

《圖書館教育訓練課程》

如何善用圖書館電子資源： PICO實證醫學文獻整合檢索 (Medline + Embase)

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FlySheet
Med-Informatics

PART I

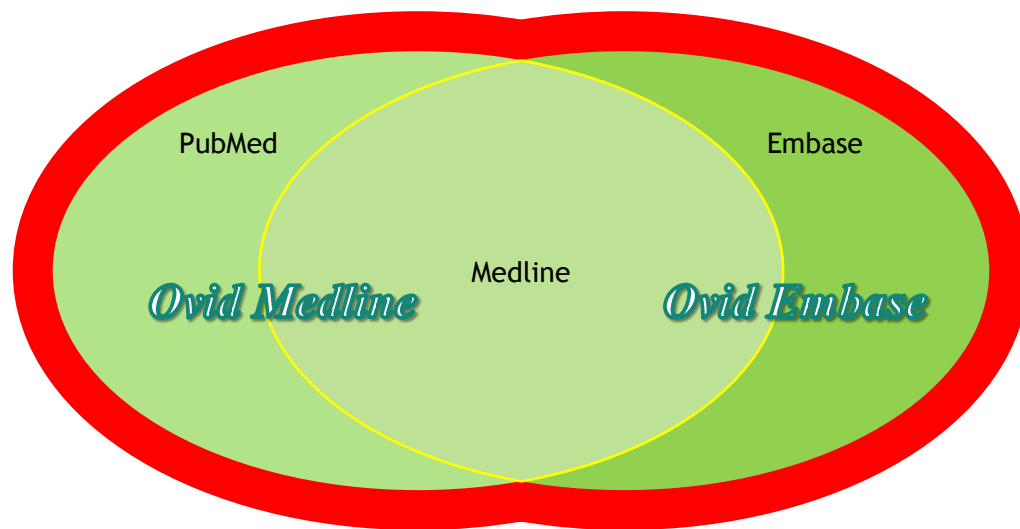
關於Medline & Embase



	Medline	EMBASE
主題	生命科學、 廣泛的醫學主題包 括基礎及臨床醫學、 護理學、牙科學 等.....	擅長於 Drugs- Pharmacology and Pharmaceutics - Conferences
收錄筆數	2400萬+	3100萬+
收錄期刊數	5600+	8500+
年代	1946(1902)~至今	1947(1908)~至今
主題	MeSH	Emtree

PubMed vs. Medline vs. Embase

All in Ovid Platform



Subject Heading 主題詞 in Embase and MEDLINE

EMTree:

- > 73,000 Subject Headings
- > 310,000 synonyms

<https://www.elsevier.com/solutions/embase-biomedical-research/embase-coverage-and-content>

MeSH Headings:

- > 27,883 Subject Headings
- > 87,000 synonyms

<https://www.nlm.nih.gov/pubs/factsheets/mesh.html>

Emtree was modelled on MeSH in 1988

http://supportcontent.elsevier.com/Support%20Hub/Embase/Files%20%20Attachments/4685-Embase_White%20Paper_Comparison%20of%20Emtree%20and%20MeSH_July%202015.pdf

主題方向不同：SubHeading

以疾病為例：

Medline

Subheadings for: DIABETES MELLITUS

Combine with:

☐ Include All Subheadings (109281)

-- or choose one or more of these subheadings --

- | | |
|--|--|
| ☐ /an - Analysis (1) | ☐ /hi - History (605) |
| ☐ /bl - Blood (16028) | ☐ /im - Immunology (2318) |
| ☐ /bs - Blood Supply (1) | ☐ /me - Metabolism (11302) |
| ☐ /cf - Cerebrospinal Fluid (37) | ☐ /mi - Microbiology (377) |
| ☐ /cs - Chemical Synthesis (3) | ☐ /mo - Mortality (2717) |
| ☐ /ci - Chemically Induced (2087) | ☐ /nu - Nursing (1372) |
| ☐ /ch - Chemistry (3) | ☐ /ps - Parasitology (19) |
| ☐ /cl - Classification (849) | ☐ /pa - Pathology (3920) |
| ☐ /cn - Congenital (134) | ☐ /ph - Physiology (231) |
| ☐ /di - Diagnosis (9339) | ☐ /pp - Physiopathology (10715) |
| ☐ /dg - Diagnostic Imaging (451) | ☐ /pc - Prevention & Control (4521) |
| ☐ /dh - Diet Therapy (1915) | ☐ /px - Psychology (3094) |
| ☐ /dt - Drug Therapy (15025) | ☐ /rt - Radiotherapy (18) |
| ☐ /ec - Economics (1685) | ☐ /rh - Rehabilitation (1136) |
| ☐ /ed - Education (2) | ☐ /sn - Statistics & Numerical Data (181) |
| ☐ /em - Embryology (35) | ☐ /su - Surgery (1229) |
| ☐ /en - Enzymology (1359) | ☐ /th - Therapy (13380) |
| ☐ /ep - Epidemiology (17400) | ☐ /tm - Transmission (5) |
| ☐ /eh - Ethnology (1980) | ☐ /ur - Urine (1164) |
| ☐ /et - Etiology (6048) | ☐ /ve - Veterinary (813) |
| ☐ /ge - Genetics (5544) | ☐ /vi - Virology (84) |

EMbase

Subheadings for: diabetes mellitus

Combine with:

☐ Include All Subheadings (532706)

-- or choose one or more of these subheadings --

- | | |
|--|---|
| ☐ /co - Complication (4905) | ☐ /ep - Epidemiology (14128) |
| ☐ /cn - Congenital Disorder (237) | ☐ /et - Etiology (13308) |
| ☐ /di - Diagnosis (13886) | ☐ /pc - Prevention (7189) |
| ☐ /dm - Disease Management (3867) | ☐ /rt - Radiotherapy (24) |
| ☐ /an - Drug Analysis (1) | ☐ /rh - Rehabilitation (876) |
| ☐ /dr - Drug Resistance (112) | ☐ /si - Side Effect (7858) |
| ☐ /dt - Drug Therapy (42705) | ☐ /su - Surgery (1980) |
| ☐ /to - Drug Toxicity (1) | ☐ /th - Therapy (12131) |

主題方向不同：SubHeading

以藥物為例：

Medline

Subheadings for: **WARFARIN**

Combine with:

☐ Include All Subheadings (17997)

-- or choose one or more of these subheadings --

- | | |
|---|--|
| ☐ /ad - Administration & Dosage (4848) | ☐ /im - Immunology (10) |
| ☐ /ae - Adverse Effects (5089) | ☐ /ip - Isolation & Purification (50) |
| ☐ /ag - Agonists (2) | ☐ /me - Metabolism (860) |
| ☐ /aa - Analogs & Derivatives (100) | ☐ /pk - Pharmacokinetics (877) |
| ☐ /an - Analysis (142) | ☐ /pd - Pharmacology (2020) |
| ☐ /ai - Antagonists & Inhibitors (186) | ☐ /ph - Physiology (1) |
| ☐ /bi - Biosynthesis (1) | ☐ /po - Poisoning (116) |
| ☐ /bl - Blood (772) | ☐ /st - Standards (30) |
| ☐ /cs - Chemical Synthesis (18) | ☐ /sd - Supply & Distribution (7) |
| ☐ /ch - Chemistry (321) | ☐ /tu - Therapeutic Use (8495) |
| ☐ /cl - Classification (3) | ☐ /to - Toxicity (118) |
| ☐ /ec - Economics (287) | ☐ /ur - Urine (50) |
| ☐ /hi - History (23) | |

EMbase

Subheadings for: **warfarin**

Combine with:

☐ Include All Subheadings (84955)

-- or choose one or more of these subheadings --

- | | |
|--|---|
| ☐ /ae - Adverse Drug Reaction (11727) | ☐ /na - Intranasal Drug Administration (2) |
| ☐ /bd - Buccal Drug Administration (2) | ☐ /io - Intraocular Drug Administration (2) |
| ☐ /ct - Clinical Trial (5171) | ☐ /ip - Intraperitoneal Drug Administration (18) |
| ☐ /ad - Drug Administration (1275) | ☐ /pl - Intrapleural Drug Administration (2) |
| ☐ /an - Drug Analysis (792) | ☐ /tr - Intratracheal Drug Administration (1) |
| ☐ /cb - Drug Combination (6268) | ☐ /va - Intravaginal Drug Administration (2) |
| ☐ /cm - Drug Comparison (6154) | ☐ /iv - Intravenous Drug Administration (232) |
| ☐ /cr - Drug Concentration (748) | ☐ /vi - Intravitreal Drug Administration (1) |
| ☐ /dv - Drug Development (127) | ☐ /po - Oral Drug Administration (5533) |
| ☐ /do - Drug Dose (3544) | ☐ /pa - Parenteral Drug Administration (27) |
| ☐ /it - Drug Interaction (6785) | ☐ /pr - Pharmaceutics (320) |
| ☐ /dt - Drug Therapy (36875) | ☐ /pe - Pharmacoeconomics (960) |
| ☐ /to - Drug Toxicity (681) | ☐ /pk - Pharmacokinetics (3090) |
| ☐ /ec - Endogenous Compound (30) | ☐ /pd - Pharmacology (4296) |
| ☐ /ei - Epidural Drug Administration (1) | ☐ /rc - Rectal Drug Administration (1) |
| ☐ /ih - Inhalational Drug Administration (1) | ☐ /rp - Regional perfusion (1) |
| ☐ /ia - Intraarterial Drug Administration (5) | ☐ /rb - Retrobulbar Drug Administration (1) |
| ☐ /bu - Intrabursal Drug Administration (2) | ☐ /cj - Subconjunctival Drug Administration (1) |
| ☐ /cv - Intracerebroventricular Drug Administration (1) | ☐ /sc - Subcutaneous Drug Administration (76) |
| ☐ /ci - Intracisternal Drug Administration (1) | ☐ /li - Sublingual Drug Administration (1) |
| ☐ /du - Intraduodenal Drug Administration (1) | ☐ /tp - Topical Drug Administration (4) |
| ☐ /ig - Intragastric Drug Administration (12) | ☐ /td - Transdermal Drug Administration (1) |
| ☐ /im - Intramuscular Drug Administration (6) | |

PART II

查詢Medline& Embase

PICO實證醫學文獻整合檢索



Ovid PICO Widget

資料庫進入方式

- 圖書館電子資源→PICO實證醫學文獻整合檢索 (Medline + Embase)
- 示意圖



Ovid PICO Widget

PICO檢索工具可以協助您快速在Ovid Medline 及 Embase 資料庫查詢您的PICO問題。請注意這是用於協助您建立PICO問題的入門工具，並不是用於取代更嚴謹、精準的進階查詢。

Example PICO*: **P**=Teenagers who smoke, **I**=Brief intervention, **C**=None, **O**=Outcome

PICO 範例: 利用vaccination 疫苗 (**I**) Prevention 預防 (**O**) adults 成人 (**P**) whooping cough 百日咳 (**P**)

*並非所有問題都一定有相對應PICO元素，在這個範例中“C”就沒有被用到。

Databases: ☒ Embase ☒ Medline

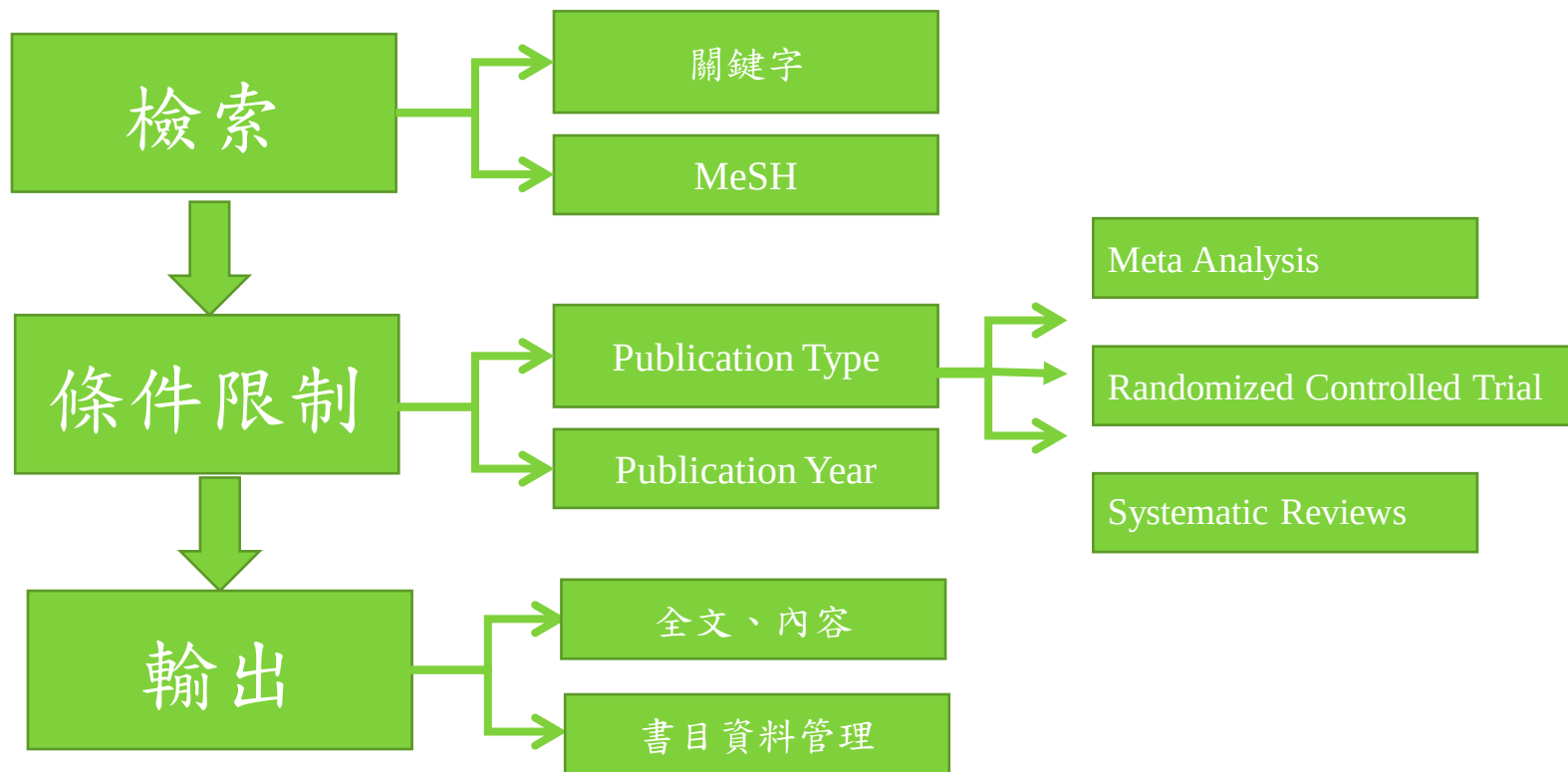
P: Patient, Population, Problem or Disease
P: 病患/ 人口 / 問題 / 疾病 => 病患是誰，有什麼問題

I: Intervention or Issue
治療方式或問題 => 我們可以做些什麼來處置，或病患正面臨的問題

C: Comparison Intervention or Issue
治療或問題的對比組 => 我們用什麼方式與前述處置方式做比較

O: Outcome
預期效果 => 會有什麼預期結果發生

文獻檢索三步驟



快速精準的查詢EBM文獻步驟



1. PICO：形成一個可回答的臨床問題

- 患有第二型糖尿病患者，服用降血糖藥物Janumet是否可有效預防/治療心血管疾病併發症的風險嗎？

P

- Patient or Problem
- 病人是誰，有甚麼問題？

type II diabetes

I

- Intervention or Indicator
- 想要作哪些觀察、診斷或治療？

Janumet

C

- Comparator
- 有無其他方式或選擇？

O

- Outcome
- 效果是甚麼？或是預計的結果？

cardiovascular diseases

1. PICO：形成一個可回答的臨床問題

- 患有川崎氏病的兒童，服用低劑量的Aspirin是否可有效預防/治療冠狀動脈瘤的風險嗎？

P

- Patient or Problem
- 病人是誰，有甚麼問題？

Kawasaki, children

I

- Intervention or Indicator
- 想要作哪些觀察、診斷或治療？

Aspirin

C

- Comparator
- 有無其他方式或選擇？

O

- Outcome
- 效果是甚麼？或是預計的結果？

Coronary Aneurysm

1. PICO：形成一個可回答的臨床問題

- 骨盆底肌肉運動是否可降低產後尿失禁情形？

P

- Patient or Problem
- 病人是誰，有甚麼問題？

postpartum women

I

- Intervention or Indicator
- 想要作哪些觀察、診斷或治療？

pelvic floor exercise

C

- Comparator
- 有無其他方式或選擇？

O

- Outcome
- 效果是甚麼？或是預計的結果？

urinary incontinence

1. PICO：形成一個可回答的臨床問題

- 膀胱功能障礙的患者實施間歇性導尿計畫是否可降低尿道感染情形？

P

- Patient or Problem
- 病人是誰，有甚麼問題？

Bladder dysfunction

I

- Intervention or Indicator
- 想要作哪些觀察、診斷或治療？

intermittent catheterization

C

- Comparator
- 有無其他方式或選擇？

O

- Outcome
- 效果是甚麼？或是預計的結果？

Urinary tract infection

切截字與萬用字元：當沒有適用的MeSH標題時或查詢數量太少，也可以利用以下方式做關鍵字查詢

- 切截字：\$或*
 - 無限制切截查詢：
 - depress\$→depress, depressive, depressants, depressor.....
 - rat\$→rat , rate, rationalize, ratify.....
 - 有限制切截查詢：
 - dog\$1 →dog, dogs...（但是不會查dogma）
- 其他字元：#和?
 - 放在關鍵字的中間或後面，前方最少需2個字元以上
 - wom#n →woman、women
 - dog# → dogs（但是不會查到dog）
 - colo?r → color, colour
 - dog? →dog, dogs

Thanks

飛資得醫學資訊