



Searching in Embase (Ovid)

Embase is a biomedical and pharmacological database that contains articles from more than 8,500 journals. Embase is searched using a combination of subject headings (called **EMTREE subject headings**) and keywords.

Embase searches are conducted line-by-line, with each concept searched separately and then combined with Boolean operators (AND and OR).

The following searches aim to find an article comparing two drugs, tacrolimus and cyclosporine, to see which is the most effective in preventing graft rejection in kidney transplant patients. These terms should be searched separately to ensure you get the more relevant results.

1. Type your first keyword into the search box. Make sure the **'Map Term to Subject Heading'** box is checked. This will tell the database to automatically search for a matching EMTREE term to use.

The screenshot shows the Embase search interface. At the top, there are navigation tabs: **Advanced Search**, Basic Search, Find Citation, Search Tools, Search Fields, and Multi-Field Search. Below the tabs, it indicates "2 resources selected" and provides options to "Hide" or "Change" the selection. There are two filters: "Embase Classic 1947 to 1973" and "Embase 1974 to 2023 July 10". Search options include "Keyword" (selected), Author, Title, and Journal. A search box contains the text "kidney transplantation" and a blue "Search" button is to its right. Below the search box, there are checkboxes for "Include Multimedia" (unchecked) and "Map Term to Subject Heading" (checked). A "Limits" section is expanded, showing various filters: Full Text, Human, No Language Specified, COVID-19, Latest Update, Cochrane Library, Remove MEDLINE Records, Abstracts, English Language, and Remove Preprint Records. There are also dropdown menus for "Publication Year", "Embase Status", and "NLM Status". At the bottom of the limits section are "Additional Limits" and "Edit Limits" buttons.

2. The next page contains a list of subject headings. In the example below, 'kidney transplantation' is the subject heading and kidney 'transplantation.mp' is the keyword.

Your term mapped to the following Subject Headings:

Click on a subject heading to view more general and more specific terms within the thesaurus.

Term is a thesaurus term

Include All Subheadings

Combine with:

OR

[Continue](#)

Select	Subject Heading	Explode	Focus	Scope
<input checked="" type="checkbox"/>	kidney transplantation	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	kidney transplantation.mp. search as Keyword			

3. Before selecting a subject heading, click the 'Scope' icon (). This will give you the definition of the term to ensure you're using it correctly.

- Click on the subject heading to see where it falls in the hierarchy. This will show you if there's a more specific term you could be using instead.
- The screenshot below is the hierarchy for the subject heading 'kidney transplantation'. If Embase does not recommend any relevant subject headings, don't select any or select the keyword instead.

<input checked="" type="checkbox"/>	kidney transplantation	136478
	[Used For]	
	kidney allograft transplantation	
	kidney allotransplantation	
	kidney cadaver transplantation	
	kidney grafting	
	kidney homotransplantation	
	kidney retransplantation	
	renal homotransplantation	
	renal transplantation	
	second set kidney transplantation	
	transplantation, kidney	
	[Broader Terms]	
<input type="checkbox"/>	kidney surgery	4760
<input type="checkbox"/>	organ transplantation	41947
	[Narrower Terms]	
<input type="checkbox"/>	cadaver kidney	3990
<input type="checkbox"/>	kidney allograft	15584
<input type="checkbox"/>	kidney autotransplantation	872
<input type="checkbox"/>	kidney graft	56952
<input type="checkbox"/>	kidney pancreas transplantation	2713

- Click 'Continue' to move to the next step. This will show the 'subheadings' assigned to the subject heading you have selected. While some articles are assigned specific subheadings, it's best to include all of them to ensure you don't exclude any potentially relevant results.. To do this, click '**Include All Subheadings**'.

Subheadings for: **kidney transplantation**

Combine with:

Include All Subheadings (136478)
or choose one or more of these subheadings

/ae - Adverse Drug Reaction (1850)
 /ep - Epidemiology (2)
 /su - Surgery (2)

/co - Complication (1)
 /rh - Rehabilitation (66)
 /th - Therapy (1)

The subject heading will now be added to your search history.

Search History (1) View Saved

#	Searches	Results	Type	Actions	Annotations
1	kidney transplantation/	136478	Advanced	Display Results More	

Combine with:

Now, we'll search for our concept as a keyword.

- In this search, we'll add an asterisk (*) to the end of the term. This is a truncator, and will find alternate endings (e.g. transplants, transplantation). Instead of selecting the subject heading, click the box next to kidney transplant*.mp. search as Keyword and click 'Continue'

Select	Subject Heading	Explode	Focus	Scope
<input type="checkbox"/>	kidney graft	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	human	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	kidney transplantation	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	adult	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	female	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	male	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	controlled study	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	graft recipient	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	cyclosporin A	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	transplantation	<input type="checkbox"/>	<input type="checkbox"/>	⊙
<input type="checkbox"/>	kidney transplant*.mp. search as Keyword			

- Search for all possible synonyms for each concept, then check the boxes next to them.

Search History (6) ^						View Saved
<input type="checkbox"/>	# ▲	Searches	Results	Type	Actions	Annotations
<input type="checkbox"/>	1	kidney transplantation/	136478	Advanced	Display Results More ▾	🗨
<input type="checkbox"/>	2	kidney transplant*.mp.	171612	Advanced	Display Results More ▾	🗨
<input type="checkbox"/>	3	kidney graft/	56952	Advanced	Display Results More ▾	🗨
<input type="checkbox"/>	4	kidney graft*.mp.	74766	Advanced	Display Results More ▾	🗨
<input type="checkbox"/>	5	renal transplant*.mp.	77276	Advanced	Display Results More ▾	🗨
<input type="checkbox"/>	6	renal graft*.mp.	7653	Advanced	Display Results More ▾	🗨

Combine with:

- Click OR to search for all the terms at once. This will create the following line:

<input type="checkbox"/>	7	1 or 2 or 3 or 4 or 5 or 6	196875
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- Repeat this process for all of your search concepts, then combine each OR line with AND. Below is the completed search history for this question. Lines 7, 10, 15, and 18 are combinations of each concept. Line 19 searches these combinations to find all articles that include a search term from each concept.

<input type="checkbox"/>	1	kidney transplantation/	136478
<input type="checkbox"/>	2	kidney transplant*.mp.	171612
<input type="checkbox"/>	3	kidney graft/	56952
<input type="checkbox"/>	4	kidney graft*.mp.	74766
<input type="checkbox"/>	5	renal transplant*.mp.	77276
<input type="checkbox"/>	6	renal graft*.mp.	7653
<input type="checkbox"/>	7	1 or 2 or 3 or 4 or 5 or 6	196875
<input type="checkbox"/>	8	tacrolimus/	98259
<input type="checkbox"/>	9	tacrolimus.mp.	100689

<input type="checkbox"/>	10	∨ fk 506.mp.	13907
<input type="checkbox"/>	11	∨ 8 or 9 or 10	103719
<input type="checkbox"/>	12	∨ cyclosporine.mp.	72640
<input type="checkbox"/>	13	∨ ciclosporin.mp.	4266
<input type="checkbox"/>	14	∨ cyclosporine/	30803
<input type="checkbox"/>	15	∨ 12 or 13 or 14	75649
<input type="checkbox"/>	16	∨ kidney graft rejection/	17544
<input type="checkbox"/>	17	∨ reject*.mp.	250287
<input type="checkbox"/>	18	∨ 16 or 17	250287
<input type="checkbox"/>	19	∨ 7 and 11 and 15 and 18	3815

Advanced search syntax

The table below contains the advanced search syntax that can be incorporated into a Embase search to improve its accuracy and increase the number of results.

Note: in this table, *n* stands for a number, not the letter n. To use these operators, replace the *n* with the number of letters or numbers you'd like in between terms.

Syntax	Symbol	Example	Function
Truncation	*	depress*	Finds 'alternate endings' to a word
Mandated wildcard	#	wom#n	Replaces 1 letter
Optional wildcard	?	p?ediatric	Replaces 0-1 letters
Nesting	(...)	behavio?r AND (depression OR anxiety)	Group similar terms in a search
Proximity	adjn	disturb* adj3 sleep	Find a word within a specified number of words (in any order)
Nested proximity	(a or b) adjn (c or d)	(breast OR skin) adj3 (cancer* OR neoplasm* OR tumo?* OR malignan*)	Find terms combined with OR within a specified number of words from another group of words combined with OR