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# Embase

**Turbo charging your researches**

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ELSEVIER Life Science

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# Embase 소개

# Embase 이용 안내

- 제품 페이지 : Embase <https://www.Embase.com> (기관 IP내 접속)
- 접속 방법 : <https://cha.futurenuri.co.kr/> 도서관 홈페이지에서 **Embase**를 클릭하여 접속합니다.

최신 연구문헌 알람 설정, 히스토리 저장, 결과 공유, 검색결과 1회당 10,000건 다운로드 이용을 위해서는 반드시 로그인 하셔야 합니다.



유저 아이디/패스워드 등록이 필수!

ScienceDirect, Scopus 등  
등록하신 아이디/패스워드  
이미 있으신 분들은 그대로 사용,  
없으시면 유저 등록 해주세요)

The screenshot shows the CHA FutureNuri Library website. At the top, there are navigation links: "분당차병원 의학도서관" (Bundang Cheebyeon Medical Library), "소장자료검색" (Collection Search), "DB 바로가기" (DB Direct), "도서관서비스" (Library Services), "MY LIBRARY", and "도서관 안내" (Library Guide). Below this is a "추천도서 +" (Recommended Books) section with a carousel of book covers. The books shown include "Instructional Course Lectures 74", "The Washington Manual of Surgical Pathology", "Biopsy Interpretation of the Breast", "Diagnostic Pathology and Molecular Genetics of the Thyroid", "Pharmacogenomics: A Primer for Clinicians", and "Balance Function Assessment and Management". At the bottom, there is a row of database logos: CHA FutureNuri Library, CHA University, JAMA Network, New England Journal of Medicine, ClinicalKey, Cochrane Library, UpToDate, Oxford University Press, Embase (highlighted with an orange box), Nursing Skills, MEDLINE Ultimate, nature, ScienceDirect, Scopus, Springer, and WILEY.

# Embase 소개

- Embase는 51년 된 국제 학술저널과 컨퍼런스 출판 자료를 기반으로 하는 세계 최대 규모의 근거 중심 의학생명 데이터베이스
- 바이오, 질병 및 약물 관련 문헌 정보
- 임상진행상황 모니터링, 부작용, 독성 등 약물 안정성, 치료법 등에 대한 정보 제공



**48M+**

records

MEDLINE 타이틀을 포함

총 4,800건의 문헌



**5.5M+**

conference abstracts

550만건 이상의 컨퍼런스 초록



**8,500+**

journals

Embase Only포함

총 8,500개의 저널



**178K**

preprints



**50만+**

clinical trials

ClinicalTrials.gov

전세계 임상시험 데이터

(의료기기 포함)

의료  
기기

- 약물 감시 및 상품 출시 후 모니터링
- 약물 및 의료기기 안정성 연구
- 증거기반의학(EBM)과 체계적문헌고찰(SRs)을 위한 신뢰도 높은 자료 검색 제공
- 각종 규제 준수

- 임상 평가 보고서(CERs)
- 시판 후 감시, 특히 기기 안전성 모니터링
- 포괄적인 문헌 검토 및 메타분석
- 경쟁사 정보 및 시장 접근 전략

# Why Embase ?

## 1 세계 각종 규제 기관에서의 권장



- EMA - 약물감시
- European Commission - 의료장비 임상 평가 보고
- NICE, Cochrane – 증거기반의학
- **The Cochrane Handbook에서 High-Quality Systematic Review를 위해 Medline과 Embase 모두 검색 할 것을 권장함**

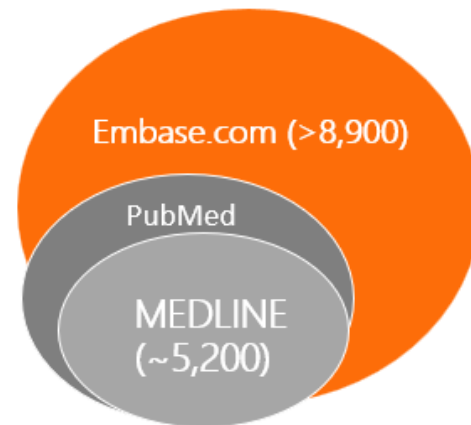
# Why Embase ?



## 2 신뢰도 있는 광범위한 콘텐츠 범위

	Embase	MEDLINE
콘텐츠 범위	약물 및 의료 기기 관련 콘텐츠 광범위한 생물의학 콘텐츠	생물의학 및 의료 콘텐츠
콘텐츠 종류	저널 컨퍼런스 초록	저널
수록 저널 수	<b>총 8,900 종 저널</b> - 3,200개 이상의 Embase 고유 저널 - Medline 저널 (25개 제외)	5,200개 이상의 저널
저널 발행 국가	유럽 51% 북미 31% 아시아 11%	유럽 50% 북미 39%
컨퍼런스 수	<b>약 16,000 여종 컨퍼런스 (2009년-현재)</b>	X
수록 문헌 수	<b>총 4천 9백만 건 이상 수록</b> - 5백50만건의 컨퍼런스 초록 포함	약 2천 9백만 건 수록

### Peered reviewed Journals



[ 학술지 수록 종수 비교]

# Why Embase ?

## 3 Emtree - Thesaurus & Index term

	Emtree (Embase)	Mesh (Medline)
동의어 (Entry terms)	510,000	270,000
우선어	98,000	29,917
업데이트 주기	연 3회	연 1회

코로나 관련, 한방 용어 및 GMDN도 수록

-Global Medical Device Nomenclature, 전 세계 의료기기 명명체계

이 시스템은 의료기기를 표준화된 용어와 코드로 분류하여, 의료기기 관련 데이터의 일관성과 교환성을 높이기 위해 개발된 국제 표준입니다.

즉, GMDN은 의료기기 산업에서 제품 식별과 데이터 관리, 보고, 의료기기 관련 규제 준수 등에 활용됩니다.

이 체계는 의료기기 제조사, 규제 기관, 병원 등 다양한 이해관계자가 공통된 언어로 정보를 교환하는 데 도움을 줍니다.

## Browse Emtree

Search term in Emtree

### Emtree

- anatomical concepts
- biological functions
- biomedical disciplines, science and art
- chemical, physical and mathematical phenomena
- chemicals and drugs
- diseases
- geographic names
- groups by age and sex
- health care concepts
- named groups of persons
- organisms
- procedures, parameters and devices
- society and environment
- types of article or study

## Emtree 은 Life Science 분야의 통제 어휘 시소러스



### Natural Language

- 정밀하고 쉽게 검색 가능
- **90,000 개 이상의 우선어** (+34,000 개 약물 우선어) 와 **443,000 개 이상의 동의어** (223,000 약물 동의어 포함)
- Medline (ca. 27,000 개 우선어/8,800 약물 우선어)\_**MEDLINE** 의 모든 **MeSH 용어 포함**, 23,000 개 이상의 CAS registry number



### A polyhierarchical thesaurus 다중 계층 구조의 주제어집

- A term can appear in multiple levels → easier to find relevant concepts
- 명료하고 확장하여 검색(/exp)

Mapping Strategies:



### Coverage

- 5,000 이상의 일반 및 의료장비 용어와 (e.g. endoscopes, catheters, prostheses)
- medical procedures와 연관된 수천 가지 용어 (e.g. endoscopy, catheterization)



### Up-to-date

- **신약 용어는 Emtree에 가장 먼저 업데이트 됩니다**
- 최신 약물, 질병, organisms and procedures 는 Medline과 비교해 연간 3배 이상 추가 색인됩니다.  
(with back-posting of older records)
- 모든 약물 (31,000 개 이상의 generic drugs, 화학명, 상품명 포함) 및 화학 물질 정보는 Emtree에 포함 (FDA, EMEA and WHO)

# Emtree-2

## Embase: Coverage Areas & Emtree

Medical Specialties	Pharmacy (emphasis on pharmacotherapy and pharmacovigilance)	Biotechnology and biomedical engineering (including medical devices)
Basic Biological Sciences	Health policy and management (including pharmacoeconomics)	Public, occupational and environmental health (including pollution control)
Veterinary Sciences	Dentistry	Nursing
Forensic Science	Traditional Complementary and Integrative Medicine	Other biomedical disciplines



### ○ Emtree

- anatomical concepts
- biological functions
- biomedical disciplines, science and art
- chemical, physical and mathematical phenomena
- chemicals and drugs
- diseases
- geographic names
- groups by age and sex
- health care concepts
- named groups of persons
- organisms
- procedures, parameters and devices
- society and environment
- types of article or study

14 branches

# Emtree (Embase) vs MeSH (Medline)

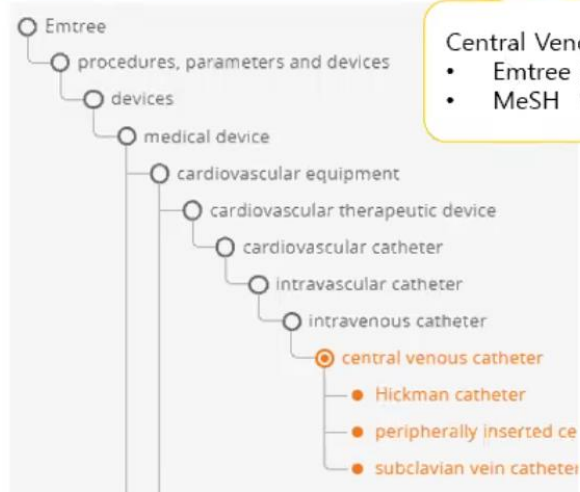
EMTREE 정확하고, 빠른 업데이트

## MeSH 검색결과

[All MeSH Categories](#)  
[Analytical, Diagnostic and Therapeutic Techniques and Equipment Category](#)  
[Equipment and Supplies](#)  
[Catheters](#)  
[Vascular Access Devices](#)  
**Central Venous Catheters**

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

[All MeSH Categories](#)  
[Diseases Category](#)  
[Pathological Conditions, Signs and Symptoms](#)  
[Signs and Symptoms](#)  
[Signs and Symptoms, Digestive](#)  
**Diarrhea**  
[Diarrhea, Infantile](#)



### Central Venous Catheters

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

## diarrhea Emtree 검색결과

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



### 3 검색어 선정 - 검색어 종류

## 통제어

Indexing term (예: Mesh)

정확도를 높이고, 부적절한 문헌을 배제

예)

Pubmed – MeSH

Embase – Emtree

OVID medline – MeSH

Cochrane Library – MeSH

CINAHL – CINAHL Subject headings

## 자연어

새로 등장하는 키워드, 저자 키워드,  
Indexing term 오류의 대체,  
색인 전 단계 논문



FULL  
TEXT  
INDEXING

## A randomised, placebo- and active-controlled dose-finding study of acclidinium bromide administered twice a day in COPD patients

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### ARTICLE INFO

#### Article history:

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#### Keywords:

Acclidinium  
Bronchodilation  
COPD  
Phase II  
Twice-daily

### ABSTRACT

This Phase IIb, double-blind, double-dummy, placebo- and active-comparator-controlled crossover study (ClinicalTrials.gov identifier: NCT01120093) assessed efficacy and safety of three doses of acclidinium bromide in patients with moderate to severe chronic obstructive pulmonary disease. Patients were randomised to one of five treatment sequences each consisting of twice-daily (BID) acclidinium 100 µg, 200 µg, 400 µg (via Genuair<sup>®</sup>), formoterol 12 µg (via Aerolizer<sup>®</sup>) and matched placebo for 7 days, with a 5- to 9-day washout period. Primary endpoint was mean change from baseline in forced expiratory volume in 1 s (FEV<sub>1</sub>) normalised area under the curve (AUC)<sub>0-12</sub> on Day 7. Secondary endpoints were: change from baseline in FEV<sub>1</sub> normalised AUC<sub>12-24</sub>, FEV<sub>1</sub> normalised AUC<sub>0-24</sub> and morning pre-dose FEV<sub>1</sub> on Day 7. Adverse events were monitored throughout the study. Of 79 randomised patients, 68 (86.1%) completed the study. After 7 days of treatment, acclidinium and formoterol produced statistically significantly greater changes from baseline in FEV<sub>1</sub> normalised AUC<sub>0-12</sub> vs placebo ( $p < 0.0001$ ). FEV<sub>1</sub> normalised AUC<sub>12-24</sub>, FEV<sub>1</sub> normalised AUC<sub>0-24</sub>, and morning pre-dose FEV<sub>1</sub> were also statistically significantly greater with all acclidinium doses vs placebo ( $p < 0.0001$ ). Improvements in primary and

The article full-text is read to extract significant concepts

Embase Full Text indexing and Entree Taxonomy – ensures that you don't miss relevant articles and triple linking helps to retrieve meaning full articles only

The article full-text is read to extract significant concepts

**Table 4**

Treatment-emergent adverse events reported by  $\geq 2$  patients in any treatment group (safety population).

	Number (%) of patients reporting adverse events				
	Placebo	Acclidinium			Formoterol
	N = 76	100 µg N = 73	200 µg N = 73	400 µg N = 74	12 µg N = 74
Any TEAE	16 (21.1)	11 (15.1)	13 (17.8)	14 (18.9)	11 (14.9)
Any severe TEAE	1 (1.3)	0 (0)	2 (2.7)	2 (2.7)	1 (1.4)
Headache	5 (6.6)	4 (5.5)	4 (5.5)	5 (6.8)	2 (2.7)
Nasopharyngitis	1 (1.3)	0 (0)	0 (0)	3 (4.1)	1 (1.4)
Toothache	0 (0)	1 (1.4)	0 (0)	2 (2.7)	0 (0)
Cough	2 (2.6)	1 (1.4)	1 (1.4)	1 (1.4)	1 (1.4)
Pruritus	2 (2.6)	1 (1.4)	1 (1.4)	0 (0)	2 (2.7)
Diarrhoea	2 (2.6)	1 (1.4)	1 (1.4)	0 (0)	0 (0)

SAE, serious adverse event; TEAE, treatment-emergent adverse event.

The purpose of this Phase IIb study was to assess the bronchodilatory effects of three doses of acclidinium (100 µg, 200 µg and 400 µg) BID in patients with moderate to severe COPD compared with placebo to guide dose selection for additional Phase III studies. The long-acting  $\beta_2$ -agonist (LABA) formoterol (12 µg BID) was used as an active comparator, so that the profile of acclidinium BID could be compared to a BID bronchodilator that is currently used in clinical practice.

## 2. Methods

### 2.1. Study subjects

Patients aged  $\geq 40$  years with a clinical diagnosis of stable moderate to severe COPD according to the current guidelines [8] were enrolled in the study. At screening, patients were required to have a post-salbutamol forced expiratory volume in 1 s (FEV<sub>1</sub>)/forced vital capacity (FVC) ratio  $< 70\%$ , a post-salbutamol FEV<sub>1</sub>  $\geq 30\%$  and  $< 80\%$  of the predicted normal value, and be current or former cigarette smokers of  $\geq 10$  pack-years. Patients with a history or current diagnosis of asthma, with any respiratory tract infection or who had experienced a COPD exacerbation in the 6 weeks prior to screening (3 months if it resulted in hospitalisation) were excluded. Other exclusion criteria were: other clinically significant respiratory or cardiovascular conditions, and contraindications for anti-cholinergic drugs.

### 2.2. Study design

This was a double-blind, double-dummy, placebo- and active-comparator-controlled crossover study in patients with COPD (ClinicalTrials.gov identifier: NCT01120093) conducted in 11 centres in Germany and Belgium. Following a screening visit, eligible patients underwent a 14-day run-in period prior to randomisation. Patients were randomised to one of five 7-day treatment sequences (separated by 5- to 9-day washout periods) using a 5 × 5 Latin square crossover design [9]. Treatments were acclidinium 100 µg, 200 µg, 400 µg BID (via Genair™, Almirall, Barcelona, Spain) and formoterol 12 µg (via Foradil AEROLIZER™, Novartis AG; Basel, Switzerland) and matched placebo. The Genair™ inhaler is a novel multidose, breath-actuated dry powder inhaler (DPI) that generates a highly reproducible mean fine particle dose and delivers acclidinium effectively to lungs over a range of inhalation flows [10,11]. Genair™ incorporates multiple feedback mechanisms to ensure that doses are administered correctly, including a colour window changing from green to red and an audible click [10]. The AEROLIZER™ inhaler is a single-dose, breath-actuated DPI, which also performs consistently in terms of dosing efficiency [12]. But the feedback to the patient on whether the dose has been administered successfully is based on the single-dose, capsule-based nature of this inhaler [12].

Patients received the morning and evening dose 12 h apart for 7 consecutive days and were assessed on Days 1 and 7 of each treatment period. Salbutamol (400 µg per puff), as-needed, was allowed during the run-in and after randomisation. Inhaled glucocorticosteroids, oral and parenteral glucocorticosteroids (up to 10 mg/day), and oral sustained-release theophyllines were permitted if their use was stable  $\geq 4$  weeks prior to screening. Tiotropium was stopped at least 72 h prior to screening and LABAs

glucocorticosteroids or resulted in hospitalisation.

This study was conducted according to International Conference on Harmonization/Good Clinical Practice guidelines and the Declaration of Helsinki. The protocol was approved by local institutional review boards and ethics committees (Ethikkommission Schleswig-Holstein, Segeberg, Germany; Commissie voor Medische Ethiek, Universitair Ziekenhuis Gent, Belgium). All patients provided written informed consent prior to the study.

### 2.3. Assessments

#### 2.3.1. Efficacy

At screening, spirometry measurements were taken at two intervals (1 h apart) prior to the morning dose, and then at 0.5, 1, 2, 3, 4 and 6 h post-morning dose on Day 1. On Day 7, measurements were taken at the same times as Day 1 and also at 8, 10, 12 (pre-evening dose), 13, 14, 15, 16, 22, 23 and 24 h post-morning dose. Spirometers and all necessary equipment were provided by a centralised company (CareFusion) for specific use in this study. Spirometers were calibrated every day of use and after maintenance; instrument recommendations were followed to ensure accurate and comparable spirometric data. Spirometry assessments were performed in triplicate, and all three measurements were required to meet acceptability and repeatability criteria according to current recommendations [13]. If either of these criteria were not met, additional measurements (up to a maximum of eight) were taken until the criteria were met. Baseline was defined as the mean of the two pre-dose spirometry measurements on Day 1 of each treatment period. The use of relief medication was recorded in patient diary cards. Convenience of use of both inhaler devices was assessed at the end of the study using a seven-item questionnaire.

#### 2.3.2. Safety

Adverse events (AEs) were monitored throughout the study and were graded as mild, moderate or severe. AEs were considered treatment-emergent (TEAEs) if they started on or after the first dose of study drug, or if the severity of a medical condition worsened after study drug. Other safety investigations included 12-lead electrocardiogram (ECG, performed both pre-dose and 2-h post-dose), blood-pressure measurements, and assessments of clinical laboratory parameters and vital signs.

#### 2.4. Endpoints

The primary efficacy variable was mean change from baseline in FEV<sub>1</sub> normalised area under the curve (AUC) for the 12-h period immediately after morning dose (AUC<sub>0-12</sub>) on Day 7. Secondary efficacy endpoints included: change from baseline in FEV<sub>1</sub> normalised AUC<sub>12-24</sub>, FEV<sub>1</sub> normalised AUC<sub>0-24</sub>, and morning pre-dose (trough) FEV<sub>1</sub> at Day 7. Additional efficacy endpoints included: change from baseline in FVC normalised AUC<sub>0-12</sub>, AUC<sub>12-24</sub> and AUC<sub>0-24</sub> at Day 7; change from baseline in morning peak FEV<sub>1</sub> on Day 1 and Day 7; morning trough FVC on Day 7; and change from baseline in the use of relief medication after 7 days of treatment (baseline was assessed as relief medication used during the run-in period).

Safety and tolerability endpoints included AEs and change from baseline in blood pressure, ECG, laboratory parameters and vital signs.

# High quality taxonomy makes information discoverable.

## Let's consider following urinary tract antiinfective agent

### Article 1

Resistant organisms 881

**Table 10** Susceptibility of streptomycin (mg) / ampicillin (mg) to *S. pneumoniae*

Isolate	Strain	Strain	IC <sub>50</sub> (mg)	IC <sub>90</sub> (mg)	IC <sub>95</sub> (mg)	P <sub>10</sub>
1	100-1000	100-1000	0.02	0.02	0.02	0.02
2	100-1000	100-1000	0.02	0.02	0.02	0.02
3	100-1000	100-1000	0.02	0.02	0.02	0.02
4	100-1000	100-1000	0.02	0.02	0.02	0.02
5	100-1000	100-1000	0.02	0.02	0.02	0.02
6	100-1000	100-1000	0.02	0.02	0.02	0.02
7	100-1000	100-1000	0.02	0.02	0.02	0.02
8	100-1000	100-1000	0.02	0.02	0.02	0.02
9	100-1000	100-1000	0.02	0.02	0.02	0.02
10	100-1000	100-1000	0.02	0.02	0.02	0.02

**ivadantin**

10 results

### Article 2

**furadantin**

4 280 results

### Article 3

**furadantine**

364 results

## What to keep in mind

- Synonyms
- British and American English
- spellings
- Acronyms

'ivadantin'  
10 results

'furadantin'  
4 280 results

'furadantine'  
364 results

Results of the Search in Google-like tools would vary depending on used synonyms.

# 항목별 검색 : Drug, Disease

## Quick search

[Quick](#)[PICO](#)[PV Wizard](#)[Medical device](#)[Advanced](#)[Drug](#)[Disease](#)[Device](#)[Citation information](#)[Query translator](#)Beta

Find articles by simple keyword search or build more complex queries

[Search tips ↗](#)

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



+ Add field    ∨ Limit to

↻ Reset form

# 약물검색 : Quick Search < Drug



Quick PICO PV Wizard Medical device Advanced **Drug** Disease Device Citation information Query translator *Beta*

'clopidogre' **1** 약물명 입력 **2** 다양한 검색 제한 기능 활용

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 development	<input type="checkbox"/> Pharmacoeconomics
<input type="checkbox"/> Clinical trial	<input type="checkbox"/> Drug dose	<input type="checkbox"/> Pharmacokinetics
<input type="checkbox"/> Drug administration	<input type="checkbox"/> Drug interaction	<input type="checkbox"/> Pharmacology
<input type="checkbox"/> Drug analysis	<input type="checkbox"/> Drug therapy	<input type="checkbox"/> Special situation for pharmacovigilance
<input type="checkbox"/> Drug combination	<input type="checkbox"/> Drug toxicity	<input type="checkbox"/> Unexpected outcome of drug treatment
<input type="checkbox"/> Drug comparison	<input type="checkbox"/> Endogenous compound	
<input type="checkbox"/> Drug concentration	<input type="checkbox"/> Pharmaceutics	

OR  AND

# 약물검색 : Quick Search < Drug

Quick PICO PV Wizard Medical device Advanced **Drug** Disease Device Citation information Query translator *Beta*

'clopidogrel'

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

3

의약품 검색에 특화된  
부제목, 투여경로,  
검색필드를 활용하여 검색

Subheadings Clear page selections Collapse

<input type="checkbox"/> Adverse drug reaction	<input type="checkbox"/> Drug development	<input type="checkbox"/> Pharmacoeconomics
<input type="checkbox"/> Clinical trial	<input type="checkbox"/> Drug dose	<input type="checkbox"/> Pharmacokinetics
<input type="checkbox"/> Drug administration	<input type="checkbox"/> Drug interaction	<input type="checkbox"/> Pharmacology
<input type="checkbox"/> Drug analysis	<input type="checkbox"/> Drug therapy	<input type="checkbox"/> Special situation for pharmacovigilance
<input type="checkbox"/> Drug combination	<input type="checkbox"/> Drug toxicity	<input type="checkbox"/> Unexpected outcome of drug treatment
<input type="checkbox"/> Drug comparison	<input type="checkbox"/> Endogenous compound	
<input type="checkbox"/> Drug concentration	<input type="checkbox"/> Pharmaceutics	

OR  AND

# 질병검색 : Quick Search < Disease

Quick PICO PV Wizard Medical device Advanced Drug Disease Device Citation information Query translator Beta

'leukemia' **1** 질병명 입력 **2** 다양한 검색 제한 기능

Search > Mapping ^ Date v Sources v Fields v 활용 Disease subheadings v Quick limits v EBM v Pub. types v Languages v Search tips v

Embase mapping options Clear page selections Collapse

- Map to preferred term in Emtree
- 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'

# 질병검색 : Quick Search < Disease

Quick PICO PV Wizard Medical device Advanced Drug **Disease** Device Citation information Query translator *Beta*

'leukemia'

3

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

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

# 특정 임상문제에 대한 중요 논문 검색

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

**Disease**

'cerebrovascular accident'

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

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**

'warfarin'

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

Subheadings

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

OR  AND

<input type="checkbox"/> History	Save   Delete   Print view   Export   Email	Combine > using <input checked="" type="radio"/> And <input type="radio"/> Or	^ Collapse
<input type="checkbox"/> #4	'cerebrovascular accident'/exp/dm_pc	24,602	
<input type="checkbox"/> #3	#1 AND #2	2,168	
<input type="checkbox"/> #2	'cerebrovascular accident'/exp/dm_pc	24,602	
<input type="checkbox"/> #1	'warfarin'/exp/dd_ae,dd_to	14,248	

# 항목별 검색 : Drug, Disease

## Quick search

[Quick](#)[PICO](#)[PV Wizard](#)[Medical device](#)[Advanced](#)[Drug](#)[Disease](#)[Device](#)[Citation information](#)[Query translator](#)Beta

Find articles by simple keyword search or build more complex queries

[Search tips ↗](#)

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



+ Add field    ∨ Limit to

↻ Reset form

# 약물검색 : Quick Search < Drug

Quick PICO PV Wizard Medical device Advanced **Drug** Disease Device Citation information Query translator Beta

'clopidogrel'

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 development	<input type="checkbox"/> Pharmacoeconomics
<input type="checkbox"/> Clinical trial	<input type="checkbox"/> Drug dose	<input type="checkbox"/> Pharmacokinetics
<input type="checkbox"/> Drug administration	<input type="checkbox"/> Drug interaction	<input type="checkbox"/> Pharmacology
<input type="checkbox"/> Drug analysis	<input type="checkbox"/> Drug therapy	<input type="checkbox"/> Special situation for pharmacovigilance
<input type="checkbox"/> Drug combination	<input type="checkbox"/> Drug toxicity	<input type="checkbox"/> Unexpected outcome of drug treatment
<input type="checkbox"/> Drug comparison	<input type="checkbox"/> Endogenous compound	
<input type="checkbox"/> Drug concentration	<input type="checkbox"/> Pharmaceutics	

OR  AND

3  
의약품 검색에 특화된 부제목, 투여경로, 검색필드를 활용하여 검색

# 질병검색 : Quick Search < Disease

Quick PICO PV Wizard Medical device Advanced Drug Disease Device Citation information Query translator Beta

'leukemia' **1** 질병명 입력 **2** 다양한 검색 제한 기능

Search > Mapping ^ Date v Sources v Fields v 활용 Disease subheadings v Quick limits v EBM v Pub. types v Languages v Search tips v

Embase mapping options Clear page selections Collapse

- Map to preferred term in Emtree
- 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'

# 질병검색 : Quick Search < Disease

Quick PICO PV Wizard Medical device Advanced Drug **Disease** Device Citation information Query translator *Beta*

'leukemia'

3

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

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

# 약물검색 : Quick Search < Drug



Quick PICO PV Wizard Medical device Advanced **Drug** Disease Device Citation information Query translator *Beta*

'clopidogre' **1** 약물명 입력 **2** 다양한 검색 제한 기능 활용

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 development	<input type="checkbox"/> Pharmacoeconomics
<input type="checkbox"/> Clinical trial	<input type="checkbox"/> Drug dose	<input type="checkbox"/> Pharmacokinetics
<input type="checkbox"/> Drug administration	<input type="checkbox"/> Drug interaction	<input type="checkbox"/> Pharmacology
<input type="checkbox"/> Drug analysis	<input type="checkbox"/> Drug therapy	<input type="checkbox"/> Special situation for pharmacovigilance
<input type="checkbox"/> Drug combination	<input type="checkbox"/> Drug toxicity	<input type="checkbox"/> Unexpected outcome of drug treatment
<input type="checkbox"/> Drug comparison	<input type="checkbox"/> Endogenous compound	
<input type="checkbox"/> Drug concentration	<input type="checkbox"/> Pharmaceutics	

OR  AND

# PICO 검색전략

특정 의학적인 문제에 대해 더 많은 사례(증거)를 기반으로 판단할 수 있도록 사례(증거)문헌을 수집하는 검색전략

**P** = Patient

AND

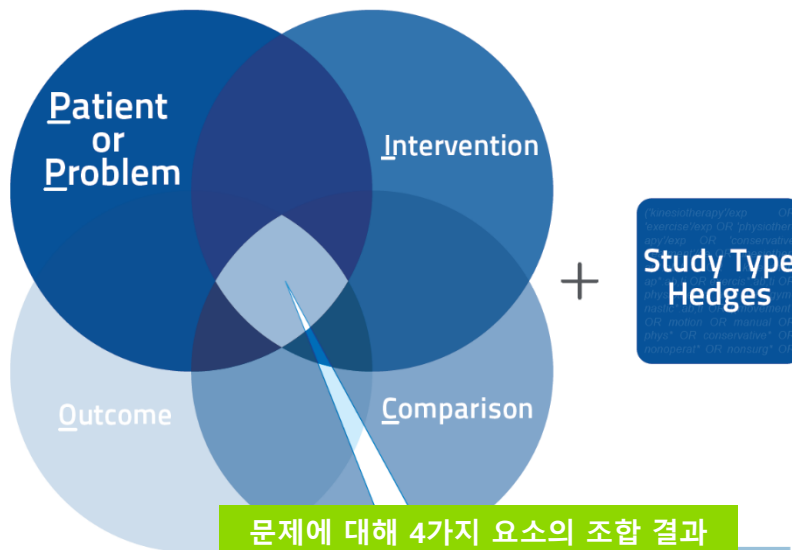
**I** = Intervention

AND

**C** = Comparison/control

AND

**O** = Outcome



The PICO Framework (Sackett et al, 1997)

무작위 대조 실험 (RCTs), 체계적인 리뷰 및 메타 분석 등 다양한 연구 유형에서 진단, 예방, 예후 및 치료 등과 같은 임상 개념을 검색하는 전략

# PICO란?

- 답변 가능한 질문으로 구조화하는데 도움이 되는 유용한 모델
- 임상 질문을 구성하는데 사용
- 질문을 4가지 핵심 요소로 분해함

## Table 2 - Description of the PICO strategy

Acronym	Definition	Description
P	Patient or problem	Can be only one patient, a group of patients with a particular condition or a health problem
I	Intervention	Represents the intervention of interest, which can be therapeutic (e.g. several kinds of dressings), preventive (e.g. vaccination), diagnostic (e.g. blood pressure measure), prognostic, administrative or related to economic issues
C	Control or comparison	Defined as a standard intervention, the most used intervention or no intervention
O	Outcome	Expected result

# Patient 환자, Population 인구, Problem 문제

- 환자 또는 환자 그룹 (성별, 인종, 나이 등)
- 질병 또는 상태
- 질병의 단계
- 치료 환경

# Intervention 중재

- 치료 유형(약물, 수술, 치료)
- 중재 레벨(용량dosage, frequency빈도)
- 중재 단계(preventative예방, early초기, advanced상위)
- 전달 방식 (중재를 제공하는 사람은 누구인가? 어디인가?)

## Comparison 비교

- 대안 중재 Alternative interventions (standard treatment 표준 치료, placebo 플라시보, 기타 다른 중재)
- 항상 비교가 있는 것은 아니다

# Outcome 결과

- 관심 있는 결과 또는 효과, 예시로
  - 증상 개선, 치유
  - 부작용
  - 생활 태도, 삶의 질 개선
  - 비용 효과성 및 서비스 제공자를 위한 혜택



# 연구주제 PICO Question 설계 예시

Question Type	Patient or Problem	Intervention	Comparison	Outcome
<b>Treatment (Therapy) 치료</b>	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)
<b>Prevention 예방</b>	환자위험요인 또는 전반적인 건강상태	예방법 (e.g., drug or lifestyle modification)	May not be applicable	예) 병 상태(morbidity), 사망(mortality), 통증(pain), 장애(disability)
<b>Diagnosis 진단</b>	대상 질환 또는 상태	진단검사나 절차	문제에 대한 현재의 기준/ 표준 시험	검사용용성의 측정 (e.g., sensitivity, specificity or odds ratio)
<b>Prognosis (natural history) 예후</b>	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
<b>Etiology or harm (causation) 위험요인</b>	환자 위험요인, 현재 질병상태, 전반적인 건강상태	위험 인자의 강도(도즈)의 indication과 노출 기간을 포함하여 인자 개입	May not be applicable	예) 질병 발병율, 질병의 진행속도, 혹은 사망율

# 선행연구탐색

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

## Quick search

Quick PICO PV Wizard Medical device Advanced Drug Disease Device Citation information Query translator

Find articles by simple keyword  
search or build more complex queries

[Search tips >](#)

All fields e.g. 'heart attack'  
'non insulin dependent diabetes mellitus'

AND  All fields e.g. 'heart attack'  
'drug therapy'

AND  All fields e.g. 'heart attack'  
'lifestyle modification'

AND  All fields e.g. 'heart attack'  
'glucose blood level'

[+](#) Add field [^](#) Limit to

[Reset form](#)

Publication years From 2014 To 2024

### Evidence Based Medicine

- |  |  |
|--|--|
| <input type="checkbox"/> Cochrane Review   | <input type="checkbox"/> Controlled Clinical Trial   |
| <input type="checkbox"/> Systematic Review | <input type="checkbox"/> Randomized Controlled Trial |
| <input type="checkbox"/> Meta Analysis     |  |

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

# 다른 구조화 방법도 있습니다

- PICO 질문을 구성하기 위한 유일한 구조 체계가 아닙니다
- 다른 구조화 방법들은 *Booth A, et al. BMJ Glob Health 2023; 4:e001107. doi: 10.1136/bmjgh-2018-001107* 에서 찾을 수 있습니다.

## PEO framework

<b>P</b>	<b>Population</b>
<b>E</b>	<b>Exposure</b>
<b>O</b>	<b>Outcome</b>

## SPIDER framework

<b>S</b>	<b>Sample</b>
<b>P &amp; I</b>	<b>Phenomenon of Interest</b>
<b>D</b>	<b>Design</b>
<b>E</b>	<b>Evaluation</b>
<b>R</b>	<b>Research type</b>

## SPICE framework

<b>S</b>	<b>Setting</b>
<b>P</b>	<b>Perspective</b>
<b>I</b>	<b>Intervention</b>
<b>C</b>	<b>Comparison</b>
<b>E</b>	<b>Evaluation</b>

## ECLIPSE framework

<b>E</b>	<b>Expectation</b>
<b>C</b>	<b>Client Group</b>
<b>L</b>	<b>Location</b>
<b>I</b>	<b>Impact</b>
<b>P</b>	<b>Professionals</b>
<b>Se</b>	<b>Service</b>



# Demo

## 검색 사례

✓ 의료기기에서 유해사건/부작용을 검색:

pacemaker 의 유해사건/부작용 중 감염증이 보고된 문헌 ①

✓ 안전성 조사: da Vinci 및 유사 기기사용 시 유해 사건/부작용 보고 유무를 확인①

✓ 제조사 검색: 회사명으로 검색

✓ 검사 관련 문헌 조사

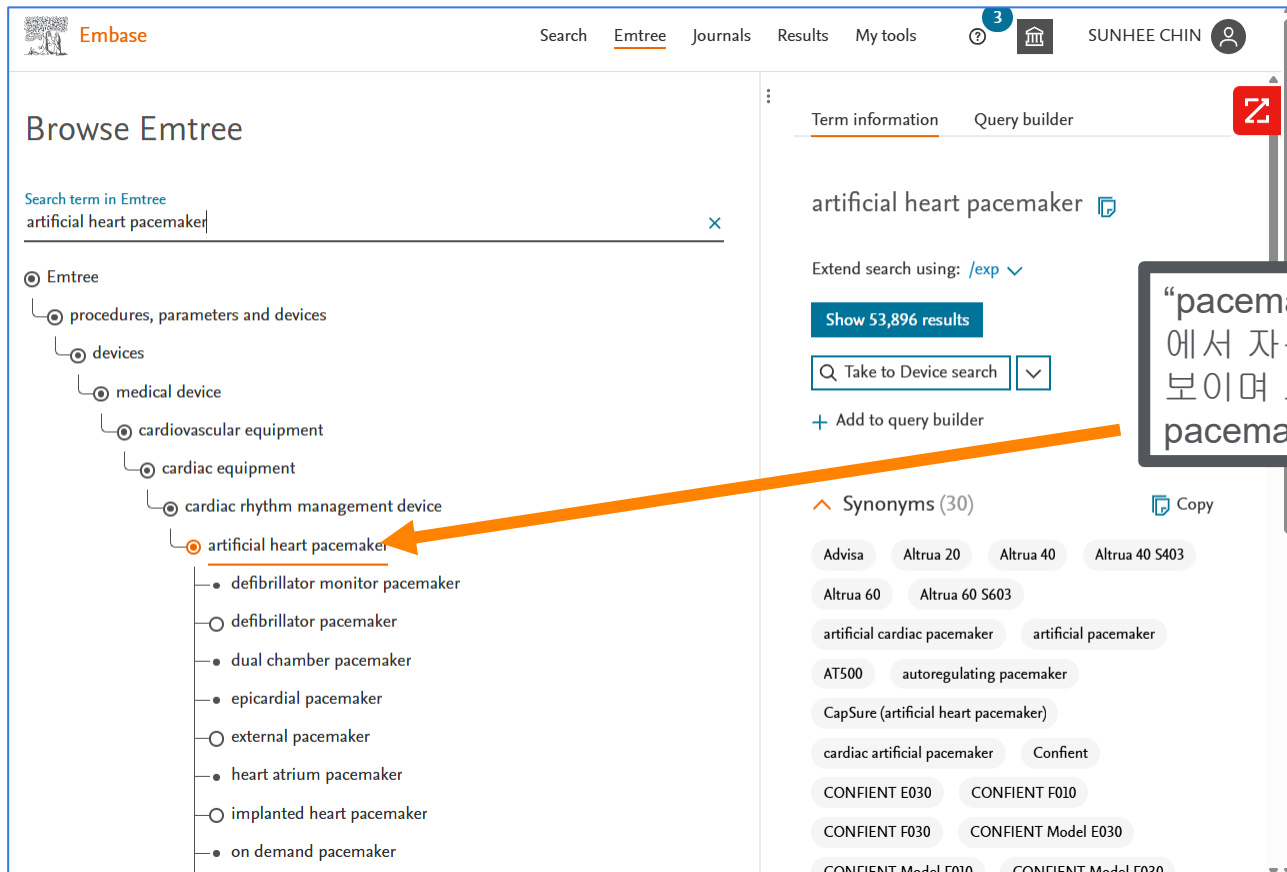
✓ 특정 질환 분야에서 바이오 마커 탐색

✓ 바이러스 검사약 검색



의료기기의 유해사건/부작용 검색:

pacemaker 의 부작용 중 감염증이 보고된 문헌①



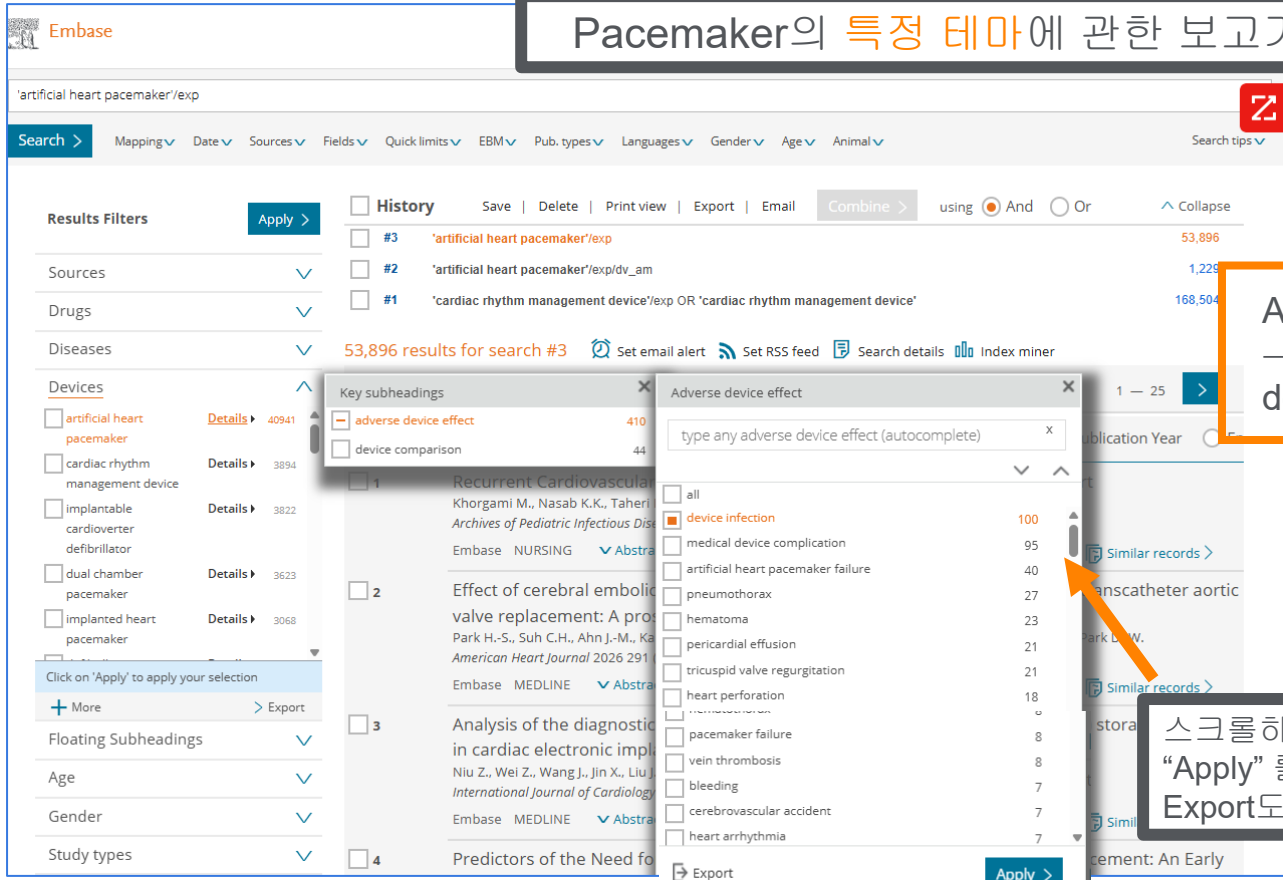
The screenshot shows the Emtree interface with the search term 'artificial heart pacemaker' entered. The left sidebar displays the Emtree hierarchy, with 'artificial heart pacemaker' selected and highlighted by an orange arrow. The main content area shows the search results, including a 'Term information' tab, the search term 'artificial heart pacemaker', and a list of synonyms (30) such as 'Advisa', 'Altrua 20', 'Altrua 40', 'Altrua 40 S403', 'Altrua 60', 'Altrua 60 S603', 'artificial cardiac pacemaker', 'artificial pacemaker', 'AT500', 'autoregulating pacemaker', 'CapSure (artificial heart pacemaker)', 'cardiac artificial pacemaker', 'Confient', 'CONFIENT E030', 'CONFIENT F010', 'CONFIENT F030', 'CONFIENT Model E030', 'CONFIENT Model F010', and 'CONFIENT Model F030'.

“pacemaker” 입력하면, Emtree 에서 자동으로 상하계층이 보이며 그 중 “artificial heart pacemaker” 을 선택

의료기기의 유해사건/부작용 검색:

pacemaker 의 부작용 중 감염증이 보고된 문헌②

## Pacemaker의 특정 테마에 관한 보고가 있는 문헌만 선택



The screenshot shows the Embase search interface for the query 'artificial heart pacemaker/exp'. The search results are filtered to show 53,896 results for search #3. The 'Results Filters' section on the left includes 'Sources', 'Drugs', 'Diseases', and 'Devices'. Under 'Devices', 'artificial heart pacemaker' is selected, showing 40941 results. A 'Key subheadings' window is open, listing 'adverse device effect' (410) and 'device comparison' (44). The 'Adverse device effect' window is also open, showing a list of subheadings with counts, including 'device infection' (100), 'medical device complication' (95), 'artificial heart pacemaker failure' (40), 'pneumothorax' (27), 'hematoma' (23), 'pericardial effusion' (21), 'tricuspid valve regurgitation' (21), 'heart perforation' (18), 'pacemaker failure' (8), 'vein thrombosis' (8), 'bleeding' (7), 'cerebrovascular accident' (7), and 'heart arrhythmia' (7). An orange arrow points to the 'device infection' subheading in the 'Adverse device effect' window.

Artificial heart pacemaker  
→ adverse device effect →  
device infection 로 필터링

스크롤하여 확인한 후  
“Apply” 를 클릭 또는  
Export도 가능

의료기기의 유해사건/부작용 검색:

pacemaker 의 부작용 중 감염증이 보고된 문헌③

검색결과 의 문헌 리스트에서 Index Terms 확인

Publication years

Authors

Conference Abstracts

Drug Trade Names

Drug Manufacturers

Device Trade Names

Device Manufacturers

2 **Leadless Pacemaker vs. Transvenous Pacemaker in End Stage Kidney Disease: Insights from the Nationwide Readmission Database**  
 Kansakar S., Naeem A., Moskovits N., Shrestha D.B., Shtembari J., Biswas M., Shantha G., Basyal B., Storey J., Katz D.  
*Journal of Clinical Medicine* 2025 14:1 Article Number 202  
 Embase  Abstract  Index Terms  View Full Text Similar records >

**Disease Terms**

acute kidney failure, blood vessel fistula, blood vessel injury, device infection, end stage renal disease, heart muscle injury, heart perforation, heart tamponade, hematoma, hemopericardium, pneumothorax, respiratory failure, thrombosis

**Device Terms**

artificial heart pacemaker, leadless pacemaker, transvenous pacemaker

artificial heart pacemaker (major focus)

Key Subheadings	
<b>adverse device effect</b>	device infection, thrombosis
<b>device comparison</b>	leadless pacemaker

4 **Harnessing cell reprogramming for cardiac biological pacing**  
 Liu C.-M., Chen Y.-C., Hu Y.-F.  
 Embase MEDLINE NUI... e70050 Similar records >

마우스를 대면

굵은 글씨는 논문에서 주요하게 다루고 있는 토픽

조건을 만족하는 논문으로만 좁혀짐

1

# PICO 검색

협심증 환자군에서 혈관가이드 와이어의 유해사건/부작용 보고를 조사



Embase Search Emtree Journals Results My tools SUNHEE CHIN

Quick PICO PV Wizard Medical device Advanced Drug Disease Device Citation information Query translator Embase AI

Default strategy: /exp

Population e.g. diabetes  
angina pectoris /exp 4 synonyms :all 협심증 환자

Intervention e.g. insulin  
vascular guide wire /exp 241 synonyms :all 혈관가이드와이어

Comparison e.g. placebo

Outcome e.g. risk  
adverse device effect /exp 14 synonyms :all 유해사건/부작용

Study design e.g. randomized controlled trial

Limit to Reset form

Show 254 results

Display full query

Search term in Emtree  
adverse device effect

- Emtree
  - diseases
    - physical disease
      - physical disease by etiology and pathogenesis
        - iatrogenic disease
          - adverse event
            - adverse device effect
              - medical device complication
              - medical device malfunction

device adverse effect

device adverse event

device-related adverse effect

device-related adverse event

검색결과 총 수가 표시



안전성 조사:

da Vinci 및 유사 기기사용 시 유해 사건/부작용 보고 유무를 확인①

Quick PICO PV Wizard **Medical device** Advanced Drug Disease Device Citation information Query translator Embase AI New

Build your search strategy specific to medical devices

[Search tips >](#)

Device name

+ Add device name

AND

Adverse effects

+ Add/Edit d

OR

+ Add device

AND

Limit options

Add device name

Device name  
robotic surgical system

- Entree
  - procedures, parameters and devices
    - devices
      - medical device
        - general medical device
          - medical robot
            - robotic surgical device
              - robotic surgical system**
                - robotic catheter system
                - robotic neurological surgical equipment
                - robotic orthopedic surgical system
            - surgical equipment
              - computer assisted surgery system

Add device name

「davinci」입력하면  
Entree 에서  
자동으로 맵핑



안전성 조사:

da Vinci 및 유사 기기사용 시 유해 사건/부작용 보고 유무를 확인①

Quick PICO PV Wizard **Medical device** Advanced Drug Disease Device Citation information Query translator Embase AI New

### Build your search strategy specific to medical devices

Device name

+ Add device name

AND

Adverse effects

+ Add/Edit d

OR

+ Add device

AND

Limit options

#### Add device name

Device name  
robotic surgical system

- Entree
  - procedures, parameters and devices
    - devices
      - medical device
        - general medical device
          - medical robot
            - robotic surgical device
              - robotic surgical system**
                - robotic catheter system
                - robotic neurological surgical equipment
                - robotic orthopedic surgical system
            - surgical equipment
            - computer assisted surgery system

Add device name

「davinci」입력하면  
Entree 에서  
자동으로 맵핑



안전성 조사:

da Vinci 및 유사 기기사용 시 유해 사건/부작용 보고 유무를 확인 ②

## Build your search strategy specific to medical devices

Search tips [↗](#)

Device name

robotic surgical system  

+ Add 58 synonyms

Include Subheading

Adverse device effect

Clinical trial

Device comparison

Device econom

Add device name synonyms

58 synonyms for robotic surgical system

AESOP (robotic surgical system)

ARES (robotic surgical system)

Acrobot surgical system

Arthrobot

Corindus CorPath 200

Da Vinci Si-e

Da Vinci Surgical System

Da Vinci X

DaVinci-Si surgical system

Flex (robotic surgical system)

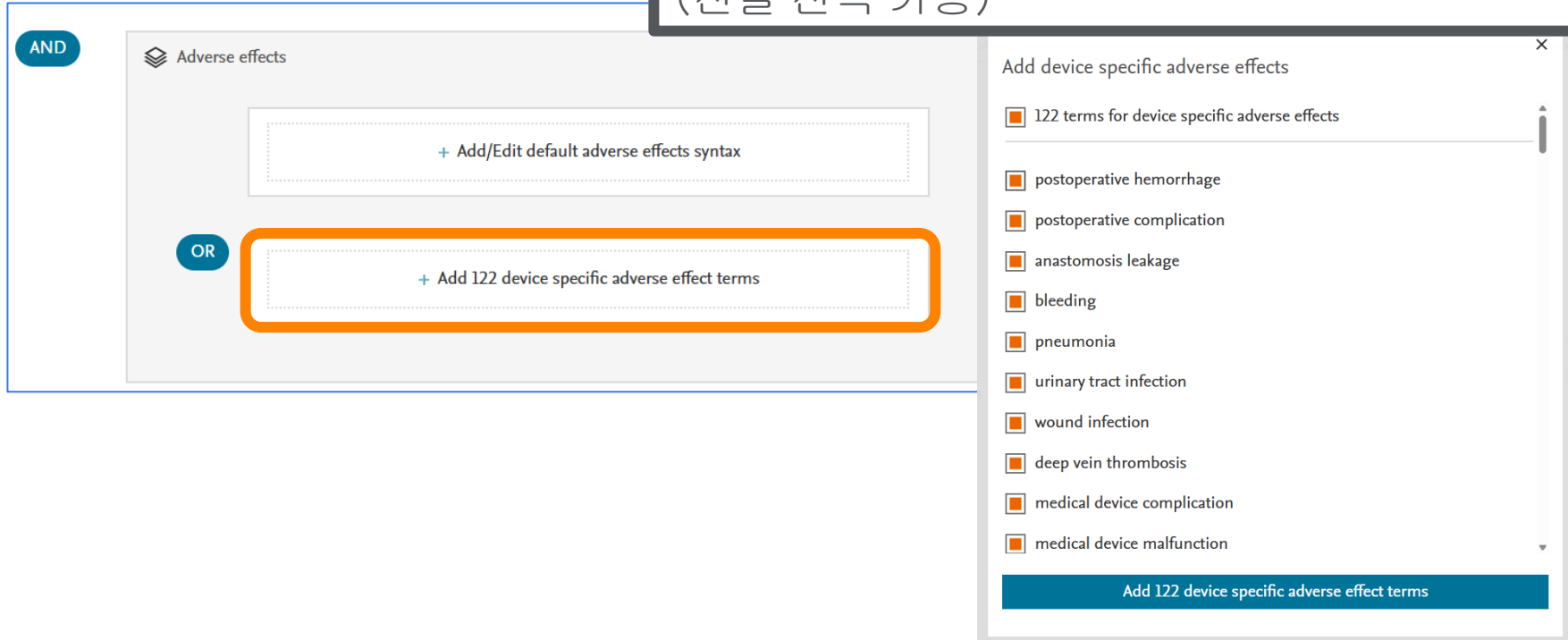
Add 58 synonyms

기기명 등 자동으로  
표시  
(선별 선택 가능)

안전성 조사:

da Vinci 및 유사 기기사용 시 유해 사건/부작용 보고 유무를 확인 ③

## Device 에 따른 다양한 유해사건의 검색어가 표시 (선별 선택 가능)



AND

Adverse effects

+ Add/Edit default adverse effects syntax

OR

+ Add 122 device specific adverse effect terms

Add device specific adverse effects

- 122 terms for device specific adverse effects
- postoperative hemorrhage
- postoperative complication
- anastomosis leakage
- bleeding
- pneumonia
- urinary tract infection
- wound infection
- deep vein thrombosis
- medical device complication
- medical device malfunction

Add 122 device specific adverse effect terms

안전성 조사:

da Vinci 및 유사 기기사용 시 유해 사건/부작용 보고 유무를 확인 ④



AND

Limit options

Study limit

None

None

Humans

Animals

Humans and animals

Humans or animals

Humans not animals

Animals not humans

Full query for "robotic surgical system"

((('robotic surgical system'/exp OR 'robotic surgical system':ti,ab) OR ('robotic surgical system'/exp/'adverse device effect')) AND ('postoperative hemorrhage'/exp OR 'postoperative complication'/exp OR 'anastomosis leakage'/exp OR 'bleeding'/exp OR 'pneumonia'/exp OR 'urinary tract infection'/exp OR 'wound infection'/exp OR 'deep vein thrombosis'/exp OR 'medical device complication'/exp OR 'medical device malfunction'/exp OR 'blood vessel injury'/exp OR 'burn'/exp OR 'injury'/exp OR 'peroperative complication'/exp OR 'surgical infection'/exp OR 'abscess'/exp OR 'atrial fibrillation'/exp OR 'heart infarction'/exp OR 'intestine obstruction'/exp OR 'liver injury'/exp OR 'seroma'/exp OR 'urine incontinence'/exp OR 'wound abdominal bleeding'/exp OR 'adverse event'/exp OR 'anaphylaxis'/exp OR 'anastomosis complication'/exp OR 'anemia'/exp OR 'artery thrombosis'/exp OR 'aspiration pneumonia'/exp OR 'bile leakage'/exp OR 'bladder diverticulum'/exp OR 'bladder perforation'/exp OR 'cellulitis'/exp OR 'cholelithiasis'/exp OR 'chronic diarrhea'/exp OR 'chronic pain'/exp OR

Show 7,505 results

Copy query

대상 군을 선택가능

「davinci」으로 몇번의 클릭만으로 검색식을 자동 생성

Display full query

검색 누락을 방지

# 안전성 조사:

## da Vinci - Index Terms 확인 ⑤



Index Terms 확인하는 것으로  
논문 개요 파악가능

굵은 글씨 : 논문의 주요 테마  
노란색 : 히트한 검색어  
(동의어 포함)  
녹색 : Emtree에서 검색어로  
연결된 어휘

2 Safety and feasibility of single-incision robotic totally extra-peritoneal repair for inguinal hernia using the da Vinci Xi platform: a single-center prospective pilot study  
Lee K.-Y., Lee J., Oh S.-T.  
*Hernia* 2025 29:1 Article Number 25  
Embase MEDLINE NURSING **Abstract** **Index Terms** > View Full Text [Similar records >](#)

**Disease Terms**  
**inguinal hernia**, postoperative complication, recurrent disease

**Device Terms**  
**robotic surgical system**

**Other Terms**  
adult, article, clinical article, **feasibility study**, female, follow up, herniorrhaphy, human, incision, male, middle aged, minimally invasive surgery, operation duration, peritoneum, pilot study, **prospective study**, quality of life, recurrence risk, **robot assisted surgery**, **safety**, **single incision robotic totally extra peritoneal repair**

3 KangDuo surgical robot versus da Vinci robotic system in urologic surgery: a systematic review and meta-analysis  
Wen Z., Yang Y.-X., Yu S., Liu Q.-F., Zhang Y., Yang W.-W., Yang L.  
*Journal of Robotic Surgery* 2025 19:1 Article Number 6  
Embase MEDLINE **Abstract** **Index Terms** > View Full Text [Similar records >](#)

**Disease Terms**  
bleeding, postoperative complication

**Device Terms**  
data analysis software, **robotic surgical device**, **robotic surgical system**

adult, article, data base, data quality assessment, hospitalization, human, meta analysis, partial nephrectomy, Preferred Reporting Items for Systematic Reviews and Meta-Analyses, prostatectomy, randomized controlled trial, randomized controlled trial (topic), sensitivity analysis, **urologic surgery**, urology

7,505 results for search #10 [Set email alert](#) [Set RSS feed](#) [Search details](#) [Index miner](#)

Results    Export | Email | Add to Temporary list

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

1    12 Months Outcomes of Polymer-Free Amphiphilic Eluting Stereolithographic Scaffolds for Aortic Aneurysm Repair - A Single Center Experience  
Sidiropoulou K., Tigkiropoulos K., Chatziathanasiou D., Chatziantoniou G., Apostolou M., et al. *Annals of Vascular Surgery* 2026 122 (564-571)  
Embase MEDLINE NURSING [Abstract](#) [Index Terms](#) [View Full Text](#)

2    Safety and feasibility of single-incision robotic totally extra-peritoneal laparoscopic hernia repair: a single-center prospective pilot study  
Lee K.-Y., Lee J., Oh S.-T. *Hernia* 2025 29:1 Article Number 25  
Embase MEDLINE NURSING [Abstract](#) [Index Terms](#) [View Full Text](#)

3    KangDuo surgical robot versus da Vinci robotic system in urologic laparoscopic prostatectomy: a single-center retrospective study  
Wen Z., Yang Y.-X., Yu S., Liu Q.-F., Zhang Y., Yang W.-W., Yang L. *Journal of Robotic Surgery* 2025 19:1 Article Number 6  
Embase MEDLINE [Abstract](#) [Index Terms](#) [View Full Text](#)

상세 설정 가능

Set Email Alert

Email alerts will produce an email with a maximum of 1000 records.

Alert name

Comments (optional)

Email address(es)

Email addresses should be separated by a semi-colon (;)

Email format  HTML  Text  RIS (as an attachment)

Content selection

Frequency  on

Alert sent  Send an alert only when there are results

Articles in Press and in Process  Include

Preprints  Include

First email alert will be sent on: 2025-10-27

## 제조사 검색: 회사명으로 검색

zard Medical device Advanced Drug Disease Device Citation information Query translator Embase AI New

'zimmer'/df

Search > Mapping Date Sources **Device fields** Device subheadings Quick limits EBM Pub. types Languages

Device fields: manufacturers and trade names

Device manufacturers:

- Phrase search :df
- Exact search /df

Device trade names:

- Phrase search :dn
- Exact search /dn
- Mapped to Entree /de

Zimmer를 「Device manufacturers」로 지정해서 Exact search로 검색

# 제조사 검색: 회사명으로 검색



zimmer/df

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

Results Filters Apply >  History Save | Delete | Print view | Export | Email Combine > using  And  Or  #1 'zimmer/df' 4,362

Sources

Sources

- French local collection: 10
- Embase and MEDLINE: 3491
- MEDLINE: 4
- Preprints: 0
- Clinical Trials: 0
- Embase: 857
- Embase Classic: 0
- Embase Classic and MEDLINE: 0

Results for search #1 Set email alert Set RSS feed Search details Index miner

Export | Email | Add to Temporary list 1 — 25

Number of items Selected: 0 (clear) Show all abstracts Sort by:  Relevance  Author  Publication Year  Entry Date

High-intensity versus low-level laser therapy in treatment of patients with subacromial impingement syndrome: a randomized, double-blind, controlled trial  
Saleh M.S., Galal D.O.S., Ali M.S., Ibrahim D.I.  
Lasers in  
Embase

Trends  
Mulpur P  
Journal of  
Embase

Similar records >

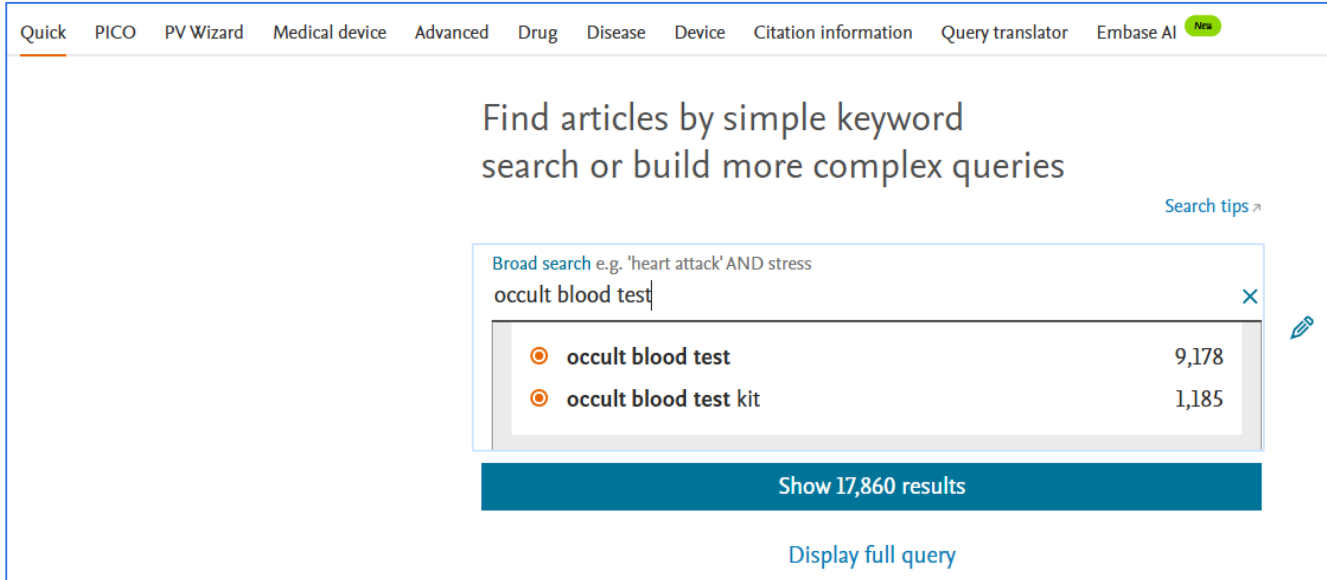
Similar records >

The single antegrade sling graft: a novel hamstring autograft technique for combined anterior cruciate ligament and

검색결과의 20%이상이 PubMed미수록。  
PubMed에서 회사명의 검색 필터가 없기 때문에,  
결과 안에서 저자명이 「Zimmer」인 것 등, 전혀  
관계 없는 문헌을 포함한 검색 결과 가능성이 있음

## 검사 관련 문헌 조사

- 예: 잠혈검사 (대변에 숨은 혈액이 있는지 검사, fecal occult blood test; FOBT) 의 임상 성능 및 안전성 정보에 관한 문헌



Quick PICO PV Wizard Medical device Advanced Drug Disease Device Citation information Query translator Embase AI New

Find articles by simple keyword  
search or build more complex queries [Search tips](#)

Broad search e.g. 'heart attack' AND stress  
occult blood test ×

<input checked="" type="radio"/> occult blood test	9,178
<input checked="" type="radio"/> occult blood test kit	1,185

[Show 17,860 results](#)

[Display full query](#)

Quick Search검색창에 occult blood test를 입력  
Show ##### results를 클릭

# 검사 관련 문헌 조사-검색 결과

17,860 results for search #5 [Set email alert](#) [Set RSS feed](#) [Search details](#) [Index miner](#)

**Results**    [Export](#) | [Email](#) | [Add to Temporary list](#)    1 — 25 [▶](#)

Select number of items ▼ Selected: 0 (clear)    [Show all abstracts](#) | Sort by:  Relevance  Author  Publication Year  Entry Date

1    Relationship between the fecal **occult blood test** and benign anal disorders  
Sasaki K., Kunimoto M., Hirata K.  
*Hepato-Gastroenterology* 2001 48:38 (445-447)  
Embase MEDLINE [▼ Abstract](#) [▲ Index Terms](#)    [Similar records >](#)

**Disease Terms**  
[anus disease](#), [anus fissure](#), [anus fistula](#), [colon polyp](#), [colorectal cancer](#), [hemorrhoid](#), [rectum polyp](#)

**Other Terms**  
[adolescent](#), [adult](#), [aged](#), [article](#), [controlled study](#), [female](#), [fiberscope endoscopy](#), [human](#), [latex agglutination test](#), [major clinical study](#), [male](#), **occult blood**, [priority journal](#), [sigmoidoscopy](#)

2    Diagnostic accuracy of immunochemical faecal **occult blood test** for gastric cancer.  
Nakama H., Kamijo N., Fujimori K., Fattah A.S., Zhang B.  
*Journal of medical screening* 1996 3:3 (113-114)  
MEDLINE [▼ Abstract](#) [▲ Index Terms](#)    [Similar records >](#)

**Disease Terms**  
[stomach tumor](#)

**Other Terms**  
[article](#), [case control study](#), [diagnostic procedure](#), [human](#), [immunochemistry](#), **occult blood**, [standard](#)

3    Colorectal cancer in iron deficiency anemia with a positive result on immunochemical fecal **occult blood**  
Nakama H., Zhang B., Abdul Fattah A.S.M., Zhang X.  
*International Journal of Colorectal Disease* 2000 15:5-6 (271-274)  
Embase MEDLINE [▼ Abstract](#) [▲ Index Terms](#) [> View Full Text](#)    [Similar records >](#)

**Disease Terms**  
[colorectal cancer](#), [iron deficiency anemia](#)

**Other Terms**  
[adult](#), [article](#), [colonoscopy](#), [controlled study](#), [diagnostic accuracy](#), [disease association](#), [feces analysis](#), [female](#), [human](#), [immunochemistry](#), [incidence](#), [major clinical study](#), [male](#), [medical assessment](#), **occult blood test**, [priority journal](#), [sampling](#), [symptomatology](#)

테스트가 인덱스 된 논문이 검색  
됨

# 검사 관련 문헌 조사-검색 결과

- 민감도·특이도에 집중

Broad search e.g. 'heart attack' AND stress  
'sensitivity and specificity'

+ Add field    ∨ Limit to

Show 608,145 results

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

- #6 'sensitivity and specificity'/exp OR 'sensitivity and specificity'
- #5 'occult blood test'/exp OR 'occult blood test' OR (occult AND ('blood'/exp OR blood) AND ('test'/exp OR test))
- #4 'occult blood test'/exp OR 'occult blood test' OR (occult AND ('blood'/exp OR blood) AND ('test'/exp OR test))
- #3 'occult blood test'/exp OR 'occult blood test'
- #2 'occult blood test kit'/exp OR 'occult blood test kit'
- #1 'zimmer'/df

608,145 results for search #6    Set email alert    Set RSS feed    Search details    Index miner

Results    Export | Email | Add to Temporary list    1 — 25 >

Select number of items    Selected: 0 (clear)    Show all abstracts    Sort by:  Relevance     Author     Publication Year     Entry Date

1    Factors affecting the sen...  
photographs  
Suzuki Y, Fujita A, Akiyama...

2,054 results for search #7    Set email alert    Set RSS feed    Search details    Index miner

Results    Export | Email | Add to Temporary list    1 — 25 >

Select number of items    Selected: 0 (clear)    Show all abstracts    Sort by:  Relevance     Author     Publication Year     Entry Date

1    A new immunological test strip device for the rapid, qualitative detection of faecal occult blood  
Trojan J, Povse N, Schröder O, Stein J  
Zeitschrift für Gastroenterologie 2002 40:11 (921-924)  
Embase MEDLINE Abstract Index Terms View Full Text    Similar records >

Drug Terms  
gualiac%, hemoglobin%

Disease Terms  
colorectal cancer%, Crohn disease%, ulcerative colitis%

Other Terms  
article%, diagnostic accuracy%, enzyme linked immunosorbent assay%, human%, immunoassay%, intermethod comparison%, laboratory test%, major clinical study%, occult blood%, occult blood test%, screening test%

2    Lower specificity of occult-blood test on stool collected by digital rectal examination  
Zhang B, Nakama H, Fattah A, Kamijo N  
Hepato-Gastroenterology 2002 49:43 (165-167)  
Embase MEDLINE Abstract Index Terms    Similar records >

Disease Terms  
colorectal cancer%

Other Terms  
article%, colonoscopy%, controlled study%, diagnostic accuracy%, feces%, human%, immunochemistry%, major clinical study%, occult blood test%, physical examination%, priority journal%, rectum%, screening%, tumor biopsy%

3    A Prospective Study of a New Immunochemical Fecal Occult Blood Test in U.S. Veteran Patients Undergoing Colonoscopy  
clinicaltrials.gov 2007  
CLINICAL TRIAL Abstract Index Terms View Full Text    Similar records >

2회 검색한 결과를 페이지 상단의 History에 남아있어, 이를 Combine으로 클릭. 결과는 좁힐 수 있음

## 검사 관련 문헌 조사-검색 결과

- 안정성 정보 확인      체외 검사를 위해, 정확성(신뢰성)에 대한 지표도 중요  
 왼쪽에 있는 필터 중 Study Type을 열어, Diagnostic test accuracy study을 선택, Apply 클릭

### Study types filter

- human
- major clinical study
- controlled study
- diagnostic test accuracy study
- cohort analysis
- prospective study
- human tissue
- retrospective study
- intermethod comparison
- nonhuman
- practice guideline
- systematic review
- comparative study
- clinical trial
- multicenter study

1 2 3 4 5

Study types
#1 zimmer/di
4,362

1968	<input checked="" type="checkbox"/> diagnostic test accuracy study	768
970	<input type="checkbox"/> human	759
912	<input type="checkbox"/> major clinical study	550
768	<input type="checkbox"/> controlled study	549
266	<input type="checkbox"/> cohort analysis	181
262	<input type="checkbox"/> human tissue	172
251	<input type="checkbox"/> prospective study	162
212	<input type="checkbox"/> retrospective study	128

Click on 'Apply' to apply your selection

[+ More](#) [Export](#)

Publication types [v](#)

Journal titles [v](#)

Publication years [v](#)

Authors [v](#)

768 results for search #9

Set email alert    Set RSS feed    Search details    Index miner

Results    Export | Email | Add to Temporary list    1 — 25

Select number of items    Selected: 0 (clear)    Show all abstracts    Sort by:  Relevance     Author     Publication Year

1    Faecal **occult blood test** in intestinal helminthiasis

Kali A., Srirangaraj S., Seetha K.S.

*International Journal of Pharma and Bio Sciences* 2014 5:4 (B734-B738)

Embase    Abstract    Index Terms    Similar records >

**Disease Terms**  
[helminthiasis](#), [intestinal helminthiasis](#), [intestine infection](#)

**Other Terms**  
[adolescent](#), [adult](#), [article](#), [child](#), [controlled study](#), [cross-sectional study](#), [diagnostic accuracy](#), [diagnostic test accuracy study](#), [diagnostic value](#), [female](#), [helminth](#), [human](#), [intestine parasite](#), [major clinical study](#), [male](#), [middle aged](#), [nonhuman](#), [occult blood test](#), [preschool child](#), [prospective study](#), [school child](#), [screening test](#), [sensitivity and specificity](#), [young adult](#)

2    Diagnostic value of fecal tumor M2-pyruvate kinase for CRC screening: A systematic review and meta-analysis

# 검사 관련 문헌 조사-검색 결과

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

<input checked="" type="checkbox"/> #8	'risk assessment'	891,993
<input type="checkbox"/> #7	#5 AND 'diagnostic test accuracy study'/de	768
<input type="checkbox"/> #6	'sensitivity and specificity'/exp OR 'sensitivity and specificity'	608,145
<input type="checkbox"/> #5	#3 AND #4	
<input type="checkbox"/> #4	'sensitivity and specificity'/exp OR 'sen	
<input checked="" type="checkbox"/> #3	'occult blood test'/exp OR 'occult b	
<input type="checkbox"/> #2	'occult blood test'/exp OR 'occult blood	
<input type="checkbox"/> #1	'zimmer'/df	

또는 검색창에서  
risk assessment을 검색하고,  
결과에서 다시 조합하여 검색

#3 AND #8

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

777 results for search #9   Set email alert   Set RSS feed   Search details   Index miner

Results   Export | Email | Add to Temporary list   1 — 25 >

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

1   Fecal **occult blood test** performance indicators in warfarin-treated patients  
Kershenbaum A., Lavi I., Rennett G., Almog R.  
*Diseases of the Colon and Rectum* 2010 53:2 (224-229)  
Embase   MEDLINE   Abstract   Index Terms   View Full Text   Similar records >

**Drug Terms**  
acetylsalicylic acid<sup>Ⓢ</sup>, [anticoagulant agent](#)<sup>Ⓢ</sup>, nonsteroid antiinflammatory agent<sup>Ⓢ</sup>, [warfarin](#)<sup>Ⓢ</sup>

**Disease Terms**  
[colorectal cancer](#)<sup>Ⓢ</sup>, [gastrointestinal hemorrhage](#)<sup>Ⓢ</sup>, [thrombosis](#)<sup>Ⓢ</sup>

**Other Terms**  
adult<sup>Ⓢ</sup>, aged<sup>Ⓢ</sup>, [anticoagulant therapy](#)<sup>Ⓢ</sup>, article<sup>Ⓢ</sup>, [cancer screening](#)<sup>Ⓢ</sup>, colonoscopy<sup>Ⓢ</sup>, female<sup>Ⓢ</sup>, follow up<sup>Ⓢ</sup>, human<sup>Ⓢ</sup>, major clinical study<sup>Ⓢ</sup>, male<sup>Ⓢ</sup>, [occult blood](#)<sup>Ⓢ</sup>, [occult blood test](#)<sup>Ⓢ</sup>, patient counseling<sup>Ⓢ</sup>, [risk assessment](#)<sup>Ⓢ</sup>, screening test<sup>Ⓢ</sup>, thrombosis prevention<sup>Ⓢ</sup>

2   Implementation of colorectal cancer risk prediction in primary care  
Emery L.

## 특정 질환 분야에서 바이오 마커 탐색

- 예: 암 (oncology) · 감염증 이외의 영역에서 핵산 바이오마커 관련 문헌 수집

<input type="checkbox"/> <b>History</b>	Save   Delete   Print view   Export   Email
<input type="checkbox"/> <b>Combine</b> >	using <input checked="" type="radio"/> And <input type="radio"/> Or <span style="float: right;">^ Collapse</span>
<input type="checkbox"/> #13	#12 NOT (#11 OR #10) <span style="float: right;">385,670</span>
<input type="checkbox"/> #12	'biological marker' <span style="float: right;">618,995</span>
<input type="checkbox"/> #11	'malignant neoplasm'/exp <span style="float: right;">5,366,754</span>
<input type="checkbox"/> #10	'infection'/exp OR infection <span style="float: right;">5,988,104</span>

바이오마커, 암, 감염증을 각각 검색하세요.  
(특히 질병명은 Emtree에서 검색하는 것을 추천드립니다.)

암 뿐만 아니라 매우 세밀한 분류까지 되어  
있어, 어떤 범위에서도 검색이 가능합니다.)  
각각의 검색 결과에서 바이오마커 검색 결과를  
NOT 연산자를 사용하여 제외 시키세요.

특정 질환으로 한정 시키고 싶을 때는  
검색창에 넣고 AND연산자를 사용하여 재검색

**1** Is a **biological marker** for osteoarthritis within reach?  
Chevalier X.  
*Revue du Rhumatisme (English Edition)* 1997 64:10 (562-576)

Embase MEDLINE [v Abstract](#) [^ Index Terms](#) [Similar records >](#)

**Drug Terms**  
**biological marker**, fibronectin, metalloproteinase, phospholipase A2.

**Disease Terms**  
cartilage degeneration, osteoarthritis.

**Other Terms**  
bone metabolism, human, protein determination, review, synovium.

**2** Monitoring ADHD in children treatment with a new **biological marker** of ADHD  
Varela P., Ramos-Quiroga J.A., Super H., Cañete J.  
*ADHD Attention Deficit and Hyperactivity Disorders* 2019 11:1 Supplement (S71-S72)

Embase [v Abstract](#) [^ Index Terms](#) [> View Full Text](#) [Similar records >](#)

**Drug Terms**  
**biological marker**, biological product, lisdexamfetamine, methylphenidate.

**Disease Terms**  
attention deficit hyperactivity disorder.

**Other Terms**  
adolescent, binocular convergence, child, clinical article, conference abstract, controlled study, diagnosis, drug therapy, eye movement, female, human, male, monitoring, preliminary data, probability, Spain, statistics.

## 바이러스 검사약 검색

- 바이러스 검사 및 진단 키트에 관한 논문 중에서, 진단테스트의 정확성시험의 평가를 수행한 논문 조사

<input type="checkbox"/> <b>History</b> <span style="margin-left: 20px;">Save   Delete   Print view</span>		
Combine > using <input checked="" type="radio"/> And <input type="radio"/> Or		^ Collapse
<input type="checkbox"/> #16	#15 AND #14	6,495
<input type="checkbox"/> #15	'diagnostic kit'/exp	346,183
<input type="checkbox"/> #14	'virus detection'/exp	57,268

- virus detection, diagnostic kit로 각각 검색 하고 , AND로 조합
- 진단테스트의 정확성 평가를 위해 Study type에서 필터


Study types		^
<input type="checkbox"/> human	3205	<input type="checkbox"/> More <span style="float: right;">&gt; Export</span>
<input type="checkbox"/> nonhuman	2887	
<input type="checkbox"/> controlled study	2657	
<input type="checkbox"/> major clinical study	1532	
<input checked="" type="checkbox"/> diagnostic test accuracy study	817	
<input type="checkbox"/> animal experiment	548	
<input type="checkbox"/> human tissue	506	
<input type="checkbox"/> intermethod comparison	484	
Click on 'Apply' to apply your selection		

### Browse Emtree

Search term in Emtree  
virus detection

- Emtree
  - procedures, parameters and devices
    - procedures
      - taxonomic identification
        - microorganism detection
          - virus detection
  - medical procedures
    - diagnostic procedure
      - microbiological examination
        - virus examination
          - virus detection


Term information    Query builder

virus detection 

Extend search using: /exp

Show 57,268 results

+ Add to query builder

^ Synonyms (3)  Copy

This term was added to Emtree in 1981

Embase에서 트리 구조의 사전을 보유  
예 : Virus detection

# 바이러스 검사약 검색

- 검색결과

1 **Viral detection using Clustered Regularly Interspaced Short Palindromic Repeats/CRISPR-associated protein and Argonaute nucleases**  
 Xu L., Wu X.  
*Clinica Chimica Acta* 2026 578 Article Number 120526  
 Embase MEDLINE [Abstract](#) [Index Terms](#) [View Full Text](#) [Similar records >](#)

**Drug Terms**  
 argonaute protein, CRISPR associated protein, deoxyribonuclease, DNA, nanoparticle, nuclease, quantum dot

**Disease Terms**  
 coronavirus disease 2019

**Device Terms**  
 lab on a chip, microfluidic device, mobile phone, **molecular diagnostics**

**Other Terms**  
 clustered regularly interspaced short palindromic repeat, controlled study, CRISPR Cas system, diagnosis, **diagnostic test accuracy study**, fluorescence, human, limit of detection, nonhuman, **nucleic acid analysis**, polymerase chain reaction, reaction time, recombinase polymerase amplification, reporter gene, review, **Severe acute respiratory syndrome coronavirus 2**, spatial discrimination, **virus detection**

2 **G4-NASBA: An ultra-fast, highly sensitive and portable isothermal detection system for diagnosing influenza A virus**  
 Luo L., Zhang Y., Sun Z., He Y., Ma J., Yang X., Li S., Wu X., Wang Y.  
*Talanta* 2026 297 Article Number 128657  
 Embase MEDLINE [Abstract](#) [Index Terms](#) [View Full Text](#) [Similar records >](#)

**Disease Terms**  
**influenza A**, upper respiratory tract infection

**Device Terms**  
 data analysis software, GraphPad Prism version 10.1.2, Nano Drop 2000c spectrophotometer, polymerase chain reaction system, **reverse transcriptase PCR assay kit**, spectrophotometer, T7 High Yield RNA Transcription Kit, **thermal regulating system**

**Other Terms**  
 article, **diagnostic test accuracy study**, gene amplification, human, **Influenza A virus**, nonhuman, point of care testing, real time polymerase chain reaction, RNA extraction, sensitivity and specificity, **virus detection**

사용된 시험키트와  
어떤 내용이  
주요하게 다루는  
논문인지 파악

## 바이러스 검사약 검색

- 민감도 · 특이도에 집중

- ✓ 앞의 사례와 같이, **Virus detection**와 **diagnostic kit**로 각각 검색, 결과를 **AND**로 조합
- ✓ **Sensitivity and specificity**를 검색하고, 위의 결과와 조합하여 검색

History		Save	Delete	Print view	Export	using <input checked="" type="radio"/> And <input type="radio"/> Or	^ Collapse
<input type="checkbox"/>	#19	#16 AND #18					1,868
<input type="checkbox"/>	#18	'sensitivity and specificity'					608,145
<input type="checkbox"/>	#17	#16 AND 'diagnostic test accuracy study'					1,106
<input type="checkbox"/>	#16	#15 AND #14					
<input type="checkbox"/>	#15	'diagnostic kit'/exp					
<input type="checkbox"/>	#14	'virus detection'/exp					

1868건 결과가 나옴  
해당 최신 연구논문을 간단하게 확인 가능

1 An ultrasensitive biosensor for H1N1 virus coupled with 3D spherical DNA nanostructure and CRISPR-Cas12a  
Zhang Z., Wang J., Li C., Sun H., Bu S., Jia Q., Wan Y., Zhao Y., Zhou H., Hao Z., Li N., Yu S., Wang L., Wan J.  
*Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy* 2026 346 Article Number 126905

Embase MEDLINE [v Abstract](#) [^ Index Terms](#) [> View Full Text](#) [Similar records >](#)

**Drug Terms**  
aptamer

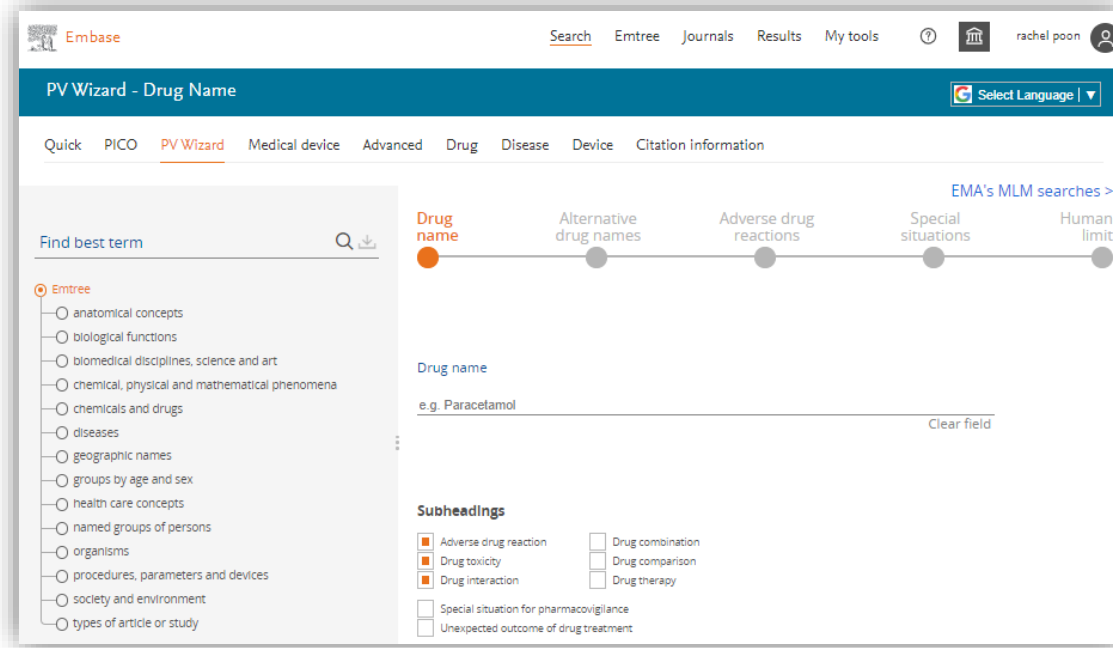
**Device Terms**  
biosensor, centrifuge, data analysis software, EnGen Lba Cas12a, fluorescence spectrophotometer, GraphPad Prism 8.0.2 software, HiScribe T7 Quick High Yield RNA Synthesis Kit, imaging system, iTaq Universal SYBR Green Supermix, LightCycler 96 Instrument, microcentrifuge D302, microplate reader, Monarch Spin RNA Cleanup Kit, Multiskan FC microplate reader, Nano Drop ND-1000, Nano ZS90, particle size analyzer, polymerase chain reaction system, Primer 5.0 software, PrimeScript 1st Strand cDNA Synthesis Kit, **reverse transcriptase PCR assay kit**, RNA purification kit, SH-510 gel imaging system, Smart Spec Plus spectrophotometer, spectrophotometer, T7 Rapid High Yield RNA Synthesis Kit, Thermo ND-3300 fluorescence spectrophotometer, TIANamp Virus RNA kit, **ultrasensitive biosensor**, Zetasizer

**Other Terms**  
article, atomic force microscopy, controlled study, **CRISPR Cas system**, **DNA structure**, fluorescence intensity, Gallus gallus, genetic engineering and gene technology, **Influenza A virus (H1N1)**, milk, nonhuman, photon correlation spectroscopy, real time polymerase chain reaction, recognition, **sensitivity and specificity**, signal transduction, **three-dimensional imaging**, virus attachment, **virus detection**



Build a PV search strategy

**PV Wizard** is an intuitive query builder that has a **pre-coded pharmacovigilance (PV) search strategy** constructed in consultation with pharma industry partners.



The screenshot shows the 'PV Wizard - Drug Name' interface. At the top, there is a navigation bar with 'Search', 'Emtree', 'Journals', 'Results', 'My tools', and a user profile 'rachel.poon'. Below this is a blue header with 'PV Wizard - Drug Name' and a 'Select Language' dropdown. A secondary navigation bar includes 'Quick', 'PICO', 'PV Wizard' (highlighted), 'Medical device', 'Advanced', 'Drug', 'Disease', 'Device', and 'Citation information'. The main content area features a 'Find best term' search box on the left with a dropdown menu showing 'Emtree' and various categories like 'anatomical concepts', 'biological functions', etc. To the right, a horizontal progress bar shows five steps: 'Drug name' (selected), 'Alternative drug names', 'Adverse drug reactions', 'Special situations', and 'Human limit'. Below the progress bar, the 'Drug name' field contains 'e.g. Paracetamol' and a 'Clear field' button. A 'Subheadings' section contains several checkboxes: 'Adverse drug reaction', 'Drug toxicity', 'Drug interaction', 'Special situation for pharmacovigilance', 'Unexpected outcome of drug treatment', 'Drug combination', 'Drug comparison', and 'Drug therapy'.

- ✓ Effective
- ✓ High-quality results
- ✓ Industry standard

By providing a structured framework, it **simplifies the search-building process**, enabling users to **quickly construct successful literature monitoring search queries** in an easy and fast manner.

# How the PV Search Strategy is built

'paracetamol'/**drug toxicity**,'drug interaction','adverse drug reaction'

**OR** ('paracetamol':**de** OR '4 acetamidophenol':**tn,ab,ti** OR '4 acetaminophenol':**tn,ab,ti** OR '4 acetylamino phenol':**tn,ab,ti**...)

**AND** ('adverse drug reaction'/**exp** OR adverse:de,ab,ti OR ((side OR undesirable OR unwanted) **NEXT/2** (effect\* OR reaction\* OR event\* OR outcome\*)):de,ab,ti OR 'side effect'/exp OR 'complication'/exp OR complication\*:de,ab,ti OR 'case report\*':de,ab,ti ...)

**OR** 'pregnancy'/exp OR pregnant\*:de,ab,ti OR pregnanc\*:de,ab,ti OR 'pregnancy complication'/exp OR 'pregnancy disorder'/exp OR 'abortion'/exp OR 'abortion':de,ab,ti OR...))

**AND** ('human'/exp OR human OR m?n OR wom?n OR child OR boy OR girl)

***Drug subheadings***

***Drug name and variants***

***Adverse drug reaction concept***

***Special situations***

***Human limit***

# The fundamentals of the PV framework



## Backend framework

### Search Summary

Start [Drug] / [Subheading]  
OR ([Drug name]  
AND ([Adverse drug reaction]  
OR [Special conditions]))  
AND [Human limit]

# The full search string of PV Wizard

'paracetamol'/drug toxicity,'drug interaction','adverse drug reaction'  
 OR ('paracetamol-induced':de,ab,ti  
 OR ('paracetamol':de OR '4 acetamidophenol':tn,ab,ti OR '4 acetaminophenol':tn,ab,ti OR '4 acetylamino phenol':tn,ab,ti OR '4 hydroxyacetanilide':tn,ab,ti OR '4 hydroxyacetanilide':tn,ab,ti OR 'abeno':tn,ab,ti OR 'acamol':tn,ab,ti OR 'acamoli forte suppositories for kids':tn,ab,ti OR 'aceno':tn,ab,ti OR 'acephen':tn,ab,ti OR 'acet suppositories':tn,ab,ti OR 'acetalgin':tn,ab,ti OR 'acetamino phenol':tn,ab,ti OR 'acetaminophen':tn,ab,ti OR 'acetaminophene':tn,ab,ti OR 'acetaminophenol':tn,ab,ti OR 'acetamol':tn,ab,ti OR 'acetomenophen':tn,ab,ti OR 'acetylamino phenol':tn,ab,ti OR 'adorem':tn,ab,ti OR 'afebrin':tn,ab,ti OR 'algiafin':tn,ab,ti OR 'algotropyl':tn,ab,ti OR 'alphagesic':tn,ab,ti OR 'alvedon':tn,ab,ti OR 'amadil':tn,ab,ti OR 'anacin 3':tn,ab,ti OR 'analfon':tn,ab,ti OR 'analgesic':tn,ab,ti OR 'apamide':tn,ab,ti OR 'apap':tn,ab,ti OR 'apirex':tn,ab,ti OR 'apotel':tn,ab,ti OR 'arthralgen':tn,ab,ti OR 'ar tamel':tn,ab,ti OR 'ben-u-ron':tn,ab,ti OR 'benuron':tn,ab,ti OR 'biogesic':tn,ab,ti OR 'biogesic suspension':tn,ab,ti OR 'bodrex':tn,ab,ti OR 'calapof':tn,ab,ti OR 'calodol':tn,ab,ti OR 'calonal':tn,ab,ti OR 'calpol':tn,ab,ti OR 'causalon':tn,ab,ti OR 'cemo':tn,ab,ti OR 'christamol':tn,ab,ti OR 'claradol':tn,ab,ti OR 'clocephen':tn,ab,ti OR 'cp500':tn,ab,ti OR 'cp500':tn,ab,ti OR 'dafalgan':tn,ab,ti OR 'daga':tn,ab,ti OR 'datril':tn,ab,ti OR 'depon':tn,ab,ti OR 'depyretin':tn,ab,ti OR 'dirox':tn,ab,ti OR 'disimifen':tn,ab,ti OR 'dispol':tn,ab,ti OR 'dolah':tn,ab,ti OR 'dolex':tn,ab,ti OR 'dolex 500':tn,ab,ti OR 'doliprane':tn,ab,ti OR 'dolitabs':tn,ab,ti OR 'dolofen':tn,ab,ti OR 'dolomol':tn,ab,ti OR 'dolorol':tn,ab,ti OR 'dolotemp':tn,ab,ti OR 'dolprone':tn,ab,ti OR 'doltem':tn,ab,ti OR 'drilan':tn,ab,ti OR 'dristan af':tn,ab,ti OR 'duorol':tn,ab,ti OR 'dymadon':tn,ab,ti OR 'efferalgan':tn,ab,ti OR 'efferalgan 500':tn,ab,ti OR 'efferalganodis':tn,ab,ti OR 'efferalgan':tn,ab,ti OR 'enelfa':tn,ab,ti OR 'eneril':tn,ab,ti OR 'eraldor':tn,ab,ti OR 'expandol':tn,ab,ti OR 'febrilix':tn,ab,ti OR 'fendon':tn,ab,ti OR 'fervex':tn,ab,ti OR 'fibrinol':tn,ab,ti OR 'fortolin':tn,ab,ti OR 'gelocatil':tn,ab,ti OR 'geluprane 500':tn,ab,ti OR 'gunaceta':tn,ab,ti OR 'headache strength allersit':tn,ab,ti OR 'hedex':tn,ab,ti OR 'infants feverall':tn,ab,ti OR 'injectapap':tn,ab,ti OR 'janupap':tn,ab,ti OR 'kamolas':tn,ab,ti OR 'kyofen':tn,ab,ti OR 'lemgrip':tn,ab,ti OR 'letamol':tn,ab,ti OR 'liquipirin':tn,ab,ti OR 'lotemp':tn,ab,ti OR 'lyteca':tn,ab,ti OR 'malidens':tn,ab,ti OR 'medamol':tn,ab,ti OR 'mefogresic':tn,ab,ti OR 'metagesic':tn,ab,ti OR 'metaldil':tn,ab,ti OR 'mexalen':tn,ab,ti OR 'milidon 500':tn,ab,ti OR 'minopan':tn,ab,ti OR 'mypara':tn,ab,ti OR 'n-acetyl para amino phenol':tn,ab,ti OR 'n-acetyl p-aminophenol':tn,ab,ti OR 'nalgesic':tn,ab,ti OR 'napamol':tn,ab,ti OR 'napap':tn,ab,ti OR 'naprex':tn,ab,ti OR 'nektol 500':tn,ab,ti OR 'neocitrin':tn,ab,ti OR 'neodalmir':tn,ab,ti OR 'neopap':tn,ab,ti OR 'nevral':tn,ab,ti OR 'nilapur':tn,ab,ti OR 'nobedon':tn,ab,ti OR 'nysaceto':tn,ab,ti OR 'ofirmev':tn,ab,ti OR 'pacemof':tn,ab,ti OR 'pacimol':tn,ab,ti OR 'pamal':tn,ab,ti OR 'pamol':tn,ab,ti OR 'panadol':tn,ab,ti OR 'panadol actifast':tn,ab,ti OR 'panadol soluble':tn,ab,ti OR 'panamax':tn,ab,ti OR 'panasorb':tn,ab,ti OR 'panodil':tn,ab,ti OR 'para acetamidophenol':tn,ab,ti OR 'para acetylamino phenol':tn,ab,ti OR 'para hydroxyacetanilide':tn,ab,ti OR 'para suppo':tn,ab,ti OR 'paracet':tn,ab,ti OR 'paracetaminophenol':tn,ab,ti OR 'paracetamol':tn,ab,ti OR 'paracetamol ester':tn,ab,ti OR 'paracetamole':tn,ab,ti OR 'parageniol':tn,ab,ti OR 'paragin':tn,ab,ti OR 'paralen':tn,ab,ti OR 'paralief':tn,ab,ti OR 'paramax':tn,ab,ti OR 'paramidol':tn,ab,ti OR 'parapaed':tn,ab,ti OR 'parapaed junior':tn,ab,ti OR 'parapaed six plus':tn,ab,ti OR 'paratabs':tn,ab,ti OR 'paravid':tn,ab,ti OR 'pasolind':tn,ab,ti OR 'pasolind n':tn,ab,ti OR 'paximol':tn,ab,ti OR 'pedipan':tn,ab,ti OR 'penral-night':tn,ab,ti OR 'perfalgan':tn,ab,ti OR 'phenaphen':tn,ab,ti OR 'pinex':tn,ab,ti OR 'polarfen':tn,ab,ti OR 'predimol':tn,ab,ti OR 'puerno':tn,ab,ti OR 'pyrigesic':tn,ab,ti OR 'raperon':tn,ab,ti OR 'ripidof':tn,ab,ti OR 'relaphen':tn,ab,ti OR 'reliv':tn,ab,ti OR 'remedol':tn,ab,ti OR 'revanin':tn,ab,ti OR 'rhinapen elixir':tn,ab,ti OR 'rhodapap':tn,ab,ti OR 'roxamol gelcaps':tn,ab,ti OR 'salzone':tn,ab,ti OR 'sedes a':tn,ab,ti OR 'serimol':tn,ab,ti OR 'setamol':tn,ab,ti OR 'sinaspril':tn,ab,ti OR 'sinedol':tn,ab,ti OR 'sinpro':tn,ab,ti OR 'tabalgin':tn,ab,ti OR 'tachipirin':tn,ab,ti OR 'tachipirina':tn,ab,ti OR 'taganopain':tn,ab,ti OR 'tapar':tn,ab,ti OR 'tempra':tn,ab,ti OR 'tempte':tn,ab,ti OR 'temzard':tn,ab,ti OR 'termofen':tn,ab,ti OR 'tralgon':tn,ab,ti OR 'tralgon elixir':tn,ab,ti OR 'tramil':tn,ab,ti OR 'treuphadox':tn,ab,ti OR 'turpan':tn,ab,ti OR 'tylenol':tn,ab,ti OR 'tylenol (caplet)':tn,ab,ti OR 'tylenol (geltab)':tn,ab,ti OR 'tylenol extra fuerte':tn,ab,ti OR 'tylenol forte':tn,ab,ti OR 'tylenol n 1':tn,ab,ti OR 'tylex':tn,ab,ti OR 'valadol':tn,ab,ti OR 'winadol':tn,ab,ti OR 'winasorb':tn,ab,ti OR 'xebramol':tn,ab,ti OR 'zolgen':tn,ab,ti OR 'zydinol':tn,ab,ti

AND ('adverse drug reaction'/exp OR 'adverse drug reaction':lnk OR adverse:de,ab,ti OR ((side OR undesirable OR unwanted) NEXT/2 (effect\* OR reaction\* OR event\* OR outcome\*)):de,ab,ti OR 'side effect'/lnk OR 'side effect'/exp OR 'complication'/lnk OR 'complication'/exp OR complication':de,ab,ti OR 'worsening':de,ab,ti  
 OR 'case report':de,ab,ti OR 'pharmacovigilance':de,ab,ti OR 'postmarketing surveillance'/exp OR 'drug interaction':lnk OR 'drug interaction'/exp OR 'toxicity'/exp OR 'drug toxicity':lnk OR toxic\*:de,ab,ti OR intox\*:de,ab,ti OR 'safety':de,ab,ti OR poison\*:de,ab,ti OR pharmacotox\*:de,ab,ti OR neurotox\*:de,ab,ti OR cardiotox\*:de,ab,ti OR nephrotox\*:de,ab,ti OR hepatotox\*:de,ab,ti OR immunotox\*:de,ab,ti OR immunocytotox\*:de,ab,ti OR cytotox\*:de,ab,ti OR carcinogen\*:de,ab,ti OR cancerogen\*:de,ab,ti OR mutagen\*:de,ab,ti OR terato\*:de,ab,ti OR 'fatal outcome'/exp OR 'death'/exp OR 'suicide'/exp OR 'suicid':de,ab,ti OR 'mortal':de,ab,ti OR 'fatal':de,ab,ti OR 'risk'/exp OR 'nocibe':de,ab,ti OR 'lethal concentration'/exp OR 'iatrogenic disease'/exp OR 'fertility'/exp OR 'substance-related disorders'/exp OR 'chemically induced':de,ab,ti OR 'morbidity':de,ab,ti OR 'congenital disorder':de,ab,ti OR 'infertility'/exp OR 'injury'/exp

OR 'pregnancy'/exp OR 'pregnant':de,ab,ti OR 'pregnanc':de,ab,ti OR 'pregnancy complication'/exp OR 'pregnancy disorder'/exp OR 'abortion'/exp OR 'lactation'/exp OR 'breast feeding':de,ab,ti OR 'breastfeeding':de,ab,ti OR 'breast milk':de,ab,ti OR 'reproduction'/exp OR 'fetus'/de OR 'embryo'/de OR 'prenatal':de,ab,ti OR 'perinatal':de,ab,ti OR 'newborn':de,ab,ti OR 'parameters concerning the fetus, newborn and pregnancy'/exp OR 'aged'/exp OR 'elderly':de,ti,ab OR 'geriatric':ti,ab  
 OR (environmental OR occupational) NEXT/1 (exposure\*):de,ab,ti OR 'compassionate use':de,ab,ti OR (named NEXT/1 (use OR patient\*)):ab,ti OR 'inappropriate prescri':de,ab,ti OR 'drug metabolism'/exp OR 'organ dysfunction':de,ab,ti OR 'organ failure':de,ab,ti OR 'hypersensitivity':de,ab,ti OR 'allerg':de,ab,ti OR 'counterfeit':de,ab,ti OR 'falsified drug':de,ab,ti OR ('unavailab\* NEAR/2 drug):de,ab,ti OR 'drug resistance'/exp OR 'drug resistance':de,ab,ti OR 'withdrawal syndrome'/de OR (drug\* NEAR/3 (withdrawal OR toleran\* OR interact\* OR exposure\* OR induc\* OR resist\* OR ineff\* OR unrespon\* OR unrespon\*)):de,ab,ti OR 'drug tolerance'/exp OR (drug\* OR treatment) NEXT/1 (failure\* OR contraindication\*):de,ab,ti OR 'medication error'/exp OR (near NEXT/1 miss\*):ab,ti OR 'ineff':ti OR 'nonrespon':ti OR 'unrespon':ti OR ((lack OR no OR non OR 'not') NEXT/2 (eff\* OR respon\*)):ab,ti OR 'device failure':de,ab,ti OR 'manufacturing near/3 (error OR fault OR mistake OR failure OR contamination OR impurity) OR 'patient compliance'/exp OR 'overdos':de,ab,ti OR 'drug abuse'/exp OR abus\*:de,ab,ti OR misus\*:de,ab,ti OR 'off label':de,ab,ti OR 'unlicensed':de,ab,ti)

AND ('human'/exp OR human OR m?n OR wom?n OR child OR boy OR girl)



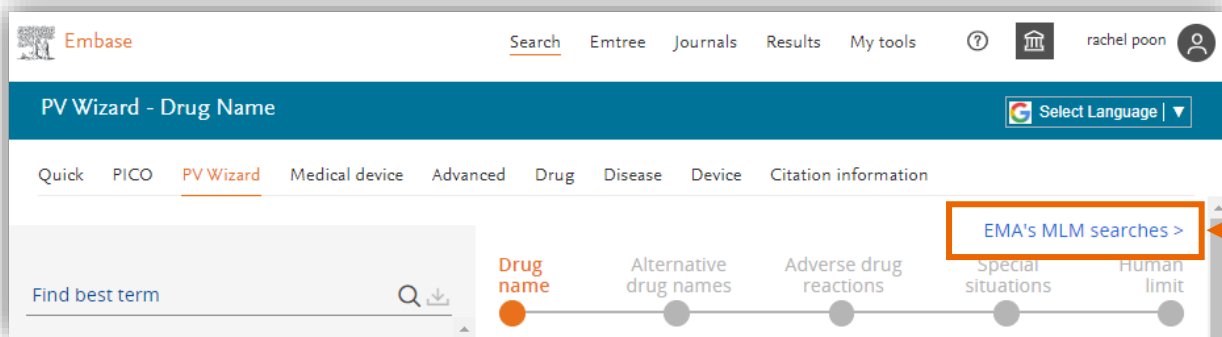
## EMA MLM's Search

# EMA MLM's Service

**The European Medicines Agency (EMA) is responsible for monitoring a number of substances and selected medical literature, to help identify suspected adverse reactions to medicines authorised in the European Union (EU). EMA also enters relevant information into the EudraVigilance database.**

EMA Medical Literature Monitoring

- The European Medicines Agency (EMA) started its full medical literature monitoring (MLM) service on Sept 1, 2015.
- A total of 400 active substance groups (~300 chemical active substance groups & 100 herbal active substance groups) are monitored by EMA, using Embase as the database to cover literatures from EEA (European Economic Area) or non-EEA countries.
- Embase provides the full list of search strategies used by EMA.



You can go to EMA's MLM searches from PV Wizard on Embase.com

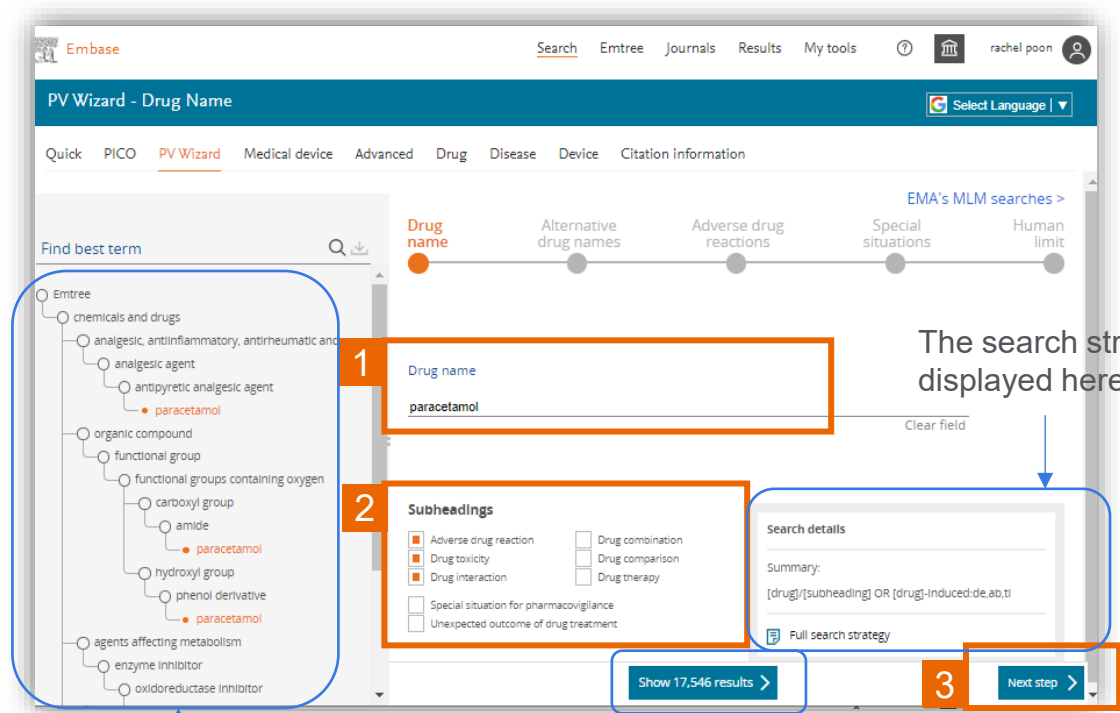


Live Demo

# Searching using PV Wizard - 1. Search drug name

## Step 1

1. Type in the drug name (choose from suggested Emtree list)
2. Select the subheadings that interest you. The first few are defaulted.
3. Click '*Next step*'



The screenshot shows the Embase PV Wizard interface. The search bar contains 'paracetamol'. The Emtree hierarchy on the left is expanded to 'paracetamol'. The search details show the query: [drug]/[subheading] OR [drug]-induced.de.ab.ti. The results section shows 'Show 17,546 results >' and a 'Next step >' button.

Emtree hierarchy for reference

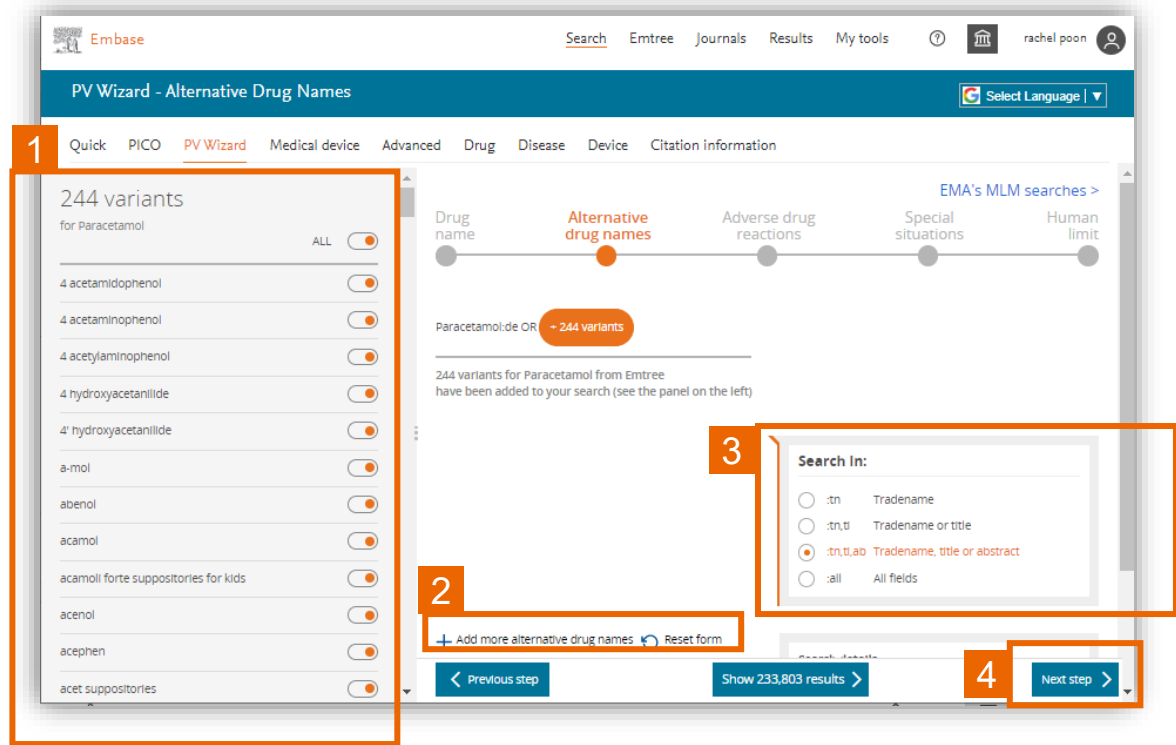
Number of results calculated based on query

The search strategy is displayed here

# PV Wizard – 2. Add alternative drug names

## Step 2

1. Edit the variants as you wish
2. Add more alternative drugs if needed.
3. Choose where in the article you want to search this drug name.
4. Go 'next step'



The screenshot shows the Embase PV Wizard interface for 'Alternative Drug Names'. The page title is 'PV Wizard - Alternative Drug Names'. The breadcrumb trail includes 'Quick', 'PICO', 'PV Wizard', 'Medical device', 'Advanced', 'Drug', 'Disease', 'Device', and 'Citation information'. The 'PV Wizard' tab is active.

On the left, a list of 244 variants for Paracetamol is displayed, with toggle switches for each. The list includes: 4 acetamidophenol, 4 acetaminophenol, 4 acetylamino phenol, 4 hydroxyacetanilide, 4' hydroxyacetanilide, a-mol, abenol, acamol, acamol forte suppositories for kids, acenol, acephen, and acet suppositories. A '1' in an orange box highlights this list.

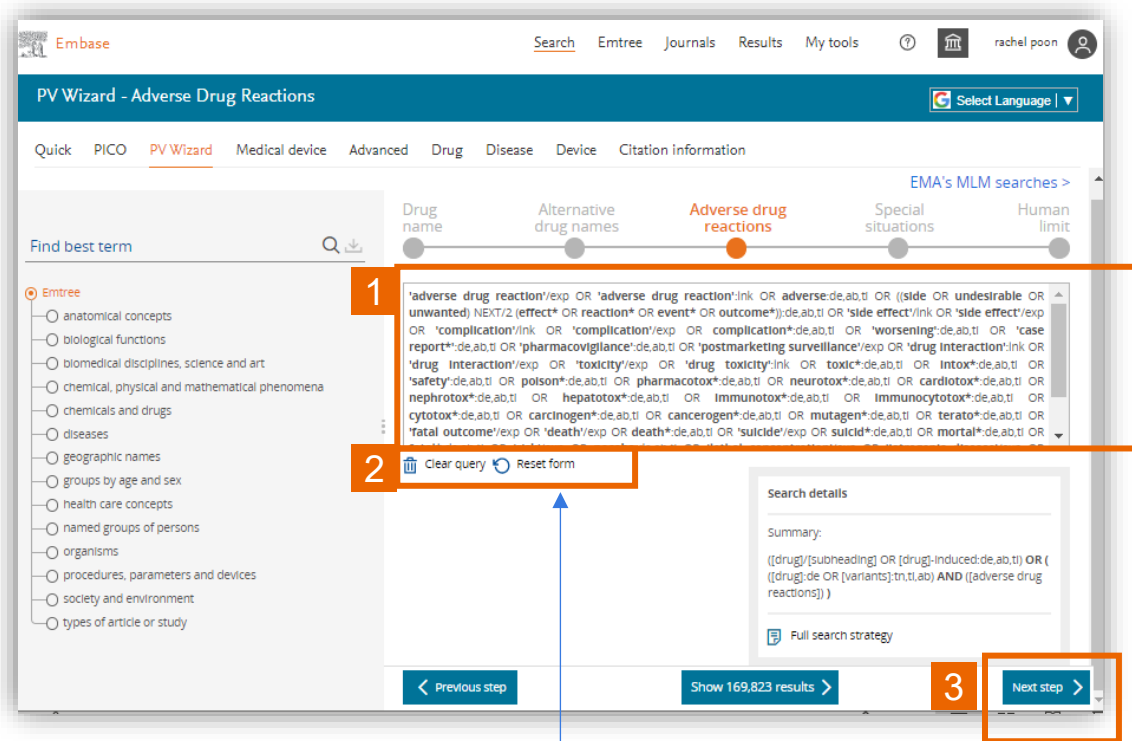
In the center, a progress bar shows the current step: 'Alternative drug names'. Below it, a search filter dropdown is open, showing options: ':tn Tradename', ':tn,t Tradename or title', ':tn,t,ab Tradename, title or abstract' (selected), and ':all All fields'. A '3' in an orange box highlights this dropdown.

At the bottom, there is a button '+ Add more alternative drug names' and a 'Reset form' button. A '2' in an orange box highlights the '+ Add more alternative drug names' button. Below that, there are navigation buttons: '< Previous step', 'Show 233,803 results >', and 'Next step >'. A '4' in an orange box highlights the 'Next step >' button.

# PV Wizard – 3. Intersect adverse drug reactions

## Step 3

1. The search strategy is pre-coded.
2. You can tailor the strategy by simply clicking on the text and edit. Or you can click *clear query* and set your own strategy.
3. Go *'next step'*



Embase Search Emtree Journals Results My tools rachel.poon

PV Wizard - Adverse Drug Reactions Select Language

Quick PICO PV Wizard Medical device Advanced Drug Disease Device Citation information

EMA's MLM searches >

Drug name Alternative drug names Adverse drug reactions Special situations Human limit

Find best term

1 'adverse drug reaction'/exp OR 'adverse drug reaction':link OR adverse:de,ab,ti OR ((side OR undesirable OR unwanted) NEXT/2 (effect\* OR reaction\* OR event\* OR outcome\*)):de,ab,ti OR 'side effect'/link OR 'side effect':exp OR 'complication'/link OR 'complication':exp OR 'complication\*':de,ab,ti OR 'worsening':de,ab,ti OR 'case report\*':de,ab,ti OR 'pharmacovigilance':de,ab,ti OR 'postmarketing surveillance':exp OR 'drug interaction':link OR 'drug interaction':exp OR 'toxicity'/exp OR 'drug toxicity':link OR toxic\*:de,ab,ti OR Intox\*:de,ab,ti OR 'safety':de,ab,ti OR poison\*:de,ab,ti OR pharmacotox\*:de,ab,ti OR neurotox\*:de,ab,ti OR cardiotox\*:de,ab,ti OR nephrotox\*:de,ab,ti OR hepatotox\*:de,ab,ti OR immunotox\*:de,ab,ti OR immunocytotox\*:de,ab,ti OR cytotox\*:de,ab,ti OR carcinogen\*:de,ab,ti OR cancerogen\*:de,ab,ti OR mutagen\*:de,ab,ti OR terato\*:de,ab,ti OR 'fatal outcome':exp OR 'death'/exp OR death\*:de,ab,ti OR 'suicide'/exp OR suicid\*:de,ab,ti OR mortal\*:de,ab,ti OR

2 Clear query Reset form

Search details

Summary:

(([drug]/[subheading] OR [drug]-induced:de,ab,ti) OR ([drug]:de OR [variants]:tn,ti,ab) AND ([adverse drug reactions]))

Full search strategy

3

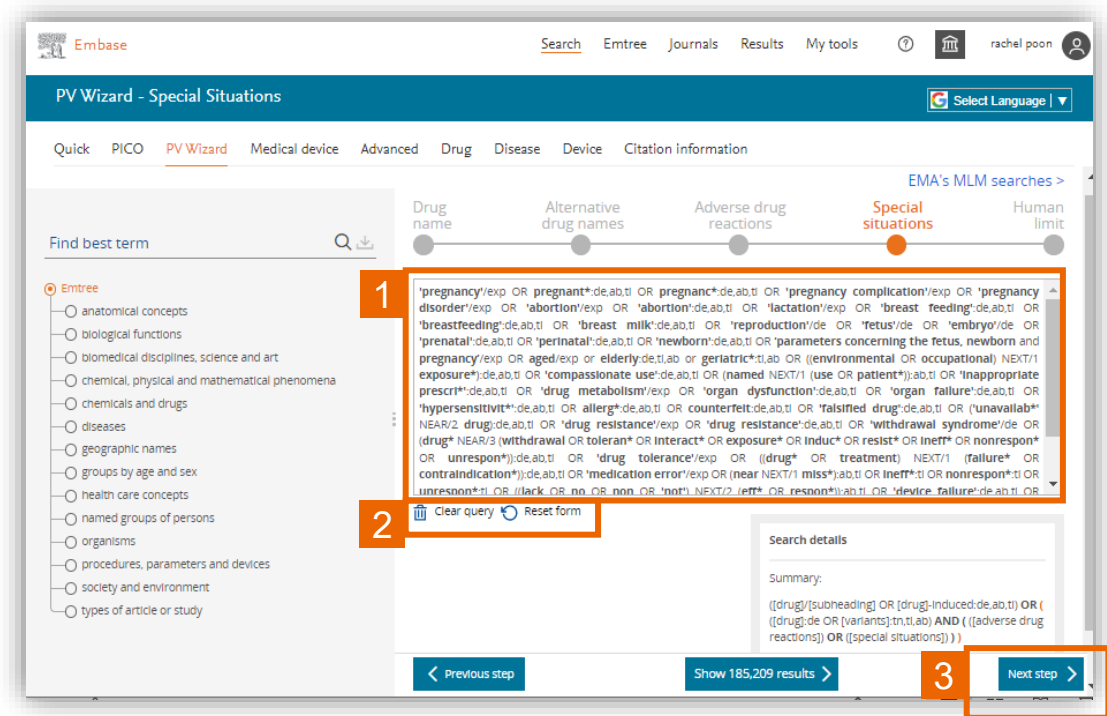
Previous step Show 169,823 results Next step

Tips: You can always click *Reset form* to retrieve the original pre-coded query

# PV Wizard – 4. Add special situations

## Step 4

1. Same as step 3, the special situation is also pre-coded.
2. You can tailor the strategy by simply clicking on the text and edit. Or you can click *clear query* and set your own strategy.
3. Go *next step*



Embase Search Emtree Journals Results My tools rachel poon

PV Wizard - Special Situations Select Language

Quick PICO **PV Wizard** Medical device Advanced Drug Disease Device Citation information

EMA's MLM searches >

Drug name Alternative drug names Adverse drug reactions **Special situations** Human limit

Find best term

Entree

- anatomical concepts
- biological functions
- biomedical disciplines, science and art
- chemical, physical and mathematical phenomena
- chemicals and drugs
- diseases
- geographic names
- groups by age and sex
- health care concepts
- named groups of persons
- organisms
- procedures, parameters and devices
- society and environment
- types of article or study

1 "pregnancy"/exp OR pregnant\*.de.ab.ti OR pregnanc\*.de.ab.ti OR 'pregnancy complication'/exp OR 'pregnancy disorder'/exp OR 'abortion'/exp OR 'abortion'.de.ab.ti OR 'lactation'/exp OR 'breast feeding'.de.ab.ti OR 'breastfeeding'.de.ab.ti OR 'breast milk'.de.ab.ti OR 'reproduction'/de OR 'fetus'/de OR 'embryo'/de OR 'prenatal'.de.ab.ti OR 'perinatal'.de.ab.ti OR 'newborn'.de.ab.ti OR 'parameters concerning the fetus, newborn and pregnancy'/exp OR aged/exp OR elderly:de.ti.ab OR geriatric\*:t.i.ab OR ((environmental OR occupational) NEXT/1 exposure\*:de.ab.ti OR 'compassionate use':de.ab.ti OR (named NEXT/1 (use OR patient\*)):ab.ti OR 'inappropriate prescri\*':de.ab.ti OR 'drug metabolism'/exp OR 'organ dysfunction':de.ab.ti OR 'organ failure':de.ab.ti OR 'hypersensitivit\*':de.ab.ti OR allerg\*.de.ab.ti OR counterfeit:de.ab.ti OR 'falsified drug':de.ab.ti OR ('unavailab\* NEAR/2 drug:de.ab.ti OR 'drug resistance'/exp OR 'drug resistance'.de.ab.ti OR 'withdrawal syndrome'/de OR (drug\* NEAR/3 (withdrawal OR toleran\* OR interact\* OR exposure\* OR induc\* OR resist\* OR ineff\* OR nonrespon\* OR unrespon\*)):de.ab.ti OR 'drug tolerance'/exp OR ((drug\* OR treatment) NEXT/1 (failure\* OR contraindication\*)):de.ab.ti OR 'medication error'/exp OR (near NEXT/1 miss\*):ab.ti OR ineff\*:t.i OR nonrespon\*:t.i OR unrespon\*:t.i OR //lack OR no OR non OR 'not'.NEXT/2 .eff\* OR .respon\*):ab.ti OR '.device .failure':de.ab.ti OR

2 Clear query Reset form

Search details

Summary:

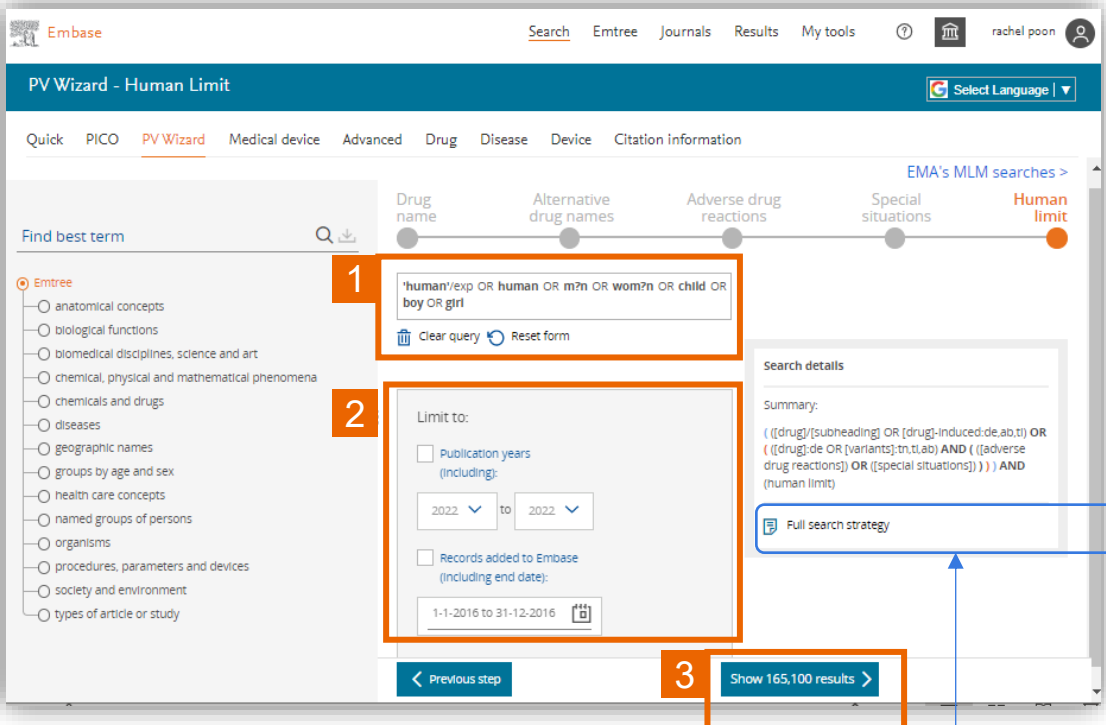
((drug/[subheading] OR [drug-induced:de.ab.ti] OR ([drug]:de OR [variants:tn.ti.ab] AND ( ([adverse drug reactions]) OR ([special situations]))

Previous step Show 185,209 results Next step

# PV Wizard – 5. Add human limits

## Step 5

1. Same as step 3 and 4, this part is also pre-coded, and you can edit and reset as wish.
2. Filter the search results with publication details or date
3. Go *'show results'*



The screenshot shows the Embase PV Wizard interface for Step 5: Add human limits. The breadcrumb trail includes: Quick, PICO, PV Wizard, Medical device, Advanced, Drug, Disease, Device, Citation information, and Human limit. The search bar contains the query: 'human'/exp OR human OR m?n OR wom?n OR child OR boy OR girl. The search results summary shows: Summary: (([drug]/[subheading] OR [drug]-induced.de.ab.tt) OR (([drug].de OR [variants].tn.tl.ab) AND (([adverse drug reactions] OR ([special situations] ) ) ) ) AND (human limits). The interface also includes a 'Full search strategy' button and a 'Show 165,100 results' button.

Tips: Review the full search strategy before you proceed to final results

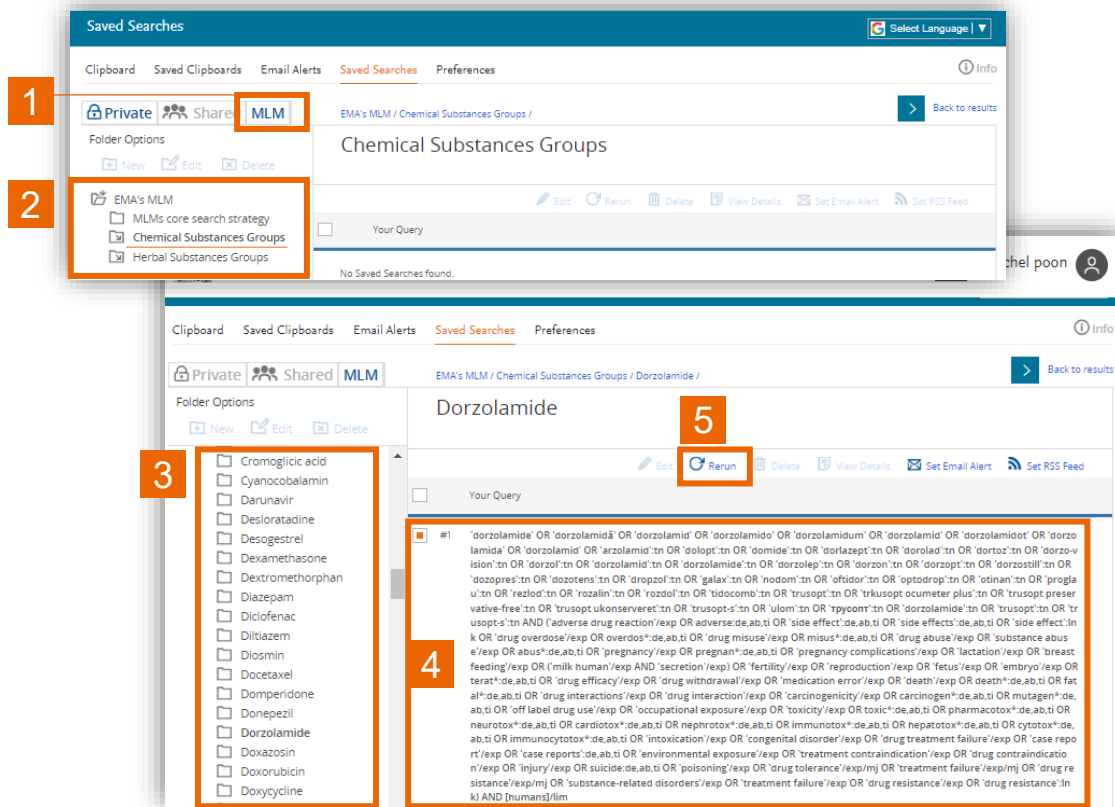
# How to optimize search strategy

*Note: the pre-coded search strategies in step 3,4,5 were optimized to achieve **100% recall rate of the drug.***

1. Review search terms to increase recall
2. Review search terms to increase precision
3. Once the string is defined, review PV search strategy **regularly**, due to
  - 1) Emtree updates three times per year
  - 2) New search artefacts can be introduced
  - 3) New indexing policies can be enforced: e.g. new drug subheadings in the future

# How to run MLM search on chemical/herbal substance

1. Under MLM
2. Select the subgroup
3. Then select the interested substance of chemical/herbal
4. The full search query
5. Click 'Rerun' to run the search on Embase



The screenshot displays the Embase 'Saved Searches' interface. The top navigation bar includes 'Clipboard', 'Saved Clipboards', 'Email Alerts', 'Saved Searches', and 'Preferences'. The 'Saved Searches' section shows a folder named 'EMA's MLM / Chemical Substances Groups' with a subfolder 'Chemical Substances Groups' selected. The search results for 'Dorzolamide' are shown, with a full search query displayed in the first result. The 'Rerun' button is highlighted.

1. Under MLM

2. Select the subgroup

3. Then select the interested substance of chemical/herbal

4. The full search query

5. Click 'Rerun' to run the search on Embase

# 검색범위 설정



Embase mapping 옵션	설명
Map to preferred term in Emtree	우선어와 동의어가 자동으로 인식되어 동시 검색 예) 'myocardial infarction', 'heart attack'은 'heart infarction'로 매핑 검색 ※ 해당 mapping을 지정하지 않을 경우, 입력한 용어 그대로 'all fields'에서 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.

# 자주 이용하는 Embase 검색 필드 기호

Most commonly used *field* codes

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

<input type="radio"/>	/mj	Major focus
<input type="radio"/>	/de	Index term
<input checked="" type="radio"/>	<b>/exp</b>	<b>Explosion</b>
<input type="radio"/>	/br	As broad as possible

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

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

# 검색결과 관리

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

<input checked="" type="checkbox"/> #4	'lymphatic leukemia'/exp	166,112
<input type="checkbox"/> #3	'lymphatic leukemia'/exp	166,112
<input type="checkbox"/> #2	('diabetes mellitus'/exp OR 'diabetes mellitus') AND	11,429
<input type="checkbox"/> #1	'cancer gene therapy'/exp OR 'cancer gene therapy'	15,954

선택된 검색식의 저장, 삭제,  
파일 반출, 공유 등

166,112 results for search #4 Set email alert | Set RSS feed | Search details | Index miner

Results View | Export | Email | Add to Temporary list 1 — 100 >

선택된 검색 결과의 데이터  
반출, 공유, Temporary list  
저장, alert 설정 등

Select number of items  Export record(s) Show all abstracts | Sort by:  Relevance  Author  Publication Year  Entry Date

Select number of items

- 100
- 500
- 5,000
- 1 - 10,000
- 10,001 - 20,000
- 20,001 - 30,000
- 30,001 - 40,000
- 40,001 - 50,000
- 50,001 - 60,000

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

Content: RIS format (Mendeley, EndNote)

Citation In: RefWorks Direct Export

- Title CSV
- Source Plain Text
- First page XML
- AiP/Pe MS Word
- Bibliography MS Excel
- Author PDF
- ISBN PDF
- Embase identification number (PUI)

3 Reducing p  
Zhang Q. Hu Y

sinusoidal obstruction syndrome in children, adolescents, and young adults after hematopoietic stem cell transplantation Similar records >

clinical implications Similar records >

modal artificial intelligence technology

# 검색결과 관리 My tools



Embase

Search Emtree Journals Results **My tools**   

2

1

## Saved searches

3

Temporary list Saved lists Email alerts **Saved searches** Preferences

## Saved searches

Private Shared MLM

+ Create Edit Delete

 혜진기

Private > 혜진기

### 혜진기

Select all  Rerun query  Delete

Filter by name ▾

	Query	Name	Last results	Last updated	Created
<input type="checkbox"/>	#1 'cancer gene therapy/exp OR 'cancer gene therapy' OR (((treatment OR therapy) NEAR/5 fluorouracil):ab)	cancer	15,954	2024-04-15	2024-04-15

Display: 25 results per page

⏪ < Previous Page 1 of 1 Next > ⏩

# Query Translator



PubMed의 검색식을 Embase에 맞게 자동 변환하여 빠르게 재 검색 지원

1

Quick PICO PV Wizard Medical device Advanced Drug Disease Device Citation information Query translator

## Translate PubMed syntax to Embase

2

### 1. Add PubMed query

PubMed query e.g. aspirin[MeSH]

("covid 19"[All Fields] OR "covid 19"[MeSH Terms] OR "covid 19 vaccines"[All Fields] OR "covid 19 vaccines"[MeSH Terms] OR "covid 19 serotherapy"[All Fields] OR "covid 19 nucleic acid testing"[All Fields] OR "covid 19 nucleic acid testing"[MeSH Terms] OR "covid 19 serological testing"[All Fields] OR "covid 19 serological testing"[MeSH Terms] OR "covid 19 testing"[All Fields] OR "covid 19 testing"[MeSH Terms] OR "sars cov 2"[All Fields] OR "sars cov 2"[MeSH Terms] OR "severe acute respiratory syndrome coronavirus 2"[All Fields] OR "ncov"[All Fields] OR "2019 ncov"[All Fields] OR (("coronavirus"[MeSH Terms] OR "coronavirus"[All Fields] OR "cov"[All Fields])) AND ("predict\*[Title/Abstract] OR "predictive value of tests"[MeSH Terms] OR "score"[Title/Abstract] OR "scores"[Title/Abstract] OR "scoring system"[Title/Abstract] OR "scoring systems"[Title/Abstract] OR "observ\*[Title/Abstract] OR "observer variation"[MeSH Terms])

Translate

3

Reset form

### 2. Review Embase translation

('covid 19' OR 'coronavirus disease 2019'/exp OR 'covid 19 vaccines' OR 'SARS-CoV-2 vaccine'/exp OR 'covid 19 serotherapy' OR 'covid 19 nucleic acid testing' OR 'COVID-19 nucleic acid testing'/exp OR 'covid 19 serological testing' OR 'COVID-19 serological testing'/exp OR 'covid 19 testing' OR 'COVID-19 testing'/exp OR 'sars cov 2' OR 'Severe acute respiratory syndrome coronavirus 2'/exp OR 'severe acute respiratory syndrome coronavirus 2' OR 'ncov' OR '2019 ncov' OR ( ('Coronavirinae'/exp OR 'coronavirus' OR 'cov' ) ) AND ( 'predict\*:ti,ab,kw OR 'predictive value'/exp OR 'score':ti,ab,kw OR 'scores':ti,ab,kw OR 'scoring system':ti,ab,kw OR 'scoring systems':ti,ab,kw OR 'observ\*:ti,ab,kw OR 'observer variation'/exp )

4

Show 147,612 results

Take to Advanced search

Copy query

## Welcome to the translation tool!

Get started with example queries: [Covid-19](#) > [Meta-Analysis](#) >

Type or paste a PubMed query and then review the Embase translation. Different highlighting will be applied depending on the mapping between MeSH to Emtree and based on the impact on the query. Those are:

'cervical vertebra'/exp means that Embase found **exact match** in Emtree and field code.

'meta analysis (topic)'/exp means that there is **no exact match** in Emtree and it used preferred term.

5

'cad inhibitor'/exp means that there is **no translation** for the term or field code.

검색엔진이 달라  
직접 변환되지  
않는 키워드  
표시

In case of Emtree terms not found, it will be searched in All fields, unless you select another term from Emtree manually.

In case of free text, field code will be converted to All fields.



# Appendix

검색 팁

# 통제어 및 검색방법 비교



	Emtree (Embase)	Mesh (Medline)
동의어 (Entry terms)	510,000	270,000
우선어	98,000	29,917
업데이트 주기	연 3회	연 1회

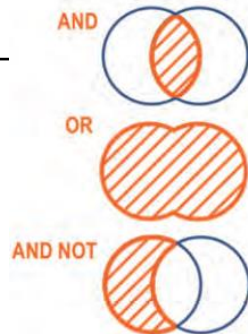
검색방법 비교		
	Embase	PubMed
연산자	Boolean 연산자 AND, OR, NOT	
절단검색	*	
어구검색	‘ ‘	“ “
인접검색	NEAR, NEXT	없음

# Search Tip 1 : 불리언 연산자와 인접 검색

## Boolean Operator (불리언 연산자)

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

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



## 인접 검색

<b>NEAR/n</b>	drug* NEAR/2 adverse	n 개의 단어 내에 있어야 합니다
<b>NEXT/n</b>	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/1

0 (treatment OR disease)

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

event\* OR outcome\*)

# Search Tip 2 : 구문 검색 및 절단자



## 구문검색

<p>'heart attack' heart-attack</p>	<p>※ 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.</p>
<p>예) 'heart infarction' AND clinical NEXT/2 (trial OR study)</p>	

## 절단자

<p>* 하나 이상의 문자를 대체</p>	<p>sul*ur</p>	<p>결과: sulfur, sulphur</p>
	<p>'heart attack*'</p>	<p>결과 heart attack, heart attacks</p>
<p>? 단일 문자 절단</p>	<p>sulf?nyl</p>	<p>결과 'sulfonyl' and 'sulfinyl' 와 같은 단어 포함</p>
	<p>catheter?</p>	<p>결과 'catheters' 검색 'catheter' or 'catheterization' 검색 안됨</p>
<p><b>Note:</b></p> <ol style="list-style-type: none"> <li>① *로 절단하기 전에 적어도 세 개의 문자를 입력</li> <li>② Wildcard + field 조합: 예) sul*ur:ti:ab</li> <li>③ ? + field 조합은 지원하지 않음 (예: sulf?nyl:ab:ti)</li> <li>④ 구문 내에서 절단 문자 (와일드 카드)를 사용: "heart infarct*" or "metabol* disorder"</li> <li>⑤ Wildcard * 2 단어 미만이 문자로 사용할 수 없음: 예) "m* disorder" or "metabol* d*"</li> </ol>		

# 제품 이용 자료 다운로드 링크 안내

**Embase**  
이용가이드 모음



**EmbaseAI**  
Frequently  
Asked Questions

