



EBM/SRs 논문작성 EMBASE 완전 정복

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Agenda

Part1. EMBASE VS PUBMED (MEDLINE)

Part 2. 특이도 검색 : 많은 검색 결과 없이 몇 개의 좋은 논문 검색

Part 3. 민감도 검색: 철저한 검색을 통해 연구를 위한 논문 검색

1. 선행연구조사, 연구주제 탐색, 검색전략수립
2. 연구주제 PICO Question 설계 예시
3. Emtree를 이용해서 연구 주제어 정의/ 검색 동의어 확장하기
4. 최종 검색 전략 PICO 수립

Part 4. EMBASE 검색 노하우

1. 검색범위 (검색 정확도 VS 검색 결과문헌 수의 관계)
2. 필수 검색연산자 연습하기

Part 5. 결과 관리 기능

1. 검색식 저장관리/ 편집/ 최신정보 업데이트 설정
2. 검색 결과 반출하기 (서지관리프로그램)
3. 원문 보기

Part 6. 검색초보자/ 전문가를 위한 5분 완성 검색기능 “PICO 검색”

누구나 쉽게 복잡한 검색식을 만들고 검색할 수 있도록 도와 주는 EMBASE만의 EBM/SRs 문헌검색 기능

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)
- 8,500가지 이상의 저널 타이틀과 EMBASE 만의 2,800여종 저널 추가 제공 (+5.9m 레코드)
- 출간물, peer-reviewed literature, 출간예정인 아티클, 회의초록
- EMBASE(1947년-현재)와 MEDLINE(1966년-현재)의 자료가 통합된 Database
- Life Science 분야의 Thesaurus Emtree (질병, 약물, 메디컬 장비 등)를 통한 강력한 통합 검색
- Drugs, Disease, Medical device 부제목을 통해 빠르고 편리한 검색
- 증거기반의학(EBM)과 체계적문헌고찰 (SRs)을 위한 신뢰도 높은 자료 검색 제공

Part 1. EMBASE VS PUBMED (MEDLINE)

1. Recommended by (regulatory) authorities
2. 컨테츠 양 및 검색 결과 양 (content coverage)
3. 색인통제어휘 (Browsing Thesaurus)

1. Recommended by (regulatory) authorities

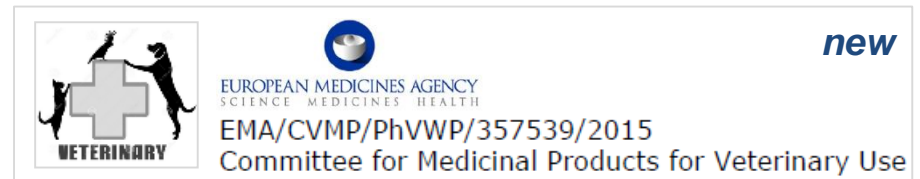
- **EMA** for Pharmacovigilance
- **European Commission** for Clinical Evaluation Reporting of medical devices
- **NICE** and **Cochrane** for Evidence based medicine

*The Cochrane Handbook*에서는 *High-Quality Systematic Review*를 위해 *MEDLINE*과 *EMBASE* 모두 검색 할 것을 권장합니다.



EUROPEAN COMMISSION *new*
ENTERPRISE AND INDUSTRY DIRECTORATE GENERAL

Consumer Goods
 Cosmetics and Medical Devices

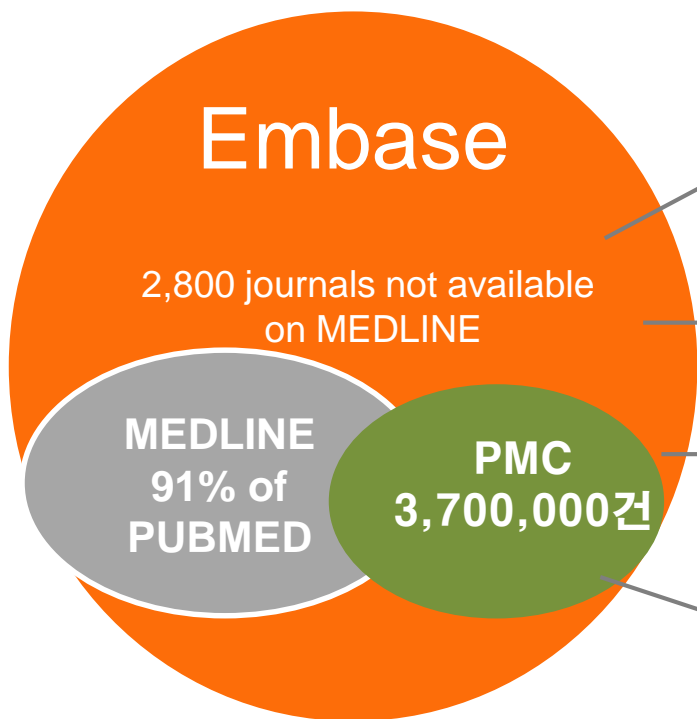


NICE National Institute for
 Health and Care Excellence

 **Cochrane**

2. EMBASE 콘텐츠

Over **8,500 Journals/31 Million** Records!



Embase

Much more coverage of **non-English** content and RCTs/ controlled clinical trials

Cochrane reviews and meta-analyses

Q: PMC 저널을 EMBASE에서 바로 확인 가능한가요?

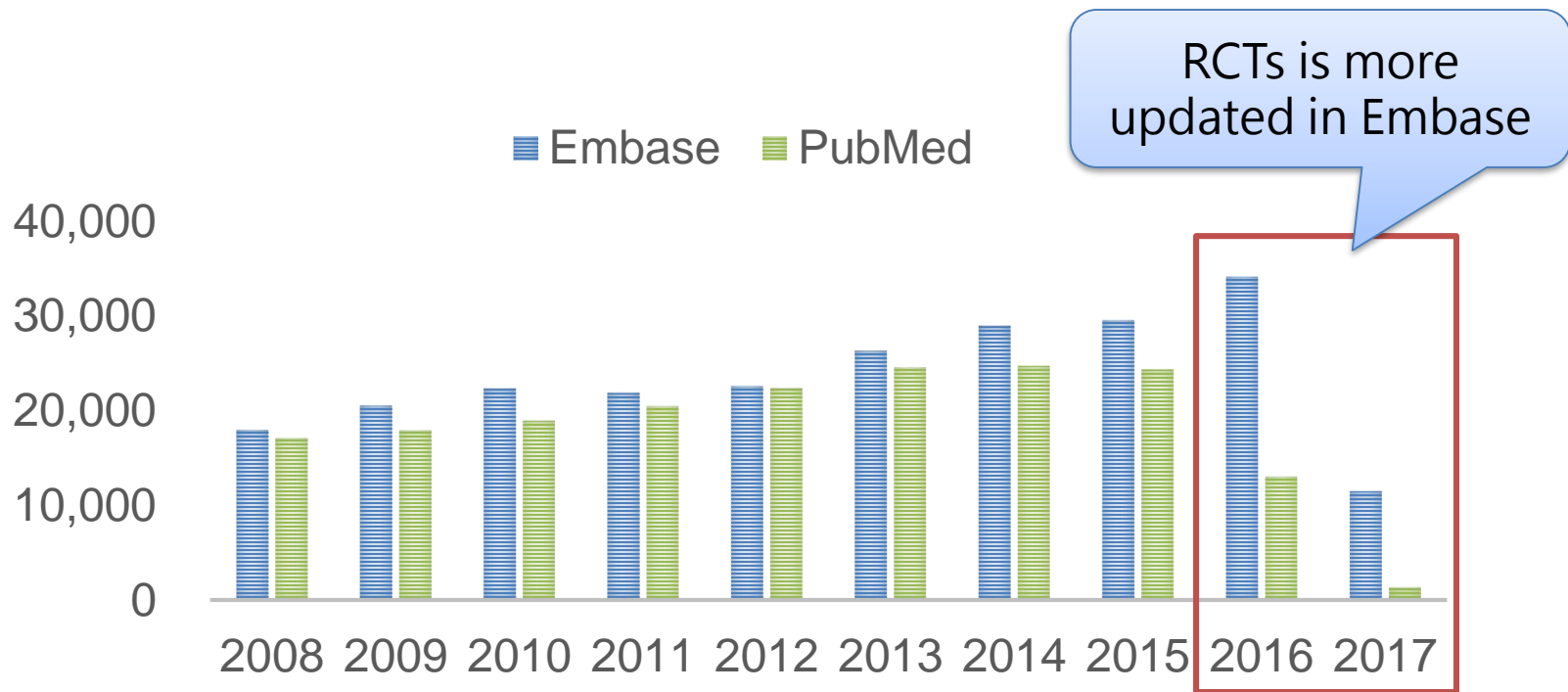
Embase Unique

5.9m records 2800 journals
over 2+M conference abstracts from +5,500 conferences Since 2009 In Press (unpublished)
Embase & Medline 11.8M 3,000
Medline on Embase 8.3M 2,500

Embase is Internationally Recognized and Recommended

27% more RCTs in recent 10 years

EMBASE는 SRS에서 중요한 연구 SR/ EBM에 대한 중요한 연구 유형인 무작위 대조군 연구보고서 RCTs를 MEDLINE보다 많이 제공하며, 특히 영어 이외의 언어로 자료를 제공합니다



2017.5.16 updated

3. Thesaurus (시소러스) & Index term (색인용어)

Thesaurus (시소러스)

용어의 사용법과 용어들 사이의 관계에 대한 정보를 제공하는 어휘 도구
용어의 관계성은 일반적으로 상위 개념(BT: broader term), 하위 개념(NT: Narrower Term), 용례 혹은 동의어(UF: Use For Or Synonymous), 관계어(RT: Related Term), 대체어(USE) 등으로 분류되는데, 시소러스는 이러한 관계성을 이용, 탐색시 질의에 포함된 용어의 의미를 확대하기 위해 주로 사용된다.

Index term (색인용어): 검색의 정확도를 높여줍니다.

색인전문가들이 통일성 있는 용어로 논문 주제를 색인 함으로써, 저자마다 다양하게 표현하지만 동일한 개념을 누락 없이 검색

MEDLINE의 MeSH

- **Medical Subject Headings**의 약어로, 미국 국립의학도서관(NLM)에서 만든 통제어휘 시소러스
- 하나의 논문에는 평균 8-15개의 MeSH 용어가 주어지며, 그 중 그 논문의 내용을 대표하는 용어는 "*"로 표시
- 학술지에 논문 투고 시 국제의학학술지편집인 협의회(International Committee of Medical Journal Editors: ICMJE)에서도 논문 저자 키워드를 MeSH에 의해 작성하도록 규정

EMBASE- Emtree

Life Science 분야의 통제어휘 시소러스

1. **75,488 개 이상의 우선어** (+31,000 개 약물 우선어) 와 **310,000 개 이상의 동의어** (186,000 약물 동의어 포함) - Medline (ca. 27,000 개 우선어/8,800 약물 우선어)
2. **모든 MeSH 용어 포함** 및 23,000 개 이상의 CAS registry number
3. 모든 약물 (31,000 개 이상의 generic drugs, 화학명, 상품명 포함) 및 화학 물질 정보는 Emtree에 포함 (FDA, EMEA and WHO)
4. 3,000 이상의 일반 및 의료장비 용어와 (e.g. endoscopes, catheters, prostheses) medical procedures와 연관된 수천 가지 용어 (e.g. endoscopy, catheterization)
5. 최신 약물, 질병, organisms and procedures 는 Medline과 비교해 연간 3배 이상 추가 색인됩니다. (with back-posting of older records).
6. 신약 용어는 Emtree에 먼저 업데이트됩니다.
7. 모든 약물, 제너릭 네임 포함 (described by FDA and EMA, all International Non-Proprietary Names (INNs) described by WHO from 2000)

Emtree (Embase) Vs MeSH (Medline)

EMTREE 정확하고, 빠른 업데이트

	Emtree	MeSH
우선어 (포함 어휘)	> 82,000	> 27,000
동의어(Entry terms)	> 370,000	> 220,000
업데이트 주기	연 3회	연 1회

COMPARISON FOR EBN (Evidence Based Nursing) RELATED KEYWORDS

Keywords	Embase	Pubmed	Fold
Health Care	4,889,888	1,629,861	3.00
Nursing	795,844	673,815	1.18
Long Term Care	1,367,752	108,429	12.61
Elderly Care	73,902	2,322	31.83

Medline보다 훨씬 많은 약물 우선어, 동의어 포함
 PubMed 대비 평균 74% 더 많은 reference 정보
 PubMed 만을 이용 시 25% 이상의 Clinical Trial Data missing

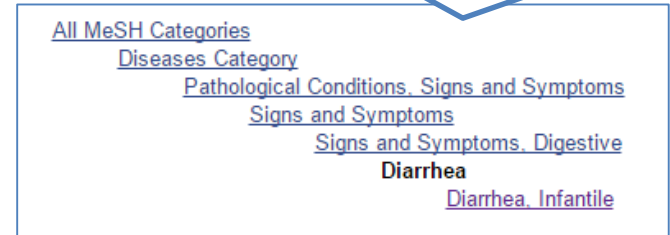
Emtree (Embase) Vs MeSH (Medline)

EMTREE 정확하고, 빠른 업데이트

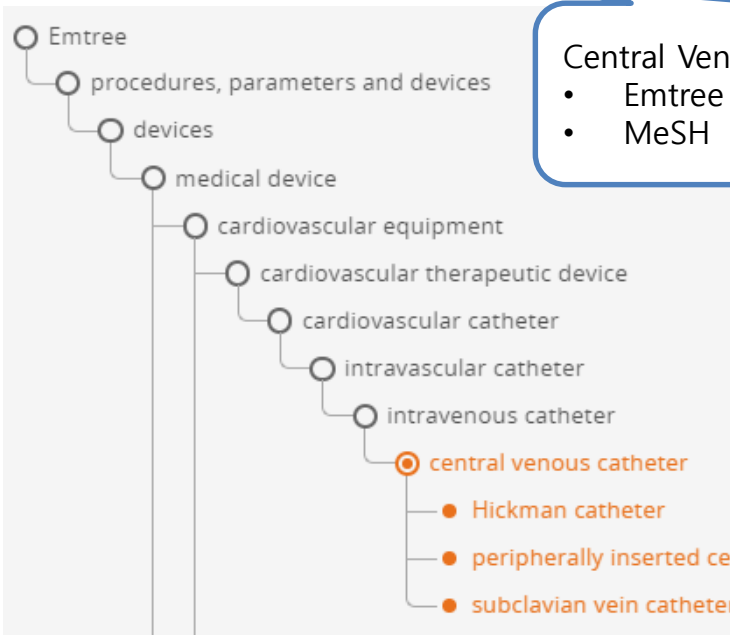
MeSH 검색결과



- 'Diarrhea' Emtree 에서는 12 개 하위용어로 세분화
- MeSH 1개 용어



- Central Venous Catheters
- Emtree 3개 하위용어/13동의어
 - MeSH 1개 용어/ 5개 동의어



Emtree 검색결과

- diarrhea
 - acute diarrhea
 - antibiotic associated diarrhea
 - bloody diarrhea
 - chloride diarrhea
 - chronic diarrhea
 - experimental diarrhea
 - infantile diarrhea
 - infectious diarrhea
 - serotonin syndrome
 - steatorrhea
 - traveller diarrhea
 - Verner Morrison syndrome

Emtree TCM: focus on adding Traditional Chinese Medicine (TCM) terms

- In preparation of a project to facilitate standardized searches on TCM concepts in Embase we expanded Emtree's initial branch of 19 acupuncture points (acupoints) to 361 classical acupuncture points that are classified by the 14 meridians/vessels. We added more than 15,000 relevant synonyms to facilitate search/discovery by variations in use of pinyin and the current WHO-endorsed (alphanumeric) coding system, as well as previously used coding systems.
- In next releases of Emtree we will continue expanding on terminology needed to also cover other aspects of TCM.

Part 2. 특이도 검색 (Specificity search, In-Depth)

많은 검색 결과 없이 몇 개의 좋은 논문을 찾고자 한다면 특이도 검색을 수행한다

- 부적절한 문헌을 배제할 가능성
- 지식을 위한 문헌 검색
- 특정문제에 대한 중요 논문포함
- 주된 용도
 - **Focused Searching**
 - 근거중심 진료를 위한 검색



약물검색 (Drug Search), Search → Drug search

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

Drug
Quick

'clopidogrel' **1** 약물명 입력 **2**

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

Subheadings Clear page selections Collapse

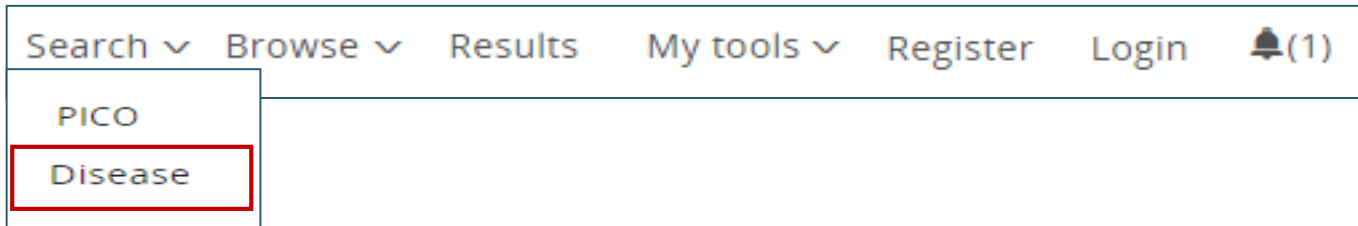
<input type="checkbox"/> Adverse drug reaction	<input type="checkbox"/> Drug concentration	<input type="checkbox"/> Endogenous compound
<input type="checkbox"/> Clinical trial	<input type="checkbox"/> Drug development	<input type="checkbox"/> Pharmaceutics
<input type="checkbox"/> Drug administration	<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

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

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

질병검색 (Disease Search), Search → Disease search



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 **2** Clear page selections Collapse

Adverse device effect
 Device comparison
 Device economics
 Clinical trial

OR AND

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

특정 임상문제에 대한 중요 논문 검색

검색 예: **Stroke(뇌졸중)** 환자의 재발을 **방지**하기 위해 사용되는 항응고제 **Warfarin**의 **약물 부작용**

Disease Search

'cerebrovascular accident'

Search > Mapping ▾ Date ▾ Sources ▾ Fields ▾ Disease subheadings ▲ Q

Disease subheadings

<input type="checkbox"/> Complication	<input type="checkbox"/> Epidemiology
<input type="checkbox"/> Congenital disorder	<input type="checkbox"/> Etiology
<input type="checkbox"/> Diagnosis	<input checked="" 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

Drug Search

'warfarin'

Search > Mapping ▾ Date ▾ Sources ▾ Drug fields ▾ Drug subheadings ▲ Q

Subheadings

<input checked="" type="checkbox"/> Adverse drug reaction	<input type="checkbox"/> Drug concentration
<input type="checkbox"/> Clinical trial	<input type="checkbox"/> Drug development
<input type="checkbox"/> Drug administration	<input type="checkbox"/> Drug dose
<input type="checkbox"/> Drug analysis	<input type="checkbox"/> Drug interaction
<input type="checkbox"/> Drug combination	<input type="checkbox"/> Drug therapy
<input type="checkbox"/> Drug comparison	<input checked="" type="checkbox"/> Drug toxicity

OR AND

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

<input type="checkbox"/> #11	#10 AND 'clinical trial'/de AND [adult]/lim	56
<input type="checkbox"/> #10	#8 AND #9	1,894
<input type="checkbox"/> #9	'warfarin'/exp/dd_ae,dd_to,dd_pk	13,566
<input type="checkbox"/> #8	'cerebrovascular accident'/exp/dm_pc	18,986

Part 3. 민감도 검색, Comprehensive Search

철저한 검색을 원하거나 실제 검색에서 원하는 내용을 찾지 못했다면 민감도 검색

- 적절한 문헌을 찾을 가능성
- 연구를 위한 문헌 검색
- 해당 연구 논문 모두 포함
- 주된 용도
 - 체계적 고찰
 - 논문 쓰기
 - 연구계획서 쓰기
 - 임상진료지침 개발

1. 선행연구조사, 연구주제 탐색
2. 연구주제 선정 및 PICO 설계
3. 검색 DBs 선정 (소스 파악 및 DBs별 검색 전략 설계)
4. 수집자료 자료 분석 방법

1. 선행연구 검색

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

검색 예: 제2형 당뇨병환자 (Type 2 Diabetes Mellitus Patients)의 생활습관 개선 (Drug therapy)에 따른 당화혈색소 (HbA1c, glucose level) 조절 결과

The screenshot shows a search interface with the following elements:

- Search:** A search bar with a dropdown menu set to "All fields".
- Search Criteria:** Three criteria are entered: "non insulin dependent diabetes mellitus", "'drug therapy'", and "'life style modification'".
- Filters:**
 - AND:** Three "AND" operators are used to combine the search criteria.
 - Limit to:**
 - Publication years (including):** 2010 to 2017.
 - Records added to Embase:** 1-1-2016 to 31-12-2016.
 - Evidence Based Medicine:** Cochrane Review, Systematic Review, Controlled Clinical Trial, and Randomized Controlled Trial.
- Results:** A button labeled "Show 40 results" is circled in red.

'non insulin dependent diabetes mellitus' AND 'drug therapy' AND 'lifestyle modification' AND 'glucose blood level' AND ([cochrane review]/lim OR [systematic review]/lim)	52
'non insulin dependent diabetes mellitus' AND 'drug therapy' AND 'lifestyle modification' AND 'glucose blood level' AND ([cochrane review]/lim OR [systematic review]/lim) AND [2010-2017]/py	40

선행연구 참고하기

Insulin secretagogues for prevention or delay of type 2 diabetes mellitus and its increased risk for the development of type 2 diabetes mellitus

Hemmingsen B., Sonne D.P., Metzendorf M.-I., Richter B.

Cochrane Database of Systematic Reviews 2016 2016:10 Article Number CD012151

Embase

▼ Abstract

▼ Index Terms

▶ View Full Text

Search methods

We searched the Cochrane Central Register of Controlled Trials, MEDLINE, PubMed, Embase, ClinicalTrials.gov, the World Health Organization International Clinical Trials Registry Platform, and the reference lists of systematic reviews, articles and health technology assessment reports. We asked investigators of the included trials for information about additional trials. The date of the last search of all databases was April 2016.

Data collection and analysis

Two review authors read all abstracts and full-text articles/records, assessed quality and extracted outcome data independently. One review author extracted data which were checked by a second review author. We resolved discrepancies by consensus or the involvement of a third review author. For meta-analyses we used a random-effects model with investigation of risk ratios (RRs) for dichotomous outcomes and mean differences (MDs) for continuous outcomes, using 95% confidence intervals (CIs) for effect estimates. We carried out trial sequential analyses (TSAs) for all outcomes that could be meta-analysed. We assessed the overall quality of the evidence by using the GRADE instrument.

선행 연구 참고

- 검색된 이미 출판된 **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

CENTRAL and MEDLINE Strategy
(MEDLINE search combined with RCT
search filter)

#1 MeSH descriptor Bronchiectasis explode all trees
#2 bronchiect*
#3 (#1 OR #2)
#4 MeSH descriptor Adrenal Cortex Hormones explode all trees
#5 steroid*
#6 corticosteroid*
#7 glucocorticoid*
#8 beclomet*
#9 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)

EMBASE Strategy
(Combined with RCT search filter)

#1 Emtree descriptor Bronchiectasis explode all trees
#2 bronchiect*
#3 (#1 OR #2)
#4 Emtree descriptor Corticosteroid explode 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)

PICO 검색전략

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

P = Patient

AND

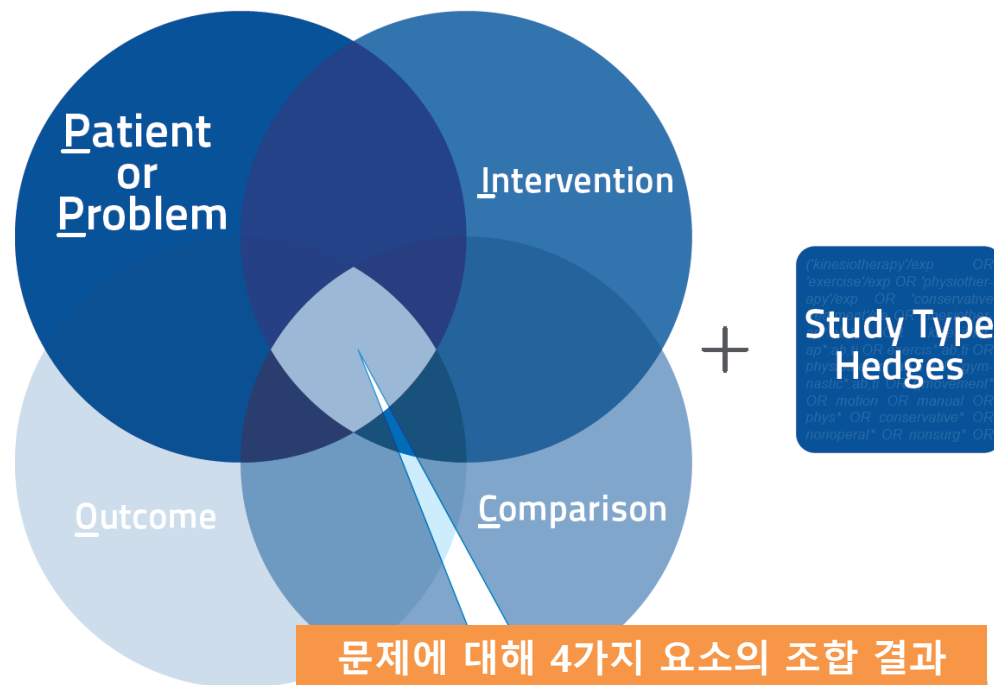
I = Intervention

AND

C = Comparison/control

AND

O = Outcome



The PICO Framework (Sackett et al, 1997)

'Study hedge' 는 무작위 대조 실험 (RCTs), 체계적인 리뷰 및 메타 분석 등 다양한 검색 유형에서 진단, 예방, 예후 및 치료 등과 같은 임상 개념을 검색합니다.

2. 연구주제 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	검사용용성의 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

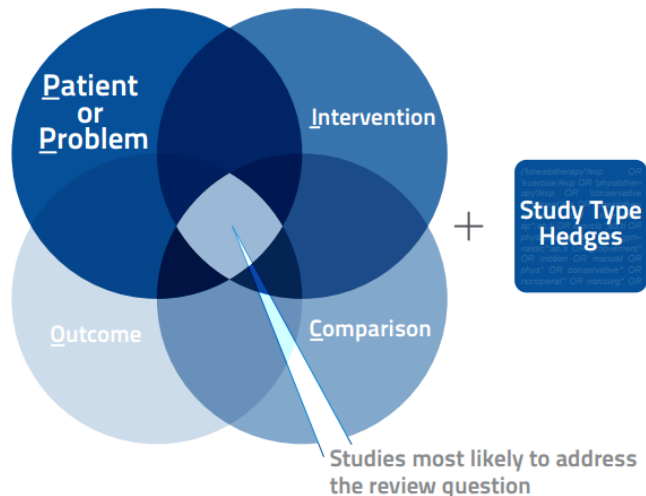
PICO 검색

검색 키워드 PICO -치료 연구

검색 예 : 중심정맥 카테터 환자(P)에서, Heparin 플러시 라인을 사용했을 때(I) 생리식염수를 이용하는 것보다 (C) 낮은 비율의 폐색 발생하는지 (O)?

Browse Emtree

P	I	C	O
<u>Central Venous Catheter</u>	<u>Heparin</u>	<u>saline</u>	<u>occlusion</u>



PICO 키워드 확장

(Study type)

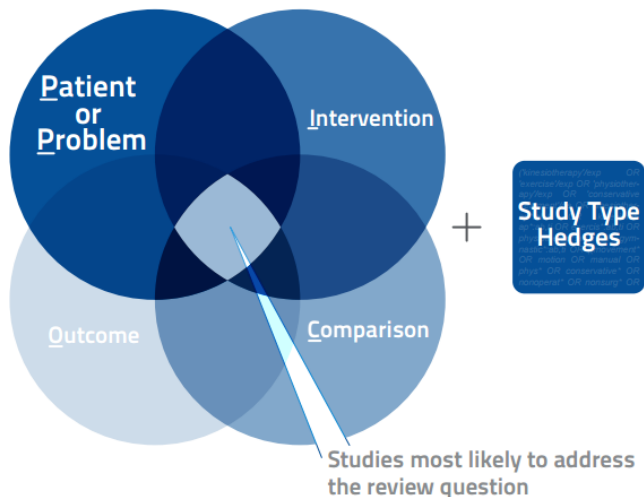
PICO 검색

검색 키워드 PICO - 예방

검색 예: 욕창을 방지하기 위해 공기 침대를 사용하는 것이 효과가 있는지?

Browse Emtree

P	I	C	O
<u>Bed sore</u>	<u>Air mattress</u>		<u>Prevent*</u>



PICO 키워드 확장



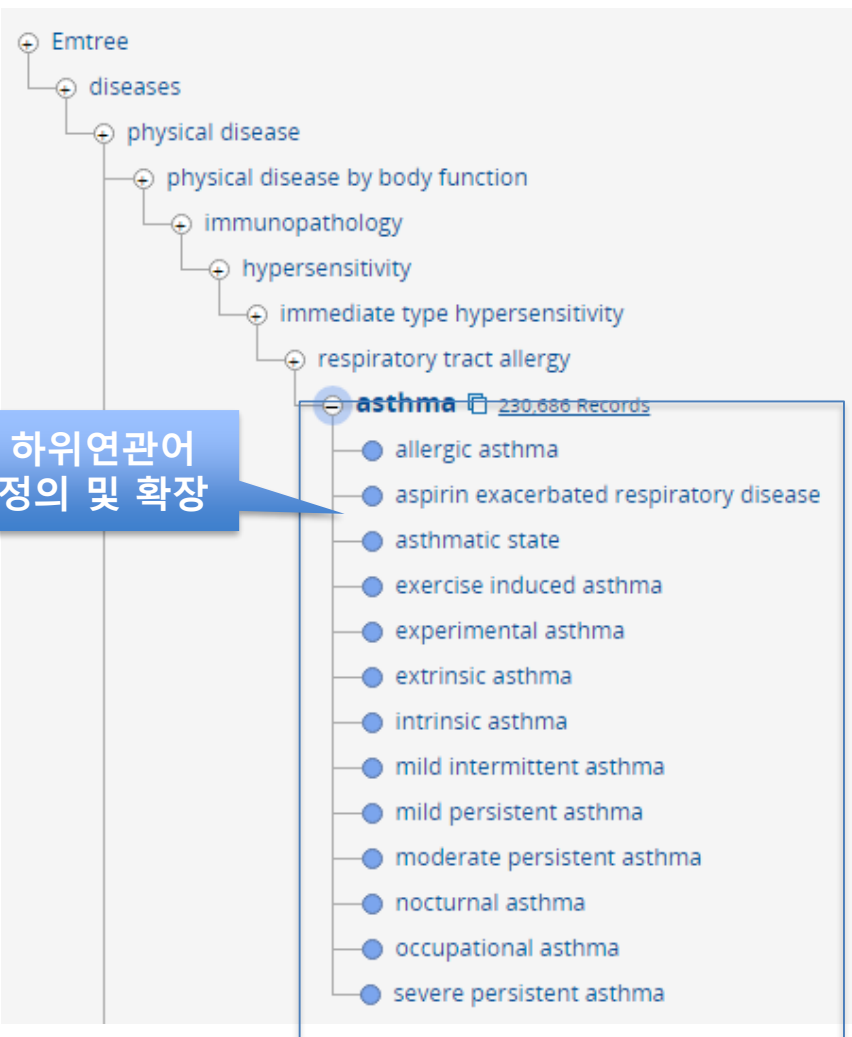
(Study type)

3. 최종 검색 전략 PICO 수립

검색 예: 제2형 당뇨병 환자의 생활습관 개선에 따른 당화혈색소 (HbA1c) 조절 결과

Population	제2형 당뇨병 환자	Type 2 Diabetes Mellitus Patients <ul style="list-style-type: none"> - Diabetes/ Glucosuria/Glycosuria - Insulin dependent diabetes - Non- insulin dependent diabetes
Intervention	당뇨병 치료제 처방	Drug therapy <ul style="list-style-type: none"> - Medication therapy management - Prescription drug* - Performance enhancing substance* - Controlled substance*
Comparator	생활습관 개선	Modified Life style lifestyle modification/ Diabetic diet/diet restriction/ exercise therapy
Outcome	당화혈색소 조절목표 도달	HbA1c Control <ul style="list-style-type: none"> - blood glucose level, blood sugar lowering, - Glycated hemoglobin - Improved management of glucose levels - managing diabetes /antidiabetic effect/ - clinical effectiveness/ Comparative effect/Therapy effect
Type / Methods	RCT, Meta-analysis, Systematic review, Cohort, Prospective	RCT, Meta-analysis, Systematic review, Cohort, Prospective
진료환경 (Healthcare setting)	외래	Ambulatory

4. Emtree를 이용해서 연구 주제어 정의/ 검색 동의어 확장하기



Embase®

asthma

230,686 records found

History

This term was added to Emtree in 1974

동의어 개념 확장

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

Review Questions and Study Designs

Type of Question	Study Type
Etiology	Cohort, Case-control
Therapy	RCT
Prognosis	Cohort
Harm	Cohort, Case-control
Diagnosis	Cross-sectional, Case-control
Economic	Cost-effectiveness analysis, Resource utilization, etc.

Note – Questions that can be answered best by RCT may be answered by meta-analysis and systematic reviews also

For example, http://hiru.mcmaster.ca/hiru/HIRU_Hedges_EMBASE_Strategies.aspx

suggests a therapy hedge that maximizes sensitivity:

random* OR (clinical NEXT/1 trial*) OR 'health care quality'/exp

http://help.elsevier.com/app/answers/detail/a_id/5515/p/9754/kw/hedges

Part 4. EMBASE 검색 노하우

1. 검색범위 (검색 정확도 VS 검색 결과문헌 수의 관계)
2. 필수 검색연산자 연습하기
3. 검색 예 데모 시연
4. 알아 두면 유용한 검색 필터 기능들

1. 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 >

<input type="checkbox"/> #4	'neoplasm'/exp OR 'neoplasm'	<input type="radio"/> /mj Major focus	286,074 results
<input type="checkbox"/> #3	'neoplasm'/exp	<input type="radio"/> /de Index term	704,331 results
<input type="checkbox"/> #2	'neoplasm'/de	<input checked="" type="radio"/> /exp Explosion	4,019,716 results
<input type="checkbox"/> #1	'neoplasm'/mj	<input type="radio"/> /br As broad as possible	4,024,461 results

Embase 검색 범위 (검색용어의 범위)

Embase 검색 옵션	설명	PubMed 검색옵션
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	Automatic term mapping
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....	All fields 검색
Explode using narrower Emtree terms	Emtree 하위 용어까지 확장 검색	Mesh explode
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	Automatic term mapping
Limit to terms indexed in article as 'major focus'	논문 중에서 가장 중요한 main topic을 Indexer가 부여 이 옵션을 선택하면 용어 색인이 있지만 아이클에서 주요 주제어로 간주되지 않는 모든 기록은 제외되며, 이 옵션을 해제하면, 검색은 아티클 내에서 주요 주제어가 아닐지라도 검색어로 인덱스된 레코드가 검색이 됩니다.	Mesh major topic

자주 이용하는 EMBASE 검색 범위 field (기호)

Most commonly used *field* codes

Label	Field
de	Index term
exp	Explosion
ab	Abstract
ti	Article title
ca	Country of author
cy	Country of journal
la	Language of article
py	Publication year
sd	Entry date (since date)

Label	Field
ta	Abbreviated journal title
ab	Abstract
an	Accession number
ti	Article title
ad	Author address
em	Author email
au	Author name
rn	CAS Registry Number
cn	Clinical trial number
cd	CODEN
dc	Conference date
ed	Conference editor
lc	Conference location
nc	Conference name
ca	Country of author
cy	Country of journal
dv	Device index term
df	Device manufacturer
dn	Device trade name
dm	Disease index term
dd	Drug index term
mn	Drug manufacturer
tn	Drug trade name

syn	Explode with synonyms
exp	Explosion
de	Index term
ib	ISBN
is	ISSN
ip	Issue
la	Language of article
ls	Language of summary
lim	Limit
mj	Major term
ms	Molecular sequence number
tt	Original non-English title
pg	Page range
pd	Publication date
it	Publication type
py	Publication year
ii	Publisher item identifier
id	Record number

- /mj Major focus
- /de Index term
- /exp **Explosion**
- /br As broad as possible

PUBMED 검색 field

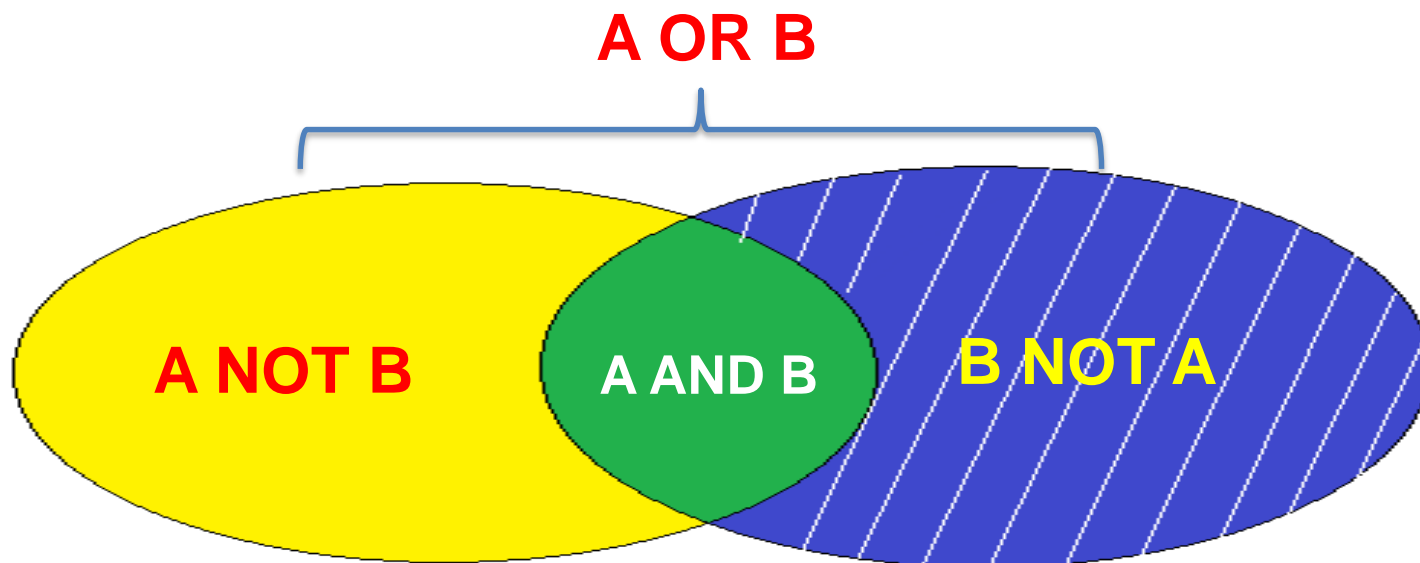
<u>Affiliation [AD]</u>	<u>Issue [IP]</u>	<u>Place of Publication</u>
<u>Article Identifier [AID]</u>	<u>Journal Title [TA]</u>	<u>[PL]</u>
<u>All Fields [ALL]</u>	<u>Language [LA]</u>	<u>PMCID & MID</u>
<u>Author [AU]</u>	<u>Last Author [LASTAU]</u>	<u>Publication Date [DP]</u>
<u>Comment Corrections</u>	<u>Location ID [LID]</u>	<u>Publication Type [PT]</u>
<u>Corporate Author [CN]</u>	<u>MeSH Date [MHDA]</u>	<u>Secondary Source ID</u>
<u>Create Date [CRDT]</u>	<u>MeSH Major Topic [MAJR]</u>	<u>[SI]</u>
<u>EC/RN Number [RN]</u>	<u>MeSH Subheadings [SH]</u>	<u>Subset [SB]</u>
<u>Entrez Date [EDAT]</u>	<u>MeSH Terms [MH]</u>	<u>Substance Name [NM]</u>
<u>Filter [FILTER]</u>	<u>NLM Unique ID [JID]</u>	<u>Text Words [TW]</u>
<u>First Author Name [1AU]</u>	<u>Other Term [OT]</u>	<u>Title [TI]</u>
<u>Full Author Name [FAU]</u>	<u>Owner</u>	<u>Title/Abstract [TIAB]</u>
<u>Full Investigator Name</u>	<u>Pagination [PG]</u>	<u>Transliterated Title</u>
<u>[FIR]</u>	<u>Personal Name as Subject [PS]</u>	<u>[TT]</u>
<u>Grant Number [GR]</u>	<u>Pharmacological Action MeSH Terms</u>	<u>UID [PMID]</u>
<u>Investigator [IR]</u>	<u>[PA]</u>	<u>Volume [VI]</u>

2. 다양한 검색 연산자 (대문자)- Search tips

□ 부울린 연산자 Boolean operators

AND	depression AND tricyclic	단어 나 구를 모두 레코드에 있는 경우 (P AND I AND C AND O)
OR	elderly OR geriatric OR aged	적어도 하나의 단어 나 문장은 레코드에 있는 경우 (동의어 검색)
NOT	depression NOT tricyclic	NOT 전에 단어 문구가 레코드에 있고 NOT 뒤에 단어 나 구문은 제외 non small cell lung cancer NOT large cell lung carcinoma

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



2. 다양한 검색 연산자 (대문자)- Search tips

□인접검색 Proximity operators – 정확도가 높아집니다.

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

근접 및 부울 연산자를 결합하여 보다 복잡한 단일 검색을 만들기 위해 괄호를 사용

clinical NEXT/2 (application* OR trial) NEAR/10 biomarker* NEAR/10 (treatment OR disease)

(adverse OR side OR undesirable) NEXT/2 (effect* OR reaction* OR event* OR outcome*)

2. 다양한 검색 연산자(대문자)- 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 infarction' 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 예:

- Adverse NEXT/2 effect* - AND/ NEAR와 비교
- Heart attack VS. 'heart attack'
- Warfarin
- #1 AND #2 AND #3

⌘ 다른 DB 검색어 복사/붙여넣기 시 주의사항

((exercise* or fitness) **adj3** (treatment or intervent* or program*)).**tiab**

((exercise* OR fitness) **NEAR/3** (treatment OR intervent* OR program*)):**ab,ti**

adj3 = NEXT/3 or NEAR/3 로, tiab = title / abstract

EMBASE 고급검색- 검색범위 지정 및 검색연산자 결합하기

검색 예: 아토피 피부염환자에게 면역 치료와 국소 치료/스테로이드의 결과 비교

The screenshot displays the EMBASE search interface with a list of search filters and their combination options. The interface includes a 'History' section with a 'Combine' button and a 'using' dropdown menu set to 'And'. The search filters are as follows:

Filter ID	Search Query	Selected
#12	'systematic review'/exp OR 'randomized controlled study'/exp OR 'metaanalyses'/exp	Yes
#10	'clinical effectiveness' OR 'comparative effectiveness' OR 'therapy or therapeuti* and effect'	Yes
#9	#7 OR #8	Yes
#8	topical OR calcineurin OR tacrolimus OR pimecrolimus OR cyclosporine	No
#7	'topical drug administration'/exp OR 'antiallergic agent'/exp OR 'corticosteroid'/exp OR 'calcineurin inhibitor'/exp	No
#6	#4 OR #5	Yes
#5	'azathiopine' OR 'mycophenolate mofetil' OR methotrexate OR 'interferon γ ' OR 'interferon gamma' OR intravenous AND	No
#4	'immunosuppressive agent'/exp	No
#3	#1 OR #2	Yes
#2	'atopic eczema':ab,ti OR 'atopy':ab,ti	No
#1	'atopic dermatitis'/exp	No

다양한 검색 연산자 사용 비교

<input type="checkbox"/>	#12	#9 AND #10 AND #11	81
<input type="checkbox"/>	#11	'hip osteoarthritis'/exp OR 'h ip osteoarthritis'	9,946
<input type="checkbox"/>	#10	'kinesiotherapy'/exp OR 'exercise'/exp OR 'physiotherapy'/exp	356,194
<input type="checkbox"/>	#9	'clinical effectiveness'/exp OR 'clinical effectiveness' OR 'program effectiveness'/exp OR 'program effectiveness' OR 'programme effectiveness' OR 'cost effectiveness analysis'/exp OR 'cost effectiveness' OR 'comparative effectiveness'/exp OR 'comparative effectiveness'	224,681
<input type="checkbox"/>	#8	#5 AND #6 AND #7	152
<input type="checkbox"/>	#7	'hip osteoarthritis'/exp OR 'hip osteoarthritis' OR ('arthritis'/exp OR 'arthritis' OR 'osteoarthritis'/exp OR 'osteoarthritis' AND ('hip'/exp OR 'hip'))	34,240
<input type="checkbox"/>	#6	'kinesiotherapy'/exp OR 'exercise'/exp OR 'physiotherapy'/exp OR 'conservative treatment'/de OR 'non operative' OR 'non surgical'	428,003
<input type="checkbox"/>	#5	'clinical effectiveness'/exp OR 'comparative effectiveness'/exp OR 'cost effectiveness analysis'/exp OR 'program cost effectiveness'/exp OR 'program effectiveness'/exp	196,713
<input type="checkbox"/>	#4	#1 AND #2 AND #3	684
<input type="checkbox"/>	#3	'clinical effectiveness'/exp OR 'comparative effectiveness'/exp OR 'cost effectiveness analysis'/exp OR 'program cost effectiveness'/exp OR 'program effectiveness'/exp OR effectiv*:ab,ti	1,946,731
<input type="checkbox"/>	#2	'kinesiotherapy'/exp OR 'exercise'/exp OR 'physiotherapy'/exp OR 'conservative treatment'/de OR kinesiotherap*:ab,ti OR kinesitherap*:ab,ti OR exercis*:ab,ti OR physiotherap*:ab,ti OR gymnastic*:ab,ti OR ((movement* OR motion OR manual OR phys* OR conservative* OR nonoperat* OR nonsurg* OR 'non operative' OR 'non surgical' OR paramedic* OR 'para medical') NEAR/3 (technique* OR therap* OR treat* OR isokinet* OR isomet* OR water OR management*)):ab,ti OR ((muscle* OR muscul*) NEAR/3 train*):ab,ti	680,795
<input type="checkbox"/>	#1	'hip osteoarthritis'/exp OR 'hip osteoarthritis' OR ('arthritis'/exp OR 'arthritis' OR 'osteoarthritis'/exp OR 'osteoarthritis' AND ('hip'/exp OR 'hip')) OR coxarth*:ab,ti OR ((hip OR cox) NEAR/6 (arthrit* OR arthrosis* OR arthroses* OR osteoarth* OR oa)):ab,ti OR 'malum coxae senilis':ab,ti	35,564

1. 다양한 관련 용어를 사용한 검색 – Emtree / 연구자의 전문지식/ 경험에서 용어의 이해와 선택
2. 검색 범위 지정 – 넓은 검색 부터 좁은 검색
3. 다양한 truncation (*), phrase 구성, AND/ NEAR/ OR/ NEXT 조합 구성
4. 연구자의 Try/ Error 를 통한 검색 결과 비교 수정 반복

알아두면 유용한 검색 필터들 - 특정언어-문헌만 골라보기

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

Quick limits

<input type="checkbox"/> Humans	<input type="checkbox"/> With abstract	<input type="checkbox"/> Article in Press
<input type="checkbox"/> Animals	<input type="checkbox"/> Priority journals	<input type="checkbox"/> In Process
<input type="checkbox"/> Clinical studies	<input checked="" type="checkbox"/> Only in English	

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

Article languages

<input type="checkbox"/> Afrikaans	<input type="checkbox"/> Belarusian	<input type="checkbox"/> Chinese	<input type="checkbox"/> Esperanto
<input type="checkbox"/> Albanian	<input type="checkbox"/> Bengali	<input type="checkbox"/> Croatian	<input type="checkbox"/> Estonian
<input type="checkbox"/> Arabic	<input type="checkbox"/> Bosnian	<input type="checkbox"/> Czech	<input type="checkbox"/> Finnish
<input type="checkbox"/> Armenian	<input type="checkbox"/> Bulgarian	<input type="checkbox"/> Danish	<input type="checkbox"/> French
<input type="checkbox"/> Azerbaijani	<input type="checkbox"/> Burmese	<input type="checkbox"/> Dutch	<input type="checkbox"/> Georgian
<input type="checkbox"/> Basque	<input type="checkbox"/> Catalan	<input type="checkbox"/> English	<input type="checkbox"/> German

Show additional filters

Additional filters

- Text availability
- Publication dates
- Species
- Article types
- Languages
- Sex
- Subjects
- Journal categories
- Ages
- Search fields

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Text availability
Abstract available
Free full text available
Full text available

Publication dates
5 years
10 years
Custom range...

Species
Humans
Other Animals

Article types
Review
more ...

Languages
English
more ...

Clear all

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3. Chmielewski R, Swayne DE. Annu Rev Food Sci Technol. 2011;2:37-57. Review. PMID: 22129374 [PubMed - indexed for MEDLINE] [Related citations](#)

4. Genetic characterization of low pathogenicity H5N1 viruses in mallards (Anas platyrhynchos) in Belgium. Van Borm S, Vangeluwe D, Steensels M, et al. Avian Pathol. 2011 Dec;40(6):613-28. doi: 10.1017/S0950268811000613. PMID: 22107096 [PubMed - indexed for MEDLINE] [Related citations](#)

5. Evidence of infection with H4 and H11 avian influenza viruses in wild birds. Kayali G, Barbour E, Dbaiibo G, Tabet C, et al. PLoS One. 2011;6(10):e26818. Epub 2011 Oct 10. PMID: 22041111 [PubMed - indexed for MEDLINE] [Related citations](#)

알아두면 유용한 검색 필터들 -소스문헌 골라보기

Search > Mapping ▾ Date ▾ Sources ▲ Fields ▾ Quick limits ▾

Sources

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Additional filters

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 - Abstract available
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- Publication dates
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- Species
 - Human
- Article types
 - Languages
- Sex
- Subjects
- Journal categories
- Ages
- Search fields

Search > Mapping ▾ Date ▾ Sources ▾ Fields ▾ Quick limits ▾ EBM ▲

Evidence Based Medicine

- Cochrane Review
- Systematic Review
- Meta Analysis
- Controlled Clinical Trial
- Randomized Controlled Trial

Primary, 20 per page, Sort

23

[the NS genes of H5N1](#)

Song KY, Chen TM, Li J, et al. *Chin J Med*. 2012 May;28(3):265-71. Chin J Med - indexed for MEDLINE

[N2 seroprevalence among health care workers](#)

BV, Raut CG, Parkhi M, et al. *Epub* 2012 May 1. Chin J Med - indexed for MEDLINE

[Public health and food safety](#)

De. *Chin J Med*. 2011;2:37-57. Review - indexed for MEDLINE

[Prevalence of low pathogenicity avian influenza \(H5N1\) in Belgium](#)

luwe D, Steensels M, et al. *Epub* 2011 Oct 1. *PLoS One*. 2011;6(10):e26818. doi: 10.1371/journal.pone.0026818. Epub 2011 Oct 1.

Evidence of infection with H4 and H11 avian influenza viruses

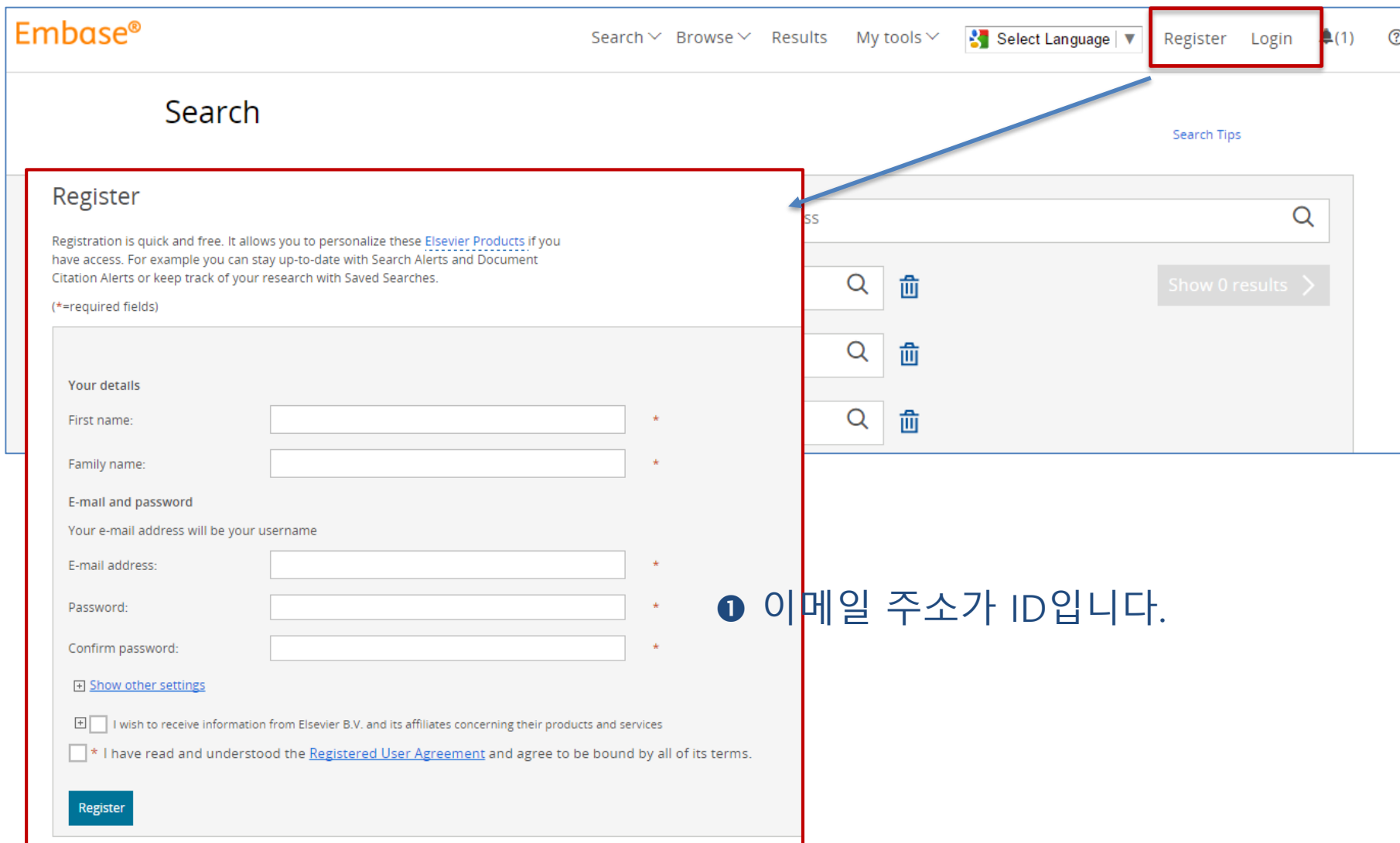
5. Kayali G, Barbour E, Dbaibo G, Tabet C, et al. *PLoS One*. 2011;6(10):e26818. Epub 2011 Oct 1.

Part 5. 결과 관리 기능

- 검색식 저장관리/ 편집/ 최신정보 업데이트 설정
- 검색 결과 반출하기
- 원문 보기

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 Output: RIS format (Reference Manager, ProCite, EndNote)
 RefWorks Direct Export
 CSV - Fields by Row
 CSV - Fields by Column
 Plain Text

- 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)

10000
 Select number of items
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 500
 5000
 10000

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10,000건 까지 선택 내보내기 가능
 10,000건 이상인 경우 10,000건씩
 선택 후 순차적으로 내보내기 진행

1 Efficacy and short-term trial
 Jabbari M., Hashempur M.H., Ra
Journal of Ethnopharmacology 20
 Embase Abstract In

2 Short-term placebo resp
 Reiter-Niesert S., Boers M., Det
Osteoarthritis and Cartilage 2016
 Embase Abstract In

3 New developments in os
 Poulet B., Staines K.A.
Current Opinion in Pharmacology
 Embase Abstract In

4 A prospective, randomiz
 erythrocyte membrane polyunsaturated fatty acid concentrations in dogs with osteoarthritis
 Mehler S.J., May L.R., King C., Harris W.S., Shah Z.
Prostaglandins Leukotrienes and Essential Fatty Acids 2016 109 (1-7)
 Embase Abstract Index Terms View Full Text

도서관 로그인 후 이용

원문 (full-text)보기

- 도서관에서 구독하고 있는 원문 저널 원문 바로 보기 연동
- 구독하지 않는 원문 저널은 출판사 홈페이지로 연동

1 Diabetes, plasma glucose and incidence of pancrea
and a meta-analysis of 22 cohort studies

Pang Y., Kartsonaki C., Guo Y., Bragg F., Yang L., Bian Z., Chen Y., lo
International Journal of Cancer 2017 140:8 (1781-1788)

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- EndNote로 반출하기
- Refworks로 반출하기
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Export Data

Export format: RIS format (Mendeley, EndNote) ▼

Output: RIS format (Mendeley, EndNote)

RefWorks Direct Export

CSV - Fields by Row

R CSV - Fields by Column


Plain Text




검색식 저장/ 편집하기 최신정보와 자동 결과 관리

Export, 인쇄 또는 공유 결과
- RIS, 텍스트 또는 CSV를
포함하는 형식으로 반출

Register Login  (1)

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

<input checked="" type="checkbox"/> #2	'osteoarthritis'/exp OR 'arthritis, degenerative':ab,ti OR 'arthritis, noninflammatory':ab,ti OR 'arthrosis':ab,ti OR 'degenerative arthritis':ab,ti OR 'degenerative joint disease':ab,ti OR 'osteo-arthritis':ab,ti OR 'osteoarthrosis':ab,ti OR 'osteoarthritis':ab,ti OR 'osteoarthrosis':ab,ti OR 'primary osteoarthritis':ab,ti OR 'rheumatoid arthritis':ab,ti AND ('drug therapy'/exp OR 'drug therapy':ab,ti OR 'drug treatment' OR 'medicament therapy' OR 'medicament treatment' OR 'medication' OR 'medicinal therapy' OR 'medicinal treatment' OR 'orthomolecular therapy' OR 'orthomolecular treatment' OR 'pharmaceutical therapy' OR 'pharmaceutical treatment' OR 'pharmaco-therapy' OR 'pharmaco-treatment' OR 'pharmacological therapy' OR 'pharmacological treatment' OR 'pharmacotherapy' OR 'pharmacotreatment' OR 'therapeutic uses' OR 'therapy, drug' OR 'therapy, pharmacological' OR 'treatment, drug' OR 'treatment, pharmacological') AND ('clinical effectiveness'/exp OR 'treatment duration'/exp OR 'duration of therapy' OR 'duration of treatment' OR 'length of therapy' OR 'length of treatment' OR 'therapy duration' OR 'treatment duration' OR 'treatment response'/exp OR 'therapeutic response' OR 'therapy response' OR 'treatment response')	1,864
<input checked="" type="checkbox"/> #1	'osteoarthritis'/exp OR 'arthritis, degenerative':ab,ti OR 'arthritis, noninflammatory':ab,ti OR 'arthrosis':ab,ti OR 'degenerative arthritis':ab,ti OR 'degenerative joint disease':ab,ti OR 'osteo-arthritis':ab,ti OR 'osteoarthrosis':ab,ti OR 'osteoarthritis':ab,ti OR 'osteoarthrosis':ab,ti OR 'primary osteoarthritis':ab,ti OR 'rheumatoid arthritis':ab,ti AND ('exercise'/exp OR 'biometric exercise':ab,ti OR 'effort':ab,ti OR 'exercise':ab,ti OR 'exercise capacity':ab,ti OR 'exercise performance':ab,ti OR 'exercise training':ab,ti OR 'exertion':ab,ti OR 'fitness training':ab,ti OR 'physical conditioning, human':ab,ti OR 'physical effort':ab,ti OR 'physical exercise':ab,ti OR 'physical exertion':ab,ti OR 'restraint, physical':ab,ti) AND ('clinical effectiveness'/exp OR 'treatment duration'/exp OR 'duration of therapy' OR 'duration of treatment' OR 'length of therapy' OR 'length of treatment' OR 'therapy duration' OR 'treatment duration' OR 'treatment response'/exp OR 'therapeutic response' OR 'therapy response' OR 'treatment response')	344 

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자동으로 새로운 검색결과를
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
Export as:

- HTML file Formatted, includes all sub-searches
- Text file (export.txt) Plain text format, flattened query
- CSV file (export.csv) Comma separated, flattened query

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검색식 저장 관리 (saved search)


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

Helen Kim

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<input type="checkbox"/>	Your Query	Name	Last Update	Creation Date	Results
<input checked="" type="checkbox"/>	#4 #3 AND ('adverse drug reaction'/Ink OR 'drug toxicity'/Ink OR 'side effect'/Ink) AND ([adolescent]/IIm OR [school]/IIm)	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'/Ink OR 'drug toxicity'/Ink OR 'side effect'/Ink)	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

Part 6. 검색 초보자/ 전문가를 위한 5분 완성 검색 EMBASE만의 EBM/SRs 문헌검색 기능

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>Neoplasm Staging Breast Neoplasms</p>
<p>I- Intervention Prognostic factor, Exposure Describe the main intervention (e.g.-drug or other treatment, diagnostic/screening test)</p>	<p>Mastectomy, Modified Radical</p>
<p>C-Comparison (if appropriate) Describe the main alternative being considered (e.g. – placebo, standard therapy, no treatment, the gold standard)</p>	<p>Mastectomy, Segmental</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>Survival Analysis Survival Rate Disease-Free Survival Mortality</p>
<p>The well-built clinical question: 조기 유방암에서 변형 근치적 절제술과 보존술은 장기 생존률에 차이가 있는가?</p>	

편리한 PICO 검색어 입력 및 검색 수식 조합

PICO Search

Note: Filling any search line is optional

Default search strategy



Population

breast cancer /exp + 9 synonyms:all or breast tumor /exp + 20 synonyms:all or breast /exp + 8 synonyms:all and neoplasm /exp

Clear field

Intervention

modified radical mastectomy /exp + 3 synonyms:all

Clear field

Comparison

partial mastectomy /exp

Outcome

mortality /exp + 3 synonyms:all

Study design (or miscellaneous)

randomized controlled trial

'breast cancer'/exp OR 'advanced breast cancer' OR 'breast cancer' OR 'breast cancer recurrence' OR 'breast gland cancer' OR 'breast gland neoplasm' OR 'cancer, breast' OR 'mamma cancer' OR 'mammary cancer' OR 'mammary gland cancer' OR 'breast tumor'/exp OR 'breast gland tumor' OR 'breast gland tumour' OR 'breast mass' OR 'breast neoplasms' OR 'breast neoplasms, male' OR 'breast tumor' OR 'breast tumour' OR 'female breast neoplasm' OR 'female breast tumor' OR 'female breast tumour' OR 'mamma tumor' OR 'mamma tumour' OR 'mammary gland tumor' OR 'mammary gland tumour' OR 'mammary neoplasms' OR 'mammary tumor' OR 'mammary tumor cell' OR 'mammary tumour' OR 'mammary tumour cell' OR 'unilateral breast neoplasms' OR 'breast'/exp OR 'breast' OR 'breast body' OR 'breast tissue' OR 'corpus mammae' OR 'female breast' OR 'mamma' OR 'mammary dys harmony' OR 'mammary tissue' AND 'neoplasm'/exp AND ('modified radical mastectomy'/exp OR 'mastectomy, modified radical' OR 'modified mastectomy' OR 'modified radical mastectomy') AND ('partial mastectomy'/exp OR 'breast conserving surgery' OR 'breast segmental resection' OR 'breast sparing surgery' OR 'mastectomy, partial' OR 'mastectomy, segmental' OR 'partial breast resection' OR 'partial mastectomy' OR 'quadrantectomy' OR 'segmental breast resection' OR 'segmental mastectomy') AND ('mortality'/exp OR 'excess mortality' OR 'mortality' OR 'mortality model' OR 'survival rate'/exp OR 'rate, survival' OR 'survival curve' OR 'survival probability' OR 'survival rate') AND ('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')

오늘 교육에서 기억할 3가지

1. EMBASE를 꼭 검색해야 할까요? **YES**
2. 검색 범위지정하기: **넓게 - 관련성 낮게 OR 좁게- 관련성 높게**
3. 검색 연산자 : **AND (NEAR, NEXT), OR, 두 단어 이상 '따옴표'**



Thank you!

Any questions? Contact:

Name: 김세진 과장

email: s.kim.2@elsevier.com

Tel: 02-6714-3134