Translate your medical questions into search queries'. There are four sections: Population, Intervention, Comparison, and Outcome. The Population section contains three search terms: 'bacterial meningitis /br' with '+ 8 Synonyms :all', 'Haemophilus meningitis /br' with '+ 6 Synonyms :all', and 'pneumococcal meningitis /br' with '+ 4 Synonyms :all'. The Intervention section contains 'antibiotic* :all'. The Comparison and Outcome sections are empty. At the bottom right, there are two numbered circles (1 and 2) and a button labeled 'Show 43 Results'.

More information is available in the Help file:

http://help.elsevier.com/app/answers/detail/a_id/4635/p/7794

Example

cancer* **NEXT/4** cell* **NEXT/6** therapy retrieves:

“Interplay between ROS and autophagy in **cancer cells**, from tumor initiation to cancer **therapy**”

blood **NEXT/2** cardio* **NEAR/5** system* retrieves:

“...and vegetative nervous **system**, disorders of **blood** coagulation, **cardio** haemodynamics...”

pneumonia **NEXT/2** outcome* **NEXT/2** research **NEXT/2** team* retrieves:

“pneumonia severity index ≥ 91 , **Pneumonia Patient Outcomes Research Team** score IV-V or bacteraemic pneumonia...”

(clinical **NEXT/2** (application* OR trial) **NEXT/10** biomarker* **NEXT/10** (treatment OR disease)):ab,ti retrieves:

“studies suggest that MPs may have **clinical** applications including utility as **biomarkers**, use in improving cardiovascular **disease** risk prediction

PICO search form: 검색어 추가입력하기

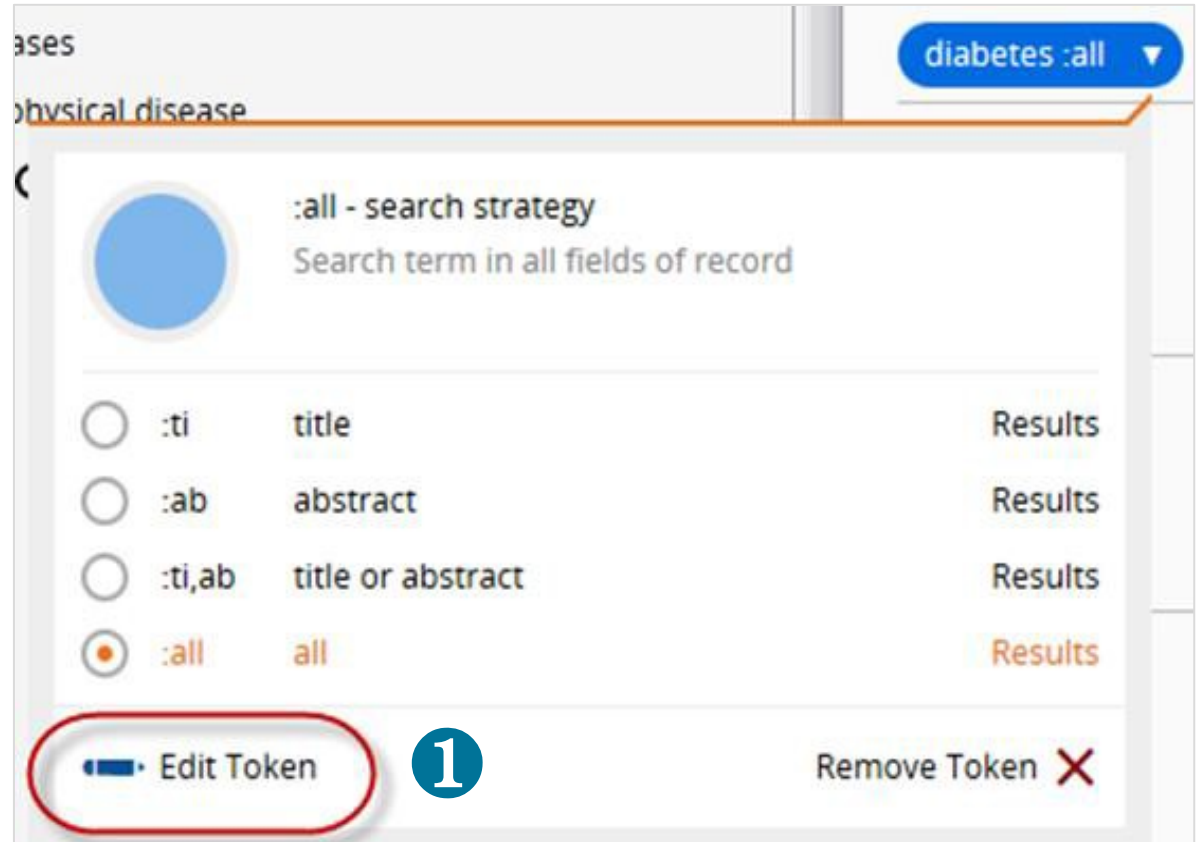
① 용어는 검색입력 라인 어디에나 추가될 수 있습니다. 어느 용어의 앞이나 뒤에 커서를 놓고, 새로운 용어나 괄호를 추가 입력합니다.

② 다르게는, 검색 질문의 적절한 위치에 커서를 위치시키고 그 위치에 용어를 추가하는 페이지 좌측 Emtree에서 용어를 선택해서 추가합니다.

The screenshot displays the Embase PICO Search interface. On the left, the Emtree tree is visible, with 'congenital tumor' selected under 'neoplasm'. An 'Add to Query +' button is highlighted with a red circle and a blue '2'. On the right, the PICO Search form is shown. The Population field contains 'cancer /br' and 'fetal tumor /br', with a red circle around the separator '| br' and a blue '1' next to it. The Intervention and Comparison fields are currently empty.

PICO search form: 검색어 편집 수정하기

① 토큰을 더블 클릭하거나 검색어를 편집하거나 수정하는 플라이 아웃 메뉴에서 "Edit Token" 버튼을 선택합니다.



PICO search form: 검색어 제거하기

① 토큰의 앞이나 뒤에서
키보드의 Delete 키를 누르거나,
'Remove Token'.을 선택하거나
확대를 통해 토큰을 제거 합니다.

The screenshot shows a search interface with a dropdown menu for search strategies. The current selection is '/br - search strategy'. Below the dropdown is a list of search strategies with their respective result counts. A red circle with the number '1' highlights the 'Remove Token' button at the bottom right of the dropdown menu.

Search Strategy	Results
/br - search strategy	37547 Results
/mj Major focus	7379 Results
/de Index term	1548 Results
/exp Explosion	37504 Results

Remove Token X

FAQs & Web Video Tutorial

- ① [How do I build searches using the PICO framework?](#)
- ① [How do I use the PICO search form?](#)
- ① [Is there a guide for using the PICO search form?](#)
- ① [How are search terms mapped in the PICO Search form?](#)
- ① [How do I add or remove synonyms when using the PICO search form?](#)
- ① [How are different search terms combined when using the PICO search form?](#)
- ① [**Video Tutorial 바로 가기**](#)



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