

Embase生物醫學資料庫 特色介紹與搜尋實作示範

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2.15.2022





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- 最完整、即時的生物醫學為摘資料庫



Embase額外收錄3,100冊獨特

關注每年~1,100場國際研討會

的高影響期刊(歐洲、亞洲)

收錄近年熱門的科學預印本

(Preprints),接受第一手的

bio $R_{\chi iv}$ med $R_{\chi iv}$

的摘要報告

醫學研究訊息

醫學領域仰賴美國醫學圖書館 收錄名MEDLINE為核心收藏 關注~5200冊國際期刊

NIH National Library of Medicine

PubMed做為免費的搜尋平台 提供部分免費文章而受到歡迎

Pub Med.gov

Embase滿足以下使用需求

生物醫學研究人員

- 了解預印本、國際研討會的最新研究趨勢。
- 利用郵件提醒功能,被動接收最新上線的文章。
- 探索疾病的新治療策略,尋求文獻提供科學證據。

系統性回顧與統合性分析研究員

- 更完整的文章收錄範圍。
- 快速篩選臨床試驗、雙盲試驗、Cochrane review等證據力高的文章

醫院實務同仁 Evidence Based Medicine

- PICO 搜尋介面、實證醫學競賽

新藥物、醫療器材等新興治療領域

- 新藥物試驗與副作用報導、藥物經濟學等
- 新醫材與副作用報導、經濟效益比較





Embase如何取得?

- ERMG/VPN等方式
- 在授權IP範圍下,打開Chrome瀏覽器,網址輸入www.embase.com

Embase®	Search	Emtree	Journals	Results	My tools	Register	Login	(1)	?
Quick Search							<mark>G</mark> 請選取	語言 ▼	
Quick PICO PV Wizard Medical device Advanced Drug Disease Device Article Authors						Search tips			
Quick search							Q		
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- ✓ Quick search
 ✓ PICO search
 ✓ PV wizard
- ✓ Medical Device

Quick Search



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24 HTT 1551 -2- 194					•	PICO搜尋方法受Cochrane等國 際組織推薦,清楚定義研究範疇, 增加文獻搜尋的專一性
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Systematic searching in Embase: using PICO to identify relevant results for Evidence-based medicine - YouTube

藥學與藥物領域文獻搜尋介面

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Embase		Search	Emtree Journals Results	; My tools ⑦	Sign in
PV Wizard - Drug Name				G	Select Language ▼
Quick PICO PV Wizard Medical device	Advanced Drug Disease	Device Citation information		EMAIs	
Find best term Q	Drug name	Alternative drug names	Adverse drug reactions	Special situations	Human limit
Emtree O anatomical concepts O biological functions	Drug name				
Elsevier與全世界主要藥廠結 伴,收錄最完整的藥物同義詞 庫同時以Emtree索引,提供藥 物文獻搜尋的首選工具。	e.g. Paracetamol		Clear field	 藥物警戒精調 能提供最完整 內容包含(副 藥物交互作) 	靈只需五個步驟,就 整的藥物文獻搜尋, 作用、藥物毒性、 用、藥物經濟學等專
藥物為醫學主要的治療策略 之一,藥物文獻的搜尋為醫 學養成教育中重要的一環。	Adverse drug reaction	Drug combination	Special situation for pharmacovigilance Unexpected outcome of drug treatment Show 0 results	注領域)	Next step >

Emtree – The authoritative life science thesaurus (elsevier.com)

新興醫療器材搜尋介面

	Sevice name	
 新興醫療器材眾多,廠牌、製 造商名稱複雜難以人工搜尋。 	+ Add device name + Add synonyms	 三個步驟能夠針對醫療器材(不 良反應、臨床試驗、產品比較、 經濟效益)搜尋相關文獻
 Embase與國際組織Global Medical Device Nomenclature (GMDN) 合作將醫療器材整合於 Emtree辭典,整理文獻中關注 的醫療器材方便搜尋。 	+ Add/Edit default adverse effects syntax R Add/Edit default adverse effect syntax + Add device specific adverse effect terms	
AND	Study limit None ~ From To Publication years 2012 ~ Records added to Embase (including end date):	

Elsevier utilizes Global Medical Device Nomenclature to improve clinical evaluation for medical devices



結果頁面導覽

- ✓ Results Filters
- ✓ Search Histories to exclude search results
- ✓ Clickboard
- ✓ Exports

Embase®		Search Emtree Journals <mark>Results</mark> My tools	Register Login 1
Results			
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Study types	\checkmark	F.Y., Lacaine F., Middleton M.R., Ghaneh P., Bassi C., Halloran C., Olah A., Rawcliffe C.L., Büchler M.W. Journal of Clinical Oncology 2011 29:18 SUPPL. 1	
Dublication types		Embase 🗸 Abstract 🗸 Index Terms	🕞 Similar records 🕽

利用Abstract與Index Terms加速了解文章內容

11 Anti-SARS-CoV-2 vaccination strategy for pregnant women in Japan 索引來源

Hayakawa S., Komine-Aizawa S., Takada K., Kimura T., Yamada H. Journal of Obstetrics and Gynaecology Research 2021 Cited by: 5 ∧ Abstract ∨ Index Terms > View Full Text Embase

Similar records >

The current COVID-19 pandemic is a global concern. The recent introduction of vaccines has provided a reason for hope, but new problems, such as vaccine hesitancy, have arisen. One of the most important of these issues is the safety of vaccines for pregnant women. In this article, we collected worldwide indications for vaccination, including women who are pregnant or who wish to become pregnant, and reports of adverse reactions to COVID-19 vaccination. The Japan Society of Obstetrics and Gynecology and the Japanese Society of Infectious Diseases in Obstetrics and Gynecology have published recommendations for the vaccination of pregnant women with a COVID-19 vaccine. The guidelines are as follows: (1) pregnant women should not be excluded from vaccination; (2) informed consent should be obtained before vaccination; (3) healthcare workers and pregnant women with complications such as diabetes, hypertension, and obesity should be vaccinated preferentially; (4) vaccination should be avoided until 12 weeks of gestation during organogenesis; (5) spouse and family members should be vaccinated actively; and (6) nursing mothers are not particularly affected. This policy has been adopted in government guidelines. Additional efforts should be made to protect pregnant women from infection and severe illness with COVID-19 by eliminating vaccine hesitancy.

全文連結

Scopus

外連至引用資料庫

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Drug Terms

SARS-CoV-2 vaccine

Disease Terms

communicable disease⁸%, complication⁸%, **coronavirus disease 2019**⁸%, diabetes mellitus⁸%, hypertension⁸%, obesity⁸%, pandemic⁸%, side effect⁸%

Other Terms

adult¹%, article¹%, controlled study¹%, female¹%, government¹%, gynecology¹%, health care personnel¹%, human¹%, informed consent¹%, male¹%, male¹%, nursing¹%, obstetrics¹%, organogenesis¹%, practice guideline ໍ່ໃຈ, pregnancyໍ່ໃຈ, pregnant womanໍ່ໃຈ, spouseໍ່ໃຈ, vaccine hesitancyໍ່ໃຈ

粗體:Major focus



Emtree與Index

- ✓ 認識Emtree
- ✓ 索引流程
- ✓ Emtree與MeSH比較



- 樹狀結構的生物醫學詞庫 - 包含藥物、疾病、醫療器材與生命科學的概念



Synonyms

angiocardiopathy; angiocardiovascular disease; cardiovascular complication; cardiovascular diseases; cardiovascular disorder; cardiovascular disturbance; cardiovascular lesion; cardiovascular syndrome; cardiovascular vegetative disorder; complication, cardiovascular; disease, cardiovascular; major adverse cardiovascular event

Embase的索引策略

- ✓ Embase內容皆由專業團隊先讀完文章內容,以Emtree詞彙標上重要的概念、資訊。
- ✔ 增加您搜尋的精準度,節省大量時間





Emtree 與 MeSH (Pubmed)比較

ELSEVIER

	Emtree	MeSH			
收錄詞彙數目	> 75,400 (Include all MeSH term)	> 27,800			
收錄同義詞	> 314,000	> 87,000			
藥物相關	32,000 preferred terms, 200,000 synonyms	9,250 preferred terms			
醫療器材相關	3,000 specific terms	Fewer and more general terms			
Subheadings	82, including: 17 drug subheadings 47 routes of drug administration 14 disease subheadings 4 device subheadings	70, including: 23 main subheadings 47 children subheadings			
每篇文章詞彙數	3–4 major terms, and up to 50 minor terms	10–20			
每年更新頻率	3次	1次			
 詞彙數量越多、分類越細,文章深度索引更精準: 1) Embase有最完整的藥物與資療器材詞彙 → (實證醫學、系統性文獻回顧、臨床副作用監控) 2) 更新頻率更高 					

搜尋結果過濾工具-Source



搜尋結果過濾工具-Publication types



兩種"非"期刊類型的資料來源、研究趨勢參考: Conference Abstract - 國際研討會的摘要資訊 Preprint - 科學預印本

搜尋結果過濾工具-Study types ①



Study types篩選文獻實驗類型,針對常見分類說明如下:

major clinical study: 原創性的研究文獻,探討病人數目>50人 clinical article: 原創性的研究文獻,探討病人數目<50人

human experiment: 原創性的研究在人體上的試驗 (例如:生理測試、 藥物動力學試驗) 但受試者並非為病人

Animal experiment: 原創性的研究使用整隻動物 Nonhuman: 使用非人源的各種實驗材料(例如:動物、細菌、病毒或植 物等)

搜尋結果過濾工具-Study types ②



Clinical Trial: 原創性的報導前瞻性的臨床試驗,比較一種或多種醫療介 入方法的效果(包含人與獸醫研究中的動物) Controlled clinical Trial: 同上但試驗中必須包含安慰組、無治療組、標 準介入作為對照組 Phase 1~4 clinical Trial: 原創性的藥物的臨床試驗 Phase 1~4 clinical Trial topic: 討論某原創性的藥物臨床試驗結果 如想進一步了解其他Study types的索引定義,請參考2021年Embase 索引指引 https://www.elsevier.com/___ _data/assets/pdf_file/0010/901693/Embase -Indexing-guide-2021.pdf

搜尋結果過濾工具-Drugs/Diseases/Devices

Results Filters		統計搜尋結果中的:
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History欄位-紀錄搜尋指令與文章數

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History欄位- Combine Searches





Results – 輸出至書目管理工具①



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Results - 輸出至書目管理工具②

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		 L2: DOI/full text link 	• Y1: Publication year	
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Results - 輸出至書目管理工具 ③

 $\leftarrow \rightarrow$ C \triangle embase.com/search/download



Embase®







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My Tools ✓ Clipboard ✓ Exports ✓ Email Alert

結果區塊 - 利用<u>剪貼簿</u>暫存感興趣的文章

102,531 res	sults for search #10 🛛 🔯 Set email alert 🔊 Set RSS feed 🗦 Search details 💵 Index miner	
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1	COVID-19 Ischemic Strokes as an Emerging Rehabilitation Population: A Case Series Diaz-Segarra N., Edmond A., Kunac A., Yonclas P. American journal of physical medicine & rehabilitation 2020 99:10 (876-879) Cited by: 5 MEDLINE VAbstract VIndex Terms View Full Text	🕞 Similar records >
2	Immunity and coagulation and fibrinolytic processes may reduce the risk of severe illness in pregnant women with coronavirus disease 2019 Zhong Y., Cao Y., Zhong X., Peng Z., Jiang S., Tang T., Chen H., Li X., Xia Y., Cheng Y., Zhao X. American Journal of Obstetrics and Gynecology 2020 Cited by: 1	
	Embase MEDLINE V Abstract V Index Terms View Full Text	🕞 Similar records >
3	Using Social Media for Rapid Information Dissemination in a Pandemic: #PedsICU and <mark>Coronavirus Disease 2019</mark> Kudchadkar S.R., Carroll C.L. <i>Pediatric Critical Care Medicine</i> 2020 21:8 (E538-E546) Cited by: 6	
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4	Coronavirus disease 2019 and stroke in Iran: a case series and effects on stroke admissions Mehrpour M., Shuaib A., Farahani M., Hatamabadi H.R., Fatehi Z., Ghaffari M., Moghadam N.B., Aghamiri S.H., Mansouri B., Assarzadegan F., Lima B.S., Hesami O. <i>International Journal of Stroke</i> 2020 Cited by: 8	
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5	Favipiravir-based regimen for <mark>coronavirus disease 2019</mark> pneumonia for a 47-day-old male newborn Moolasart V., Wongsawat J., Phokhom P., Thienthong V. SAGE Open Medical Case Reports 2020 8	
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6	Harmonizing Heterogeneous Endpoints in Coronavirus Disease 2019 Trials without Loss of Information Von Cube M., Grodd M., Wolkewitz M., Hazard D., Wengenmayer T., Canet E., Lambert J. Critical Care Medicine 2020 (E11-E19)	





Embase New Identity Management System

- 新身份管理系統
- 自2021六月起, Embase啟用新身份管理系統,您可以用一組個人帳號, 登入管理Embase、ScienceDirect、Scopus資料庫。
- 若您已經在上述資料庫申請過個人帳號,請先登入後再使用Embase以啟用 所有功能 (書目匯出)
- 若您尚無任何Elsevier資料庫個人帳號,請參考下頁指示進行註冊。(需位於學校/醫院授權IP網址內才可進行註冊)
- Embase持續遭受網路盜用、違反合約輸出超大量資料並影響資料庫的運行, 故於2021六月起,書目資料匯出匯出上限為500筆,如需匯出大量資料, 需先登入個人帳號,每次匯出以10,000筆為限。



郵件提醒被動式搜索文獻

如果您關注一個研究主題,設定EMAIL,主動將符合您搜尋條件的新文章寄給您

Results								
('child'/mj OR 'child' OR 'children') AND ('infection' OR 'focal infection' OR ' <u>inapparent</u> infection' OR ' 'route of infection' OR 'silent infection' OR 'simult	'/mj OR 'accidental infection' OR 'acute infection' OR ' <u>autoinfection</u> ' OR 'bacterial infections and <u>mycoses</u> ' OR ' <u>bacteroid</u> infection' OR 'chronic infection' OR 'infection' OR 'infection mechanism' OR 'infection route' OR 'infection, focal' OR 'infectious disease' OR ' <u>infectivity</u> ' OR 'latent infection' OR 'prosthesis-relate caneous infection') AND ' <u>probiotic</u> agent'/mj	'dormant infection'						
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郵件提醒被動式搜索文獻





PICO Search

✓ Quick search頁面

以PICO 架構組成一個臨床問題

PICO – Population, Patient, Problem



PICO - Comparison



PICO - Intervention



PICO - Outcome



健康成人攝取魚油是否可以預防心血管疾病?

成人 Adult (18-64歲)



健康成人攝取魚油是否可以預防心血管疾病?





PICO Search Select Language | 🔻 New Quick PICO PV Wizard Medical device Advanced Drug Disease Device Article Authors /de /exp /br Q 預設搜尋範圍 /mj Find best term Population e.g. diabetes • Emtree -O anatomical concepts -O biological functions Intervention –O biomedical disciplines, science and... e.g. insulin -O chemical, physical and mathematic... 匬 -O chemicals and drugs O diseases Comparison **PICO Search input O** geographic names e.g. placebo O groups by age and sex 匬 O health care concepts -O named groups of persons Outcome -O organisms e.g. risk O procedures, parameters and devices 昷

Emtree搜尋



/de (Derivatives) 包含Emtree辭典中同義詞納入搜尋





/exp (Explosion) Emtree 詞彙+往下一層的下位詞



angiocardiopathy; angiocardiovascular disease; cardiovascular complication; cardiovascular diseases; cardiovascular disorder; cardiovascular disturbance; cardiovascular lesion; cardiovascular syndrome; cardiovascular vegetative disorder; complication, cardiovascular; disease, cardiovascular; major adverse cardiovascular event



/Br (Broad Search) Emtree詞彙+往下一層的下位詞 + Free text



angiocardiopathy; angiocardiovascular disease; cardiovascular complication; cardiovascular diseases; cardiovascular disorder; cardiovascular disturbance; cardiovascular lesion; cardiovascular syndrome; cardiovascular vegetative disorder; complication, cardiovascular; disease, cardiovascular; major adverse cardiovascular event



/mj (major focus) 搜尋Emtree被該篇文章註記為高度相關



cardiovascular event

Embase內建許多搜尋指令,影響搜尋範圍與文章數量



PICO 搜尋頁面 - Emtree 搜尋器



PICO 搜尋頁面 - Emtree 搜尋器



示範:糖尿病併發視網膜靜脈阻塞使用抗血管增 生劑 (anti-VEGF) (例如Ranibizumab, aflibercept) 相關報導?

Ρ	Population	=	Diabetic patients with retinal vein occlusion, RVO
I	Intervention	=	Ranibizumab
С	Comparison	=	aflibercept
0	Outcome	=	(blank)

找不到Emtree詞彙怎麼辦?如何以自由文字搜尋

PICO Search				G Select Lang	guage ▼			
Quick PICO PV Wizard Medical device Adv	anced Drug Disease	Device Citation information						
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—O biomedical disciplines, science and art	Intervention							
—O chemical, physical and mathematical phenomena	Intervention		Behavioral and psychological symptoms of dementia					
—O chemicals and drugs	behavioral and psychologi	ical symptoms of dementia /exp						
O diseases			Dehavioral and psychological symplectical	ptoms of dementia This is a candidate	term			
—O geographic names				promo or demenda - mo io a canalade	cerm			
—O groups by age and sex								
—O health care concepts e.g. placebo			Use 'Behavioral and psychological symptoms of dementia' as a free term					
—O named groups of persons			e.g. placebo					
—O organisms	0							
—O procedures, parameters and devices	Outcome							
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常用的 EBM 過濾器選項

Results			🧲 Select Language ∣ 🔻
('child'/mj OR 'child' OR 'children') AND ('ear infec trial]/lim OR [randomized controlled trial]/lim)	ion'/mj OR 'ear infection' OR 'infection, ear') Al	ND ' <u>probiotic</u> agent'/ <u>mi</u> AND ([<u>cochrane</u> review]/ <u>lim</u> OR [systematic review]/ <u>lim</u> OR [m	neta analysis]/lim OR [controlled clinical
Search > Mapping V Date V Sources	Fields ✓ Quick limits EBM ✓ Pub. ty	pes 🗸 Languages 🗸 Gender 🗸 Age 🗸 Animal 🗸	Search tips 🗸
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Age 🗸 🗸	Scott A.M., Clark J., Julier Cochrane Database of Sy	າ B., Islam F., Roos K., Grimwood K., Little P., Del Mar C.B. stematic Reviews 2019 2019:6 Article Number CD012941 Cited by: 0	
Gender 🗸 🗸	Embase MEDLINE	✓ Abstract ✓ Index Terms > View Full Text	new 🕞 Similar records >
Study types 🗸 🗸	2 Probiotics for the	prevention of pediatric antibiotic-associated diarrhea	



常用過濾選項及管理工具



Results	Select Language ▼
('child'/mj OR 'child' OR 'children') AND ('ear infec trial]/lim OR [randomized controlled trial]/lim)	tion'/mj OR 'ear infection' OR 'infection, ear') AND 'probiotic agent'/mj AND ([cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR [controlled clinical
Search > Mapping ∨ Date ∨ Sources ∨	✓ Fields ✓ Quick limits ✓ EBM ✓ Pub. types ✓ Languages ✓ Gender ✓ Age ✓ Animal ✓ Search tips ✓
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+ Expand - Collapse all Apply >	#2 ('child'/mj OR 'child' OR 'children') AND ('ear infection'/mj OR 'ear infection' OR 'infection, ear') AND 'probiotic agent'/mj AND ([cochrane review]/lim OR [systematic review]/lim OR [meta analysis]/lim OR [controlled clinical trial]/lim OR [randomized controlled trial]/lim) 6
Sources 🗸	#1 ('child'/mj OR 'child' OR 'children') AND ('ear infection'/mj OR 'ear infection' OR 'infection, ear') AND 'probiotic agent'/mj 7
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Devices 🗸	Select number of items Selected: 0 (clear) Show all abstracts Sort by: Relevance Publication Year Entry Date
Floating Subheadings \checkmark	I Probiotics for preventing acute otitis media in children
Age 🗸 🗸	Scott A.M., Clark J., Julien B., Islam F., Roos K., Grimwood K., Little P., Del Mar C.B. Cochrane Database of Systematic Reviews 2019 2019:6 Article Number CD012941 Cited by: 0
Gender 🗸 🗸	Embase MEDLINE V Abstract V Index Terms View Full Text
Study types 🗸 🗸	Probiotics for the prevention of pediatric antibiotic-associated diarrhea

Embase介面翻譯功能

透過 GOOGLE 翻譯選擇繁體中文,大幅縮短摘要瀏覽時間

Google 🔒 已翻	譯為 <u>中文(繁體)</u> ▼ 顯	i示原文		選項▼ ×]
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PV Wizard 藥物警戒搜尋介面 Medical Devices 醫療器材搜尋介面

Pharmavigillance藥物警戒搜尋介面 - 5個步驟進行全面的藥物安全文獻搜尋



Pharmavigillance藥物警戒搜尋介面



Medical Device醫療器材搜尋介面

Embase®	Search	Emtree	Journals	Results	My tools	Ryan Huang	Logout	ଦ୍ଧ	Û (?
Medical device							<mark>6</mark> 請i	選取語言	₹ ▼	
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Thank you

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