



# PICO 이용자 가이드

2022 release



# ‘PICO search’ 기능 소개

- 이 검색 기능은 PICO 검색 (Patient, Intervention, Comparison/Control and Outcome)의 4 요소로 임상 질문을 명확하게 분리하여 증거 기반 접근 (evidence-based approach) 방식으로 문헌 검색을 할 수 있도록 지원하는 툴입니다.
- 새로운 PICO 검색 폼은 아래와 같이 편리한 one-step 검색기능을 통한 간편하고 빠른 통합검색 프로세스 입니다.
- 연산자 (Boolean Operators) 각각 OR 및 AND를 사용하여 각 PICO 요소 내 (within)와 각 요소들 사이 (between)에서 검색어를 자동 조합하여 통합 검색결과 표시
- 검색 양식 내에서 Emtree 시소러스를 검색을 통해 정확하고 간편하게 검색어 입력 가능
- 선택적으로 검색 폼에서 바로 동의어를 선택하여 추가 가능
- 필드 코드를 설명하는 용어와 드롭 다운 메뉴를 통해 쉽게 자동 완성

Build your search using the PICO framework

Default strategy: /exp

Population e.g. diabetes  
non insulin dependent diabetes mellitus /exp NOT

Intervention e.g. insulin

Comparison e.g. placebo

Outcome e.g. risk

Study design e.g. randomized controlled trial

Search terms in 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

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Study design e.g. randomized controlled trial

Search terms in Emtree

- drug therapy  
3,341,813 records found
- drug therapy, combination  
Synonym for 'combination drug therapy'  
203,003 records found
- drug therapy failure  
Synonym for 'lack of drug effect'  
31,129 records found
- drug therapy management  
Synonym for 'medication therapy management'  
13,602 records found

- antiangiogenic therapy
- antibiotic prophylaxis
- anticoagulant therapy
- anticonvulsant therapy
- antifibrotic therapy
- antihypertensive therapy
- bedtime dosage
- bone marrow suppression

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- anticoagulant therapy
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- antihypertensive therapy
- bedtime dosage
- bone marrow suppression

Explosion /exp  
Searches your term (or maps to the preferred Emtree term) and related narrower or children terms

Major focus /mj	165,402
Index term /de	307,136
Explosion and Major focus /exp/mj	165,402
Explosion /exp	306,378
As broad as possible /br	308,593

+ Add synonyms Remove term

Show 0 results

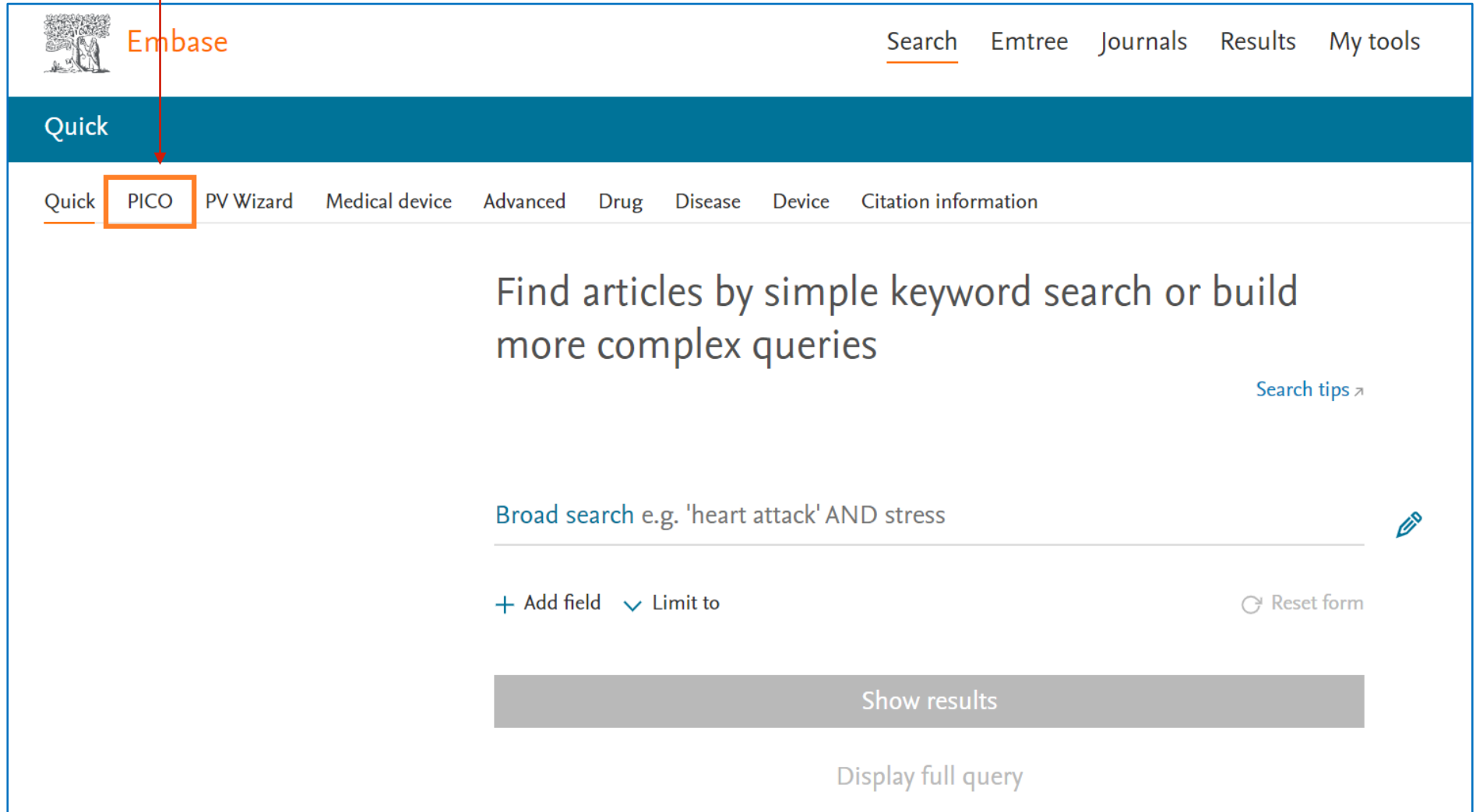


**Figure 1:** 새로운 PICO 검색어 프레임 워크를 사용하여 Emtree 용어에서 검색어를 검색 입력하고, 바로 동의어를 추가하여 검색어 (query) 입력이 용이합니다.

**Figure 2.** Emtree용어의 동의어가 바로 원 클릭으로 추가가 가능하며, 검색어를 입력하는 시간을 현저히 단축하고 간편화 하였습니다.

# PICO search form

① Search 메뉴에서 PICO를 선택합니다.



The screenshot displays the Embase search interface. At the top, the Embase logo is on the left, and navigation links for Search, Emtree, Journals, Results, and My tools are on the right. Below the navigation bar is a dark blue header with the word "Quick". Underneath this header is a horizontal menu with options: Quick, PICO, PV Wizard, Medical device, Advanced, Drug, Disease, Device, and Citation information. The "PICO" option is highlighted with an orange box. A red arrow points from the Korean text above to this "PICO" option. The main content area features the text "Find articles by simple keyword search or build more complex queries" and a link for "Search tips". Below this is a search input field containing the text "Broad search e.g. 'heart attack' AND stress". To the right of the input field is a pencil icon. Under the input field are two buttons: "+ Add field" and "v Limit to". To the right of these buttons is a "Reset form" link. At the bottom of the form is a large grey button labeled "Show results" and a link labeled "Display full query".

Embase

[Search](#) [Emtree](#) [Journals](#) [Results](#) [My tools](#)

Quick

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

Find articles by simple keyword search or build more complex queries

[Search tips ↗](#)

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

+ Add field v Limit to


[Reset form](#)

Show results

[Display full query](#)









# PICO search form: 검색어 입력 창 활용하기

- ② 키워드를 입력하고 제안 된 목록에서 적합한 용어를 선택합니다.

Default strategy: /exp 

Population e.g. diabetes

corona virus

	corona virus use: Coronavirinae	99,722	
	corona-virus anxiety scale use: coronavirus anxiety scale	57	
	corona virus vaccine This is a candidate term	24	
	Use corona virus as a free term		

Outcome e.g. risk

Study design e.g. randomized controlled trial

# 검색 범위 지정

- 전체페이지에 적용
- 기능표시 아래 팝업 참고

Default search strategy



Default strategy: /exp ^

Population e.g. diabetes



Explosion /exp

Searches your term (or maps to the preferred Emtree term) and related narrower or children terms

Major focus /mj

Index term /de

Explosion and Major focus /exp/mj

Explosion /exp

As broad as possible /br



ELSEVIER

# PICO search form: 검색 옵션 설정






④ 입력된 검색용어는 기본값으로 'exp'로 검색이 됩니다. 다른 검색 옵션은 해당 용어 오른쪽 꺾쇠 화살표를 클릭하여 목록에서 다른 검색 옵션을 클릭합니다.


- 'index term',
- 'major focus
- 'explosion search'
- 'broad as possible'

Default strategy: /exp ▾

Population e.g. diabetes

corona virus :all ▾ OR ▾ diabetes mellitus /exp ▴ Add 3 synonyms

 Explosion /exp	×	
Searches your term (or maps to the preferred Emtree term) and related narrower or children terms		
Major focus /mj	256,195	
Index term /de	679,966	
Explosion and Major focus /exp/mj	598,656	
<u>Explosion /exp</u>	1,180,183	
As broad as possible /br	1,223,256	
<a href="#">+ Add synonyms</a> <a href="#">Remove term</a>		

 Reset form

- physical disease
  - physical disease by body function
    - metabolic disorder
      - disorders of carbohydrate metabolism
        - diabetes mellitus**
          - diabetic complication
          - diabetic obesity
          - experimental diabetes mellitus
          - impaired glucose tolerance
          - insulin dependent diabetes m...
          - lipotrophic diabetes mellitus
          - maternally inherited diabetes ...
          - newborn diabetes mellitus
          - non insulin dependent diabet...
          - pregnancy diabetes mellitus
          - Wolfram syndrome
- physical disease by anatomical structure

# PICO search form: 동의어 설정

⑤ Emtree 용어를 추가한 뒤, 해당 용어 오른쪽에 표시되어 있는 synonyms를 클릭합니다. 모든 동의어가 표시되며, 개별 동의어를 패널에서 버튼을 클릭하여 선택 추가 혹은 제외할 수 있습니다.

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

The screenshot displays the PICO search form interface. At the top, there is a navigation bar with tabs: Quick, PICO (selected), PV Wizard, Medical device, Advanced, Drug, Disease, Device, and Citation information. The main heading is "Build your search using the PICO framework". Below this, the "Default strategy" is set to "/exp". The "Population" section is active, showing "e.g. diabetes". The search criteria are displayed as: "corona virus :all" (with a dropdown arrow), "OR" (with a dropdown arrow), "diabetes mellitus /exp" (with a dropdown arrow), and "3 synonyms :all" (with a dropdown arrow). To the right of the search criteria, there is a "Search tips" link. Below the search criteria, there are sections for "Intervention e.g. insulin" and "Comparison e.g. placebo", each with a trash icon. On the far right, a panel titled "3 synonyms for diabetes mellitus" is visible, containing a "Select all synonyms" checkbox and a list of synonyms: "diabetes", "diabetes mellitus", and "diabetic", each with a checkbox.

## PICO search form: 검색 필드 설정

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

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

The screenshot displays the PICO search form with the following components:

- Population:** corona virus :all, OR, diabetes mellitus /exp, 3 synonyms :all
- Intervention:** non insulin dependent diabetes mellitus (selected)
- Comparison:** placebo
- Outcome:** risk
- Study design:** randomised controlled trial
- Limit to:** (dropdown menu)

A modal window is open for the selected intervention term, showing the following options:

- All fields :all (selected)
- Search term in all fields of record
- Drug trade name or Device trade name :tn,dn
- Drug trade name :tn
- Device trade name :dn
- Title :ti
- Abstract :ab
- Author keywords :kw
- Title or Abstract :ti,ab
- Title, Abstract or Author keywords :ti,ab,kw
- Title, Abstract or Trade names :ti,ab,tn,dn
- All fields :all

Buttons for 'Reset form' and 'Limit to' are visible.



# PICO search form: 검색 결과 #의 표시

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

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

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

Population e.g. diabetes

corona virus :all  OR  diabetes mellitus /exp  3 synonyms :all

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Intervention e.g. insulin

drug therapy /exp  |

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Comparison e.g. placebo

lifestyle modification /exp

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Outcome e.g. risk

---

Study design e.g. randomized controlled trial

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Limit to

Show 4,612 results

Thank you

