

文獻證據搜尋



曾惠翎

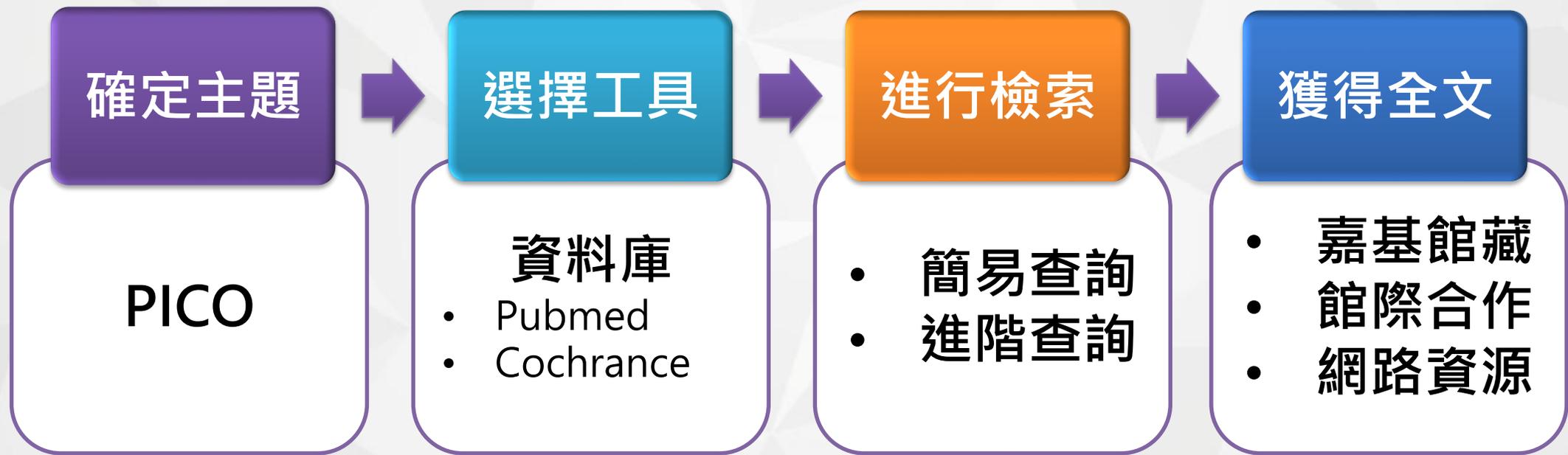
大綱

- 1 · 文獻搜尋的流程
- 2 · 認識文獻證據等級
- 3 · 搜尋策略
- 4 · 搜尋資料庫

1

文獻搜尋的流程

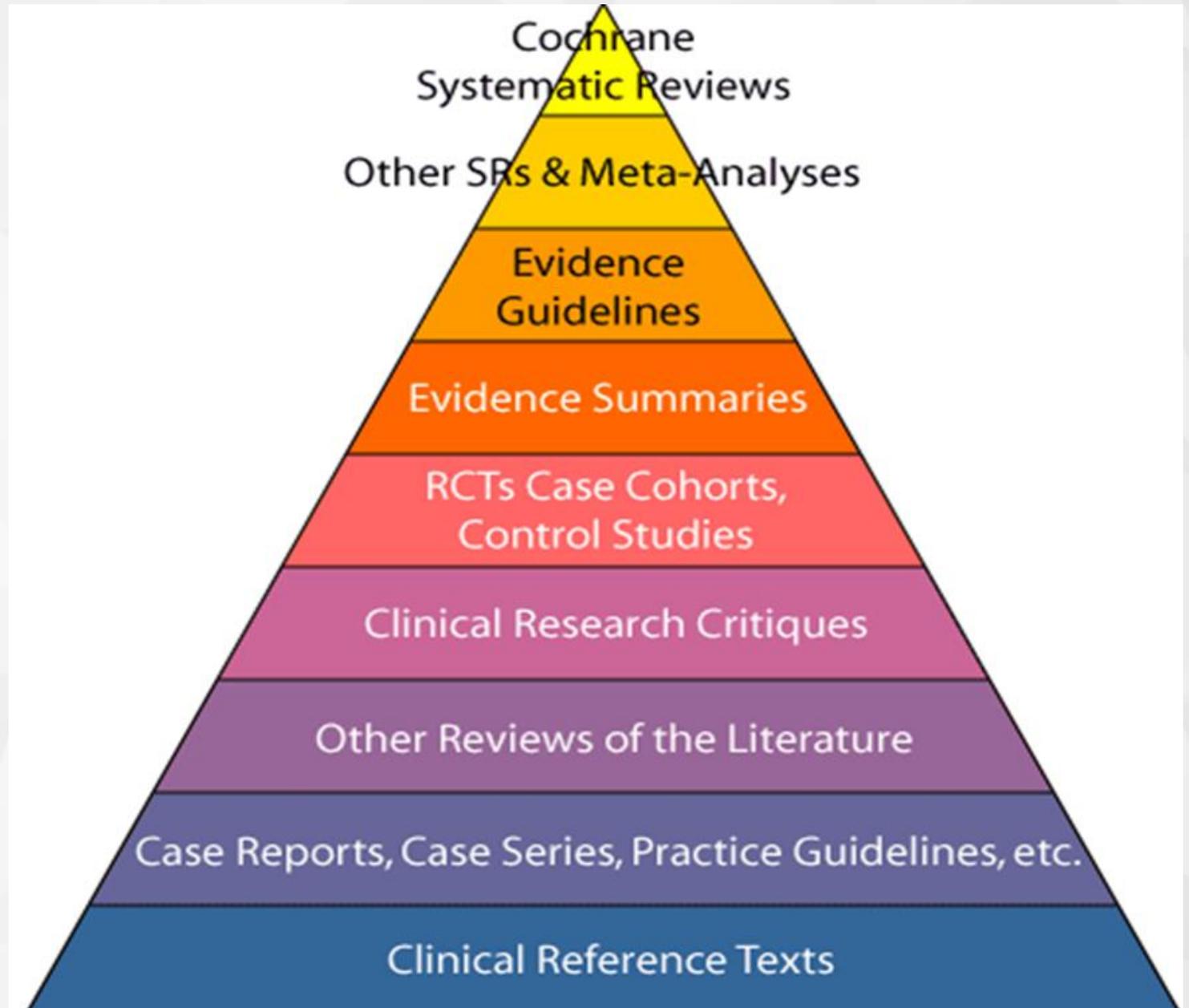
文獻搜尋流程



2

認識證據等級

證據等級 金字塔



牛津實證醫學中心證據等級表 (2011)

Oxford Centre for Evidence-Based Medicine 2011 Levels of Evidence

Question	Step 1 (Level 1*)	Step 2 (Level 2*)	Step 3 (Level 3*)	Step 4 (Level 4*)	Step 5 (Level 5)
How common is the problem?	Local and current random sample surveys (or censuses)	Systematic review of surveys that allow matching to local circumstances**	Local non-random sample**	Case-series**	n/a
Is this diagnostic or monitoring test accurate? (Diagnosis)	Systematic review of cross sectional studies with consistently applied reference standard and blinding	Individual cross sectional studies with consistently applied reference standard and blinding	Non-consecutive studies, or studies without consistently applied reference standards**	Case-control studies, or "poor or non-independent reference standard**	Mechanism-based reasoning
What will happen if we do not add a therapy? (Prognosis)	Systematic review of inception cohort studies	Inception cohort studies	Cohort study or control arm of randomized trial*	Case-series or case-control studies, or poor quality prognostic cohort study**	n/a
Does this intervention help? (Treatment Benefits)	Systematic review of randomized trials or <i>n</i> -of-1 trials	Randomized trial or observational study with dramatic effect	Non-randomized controlled cohort/follow-up study**	Case-series, case-control studies, or historically controlled studies**	Mechanism-based reasoning
What are the COMMON harms? (Treatment Harms)	Systematic review of randomized trials, systematic review of nested case-control studies, <i>n</i> -of-1 trial with the patient you are raising the question about, or observational study with dramatic effect	Individual randomized trial or (exceptionally) observational study with dramatic effect	Non-randomized controlled cohort/follow-up study (post-marketing surveillance) provided there are sufficient numbers to rule out a common harm. (For long-term harms the duration of follow-up must be sufficient.)**	Case-series, case-control, or historically controlled studies**	Mechanism-based reasoning
What are the RARE harms? (Treatment Harms)	Systematic review of randomized trials or <i>n</i> -of-1 trial	Randomized trial or (exceptionally) observational study with dramatic effect			
Is this (early detection) test worthwhile? (Screening)	Systematic review of randomized trials	Randomized trial	Non-randomized controlled cohort/follow-up study**	Case-series, case-control, or historically controlled studies**	Mechanism-based reasoning

* Level may be graded down on the basis of study quality, imprecision, indirectness (study PICO does not match questions PICO), because of inconsistency between studies, or because the absolute effect size is very small; Level may be graded up if there is a large or very large effect size.

** As always, a systematic review is generally better than an individual study.

How to cite the Levels of Evidence Table

OCEBM Levels of Evidence Working Group*. "The Oxford 2011 Levels of Evidence".

Oxford Centre for Evidence-Based Medicine. <http://www.cebm.net/index.aspx?o=5653>

* OCEBM Table of Evidence Working Group = Jeremy Howick, Iain Chalmers (James Lind Library), Paul Glasziou, Trish Greenhalgh, Carl Heneghan, Alessandro Liberati, Ivan Moschetti, Bob Phillips, Hazel Thornton, Olive Goddard and Mary Hodgkinson

牛津實證醫學中心證據等級表 (2011)

臨床問題	證據等級1*	證據等級2*	證據等級3*	證據等級4*	證據等級5*
該項臨床問題多常見?	地區及當代區域隨機樣本普查	適合當地環境普查系統性文獻回顧**	地區及區域性非隨機樣本調查**	系列性病例或個案報告**	N/A
診斷或審查監測的工具正確嗎? (診斷)	有一致參考標準 (黃金標準) 及盲化的世代研究的系統性文獻回顧	有一致參考標準 (黃金標準) 及盲化的世代性研究	非連續性研究或沒有一致參考標準 (黃金標準) 的研究**	病例或個案對照試驗、品質較低或沒有獨立參考標準的研究**	依基本原理的推估
如果沒有治療會產生什麼後果? (預後)	起初世代研究的系統性文獻回顧	起初世代研究	世代研究或臨床隨機對照試驗**	系列病例或個案報告、病例對照試驗或品質低的預後世代研究**	N/A
介入治療有幫助嗎? (治療益處)	隨機臨床對照試驗或隨機序列介入治療試驗 (N-of-1) 系統性文獻回顧	隨機臨床對照試驗或有顯著療效的觀察型研究	非隨機臨床對照的世代研究 / 對照追縱研究**	系列病例或個案報告、病例或個案對照試驗或歷史對照試驗**	依基本原理的推估
介入治療有害處嗎? (治療傷害)	隨機臨床對照試驗、巢氏病例對照試驗、隨機序列介入治療試驗 (N-of-1) 或有療效顯著的觀察型研究的系統性文獻回顧	隨機臨床對照試驗或有顯著傷害的觀察型研究	非隨機對照的世代 / 追縱研究 (上市後審查監測) 提供足夠的樣本數去排除傷害 (關於長期傷害, 須有夠長時間的追縱)**	系列病例或個案報告、病例或個案對照試驗或歷史對照試驗**	依基本原理的推估
介入治療有罕見害處嗎? (治療傷害)	隨機臨床對照試驗或隨機序列介入治療試驗 (n-of-1) 的系統性文獻回顧	隨機臨床對照試驗或有顯著傷害的觀察型研究			
該項值得早期診斷嗎? (篩檢)	隨機臨床對照試驗的系統性文獻回顧	隨機臨床對照試驗	非隨機臨床對照的世代研究 / 追縱研究**	系列病例或個案報告、病例或個案對照試驗或歷史對照試驗**	依基本原理的推估

註：* 問題和臨床情境不相符，或證據之間沒有一致性、絕對效果小，和研究品質差、不精確 (95%CI信賴區間大) 則證據等級可以降級。如果研究絕對效果顯著，則證據等級可以升級。PICO

註：**系統性文獻回顧優於單一研究文獻

證據等級	治療/預防研究、病因、傷害研究
1a	SR (with <u>homogeneity</u> *) of RCT高同質性的隨機對照試驗的系統性回顧文獻
1b	Individual RCT (with narrow Confidence Interval)單篇的隨機對照試驗 (具窄的信賴區間)
1c	All or none全有全無試驗
2a	SR (with <u>homogeneity</u> *) of cohort study高同值性的世代研究的系統性回顧文獻
2b	Individual cohort study (include low quality RCT; e.g., <80% follow-up)單篇的病例對照研究
2c	"Outcomes" Research預後研究
3a	SR (with <u>homogeneity</u> *) of case-control studies高同值性的病例對照研究的系統性回顧文獻
3b	Individual Case-Control Study單篇的病例對照研究
4	Case-series (and poor quality cohort and case-control studies) 系列病例報告：低品質的世代研究或病例對照研究
5	Expert opinion without explicit critical appraisal, or based on physiology bench research or "first principles" 未經嚴格的評判的專家意見：或基於生理學實驗室研究或基本原理的建議

3

搜尋策略

文獻搜尋技巧

MeSH Terms

以Limit檢索

以Trucation
檢索

布林邏輯



MeSH Terms (Medical Subject Headings)

- 對同一概念採用固定的詞彙表達方式
 - 方便生物醫學領域的學者或從業人員彼此間的溝通
 - 可用以陳述資料內容的主題意涵並提供檢索
-
- 協助找出精確符合主題的資料
 - 無須煩惱因縮寫、別名而遺漏相關文獻
 - 使用同義詞擴大查詢出相關文獻

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National Center for Biotechnology Information

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PubMed.gov

Advanced

1. 進入Advanced

Search

PubMed comprises more than 33 million citations for biomedical literature from MEDLINE, life science journals, and online books. Citations may include links to full text content from PubMed Central and publisher web sites.

NIH National Library of Medicine
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Filters applied: Abstract. Clear all

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2. 選擇MeSH

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[Germline whole exome sequencing of a family with appendiceal mucinous tumours presenting with pseudomyxoma peritonei.](#) Lung MS et al. BMC Cancer. (2020)

[Post-inhaled corticosteroid pulmonary tuberculosis and pneumonia increases lung cancer in patients with COPD.](#) Wu MF et al. BMC Cancer. (2016)

[Milk consumption in relation to incidence of nasopharyngeal carcinoma in 48 countries/regions.](#) Mai ZM et al. BMC Cancer. (2015)

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Search results

Items: 13

- [Lung Neoplasms](#)
 1. Tumors or cancer of the LUNG.
- [DLEC1 protein, human \[Supplementary Concept\]](#)
 2. RefSeq NM_007337
Date introduced: June 1, 1999
- [Small Cell Lung Carcinoma](#)
 3. A form of highly malignant **lung cancer** that is composed of small ovoid cells (SMALL CELL CARCINOMA).
Year introduced: 2009
- [Carcinoma, Non-Small-Cell Lung](#)
 4. A heterogeneous aggregate of at least three distinct histological types of **lung cancer**, including SQUAMOUS CELL CARCINOMA; ADENOCARCINOMA; and LARGE CELL CARCINOMA. They are dealt with collectively because of their shared treatment strategy.
Year introduced: 1994
- [lung cancer-associated protein, LCAP \[Supplementary Concept\]](#)
 5. a high MW glycoprotein, defined by monoclonal antibodies DF-L1 & DF-L2 that circulates at elevated levels in patients with **lung cancer**; do not confuse with leukocytapheresis (LCAP)
Date introduced: December 3, 1997
- [SECISBP2L protein, human \[Supplementary Concept\]](#)
 6. RefSeq NM_014701
Date introduced: October 27, 2011
- [MED19 protein, human \[Supplementary Concept\]](#)
 7. RefSeq NM_153450

選擇Lung Neoplasms

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Database:

Search details

"lung neoplasms"[MeSH Terms] OR lung cancer[Text Word]

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Lung Neoplasms

Tumors or cancer of the LUNG.

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[Subheadings:](#)

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| <input type="checkbox"/> anatomy and histology | <input type="checkbox"/> enzymology | <input type="checkbox"/> physiopathology |
| <input type="checkbox"/> blood | <input type="checkbox"/> epidemiology | <input type="checkbox"/> prevention and control |
| <input type="checkbox"/> blood supply | <input type="checkbox"/> ethnology | <input type="checkbox"/> psychology |
| <input type="checkbox"/> cerebrospinal fluid | <input type="checkbox"/> etiology | <input type="checkbox"/> radiation effects |
| <input type="checkbox"/> chemically induced | <input type="checkbox"/> genetics | <input type="checkbox"/> radiotherapy |
| <input type="checkbox"/> chemistry | <input type="checkbox"/> history | <input type="checkbox"/> rehabilitation |
| <input type="checkbox"/> classification | <input type="checkbox"/> immunology | <input type="checkbox"/> secondary |
| <input type="checkbox"/> complications | <input type="checkbox"/> metabolism | <input type="checkbox"/> statistics and numerical data |
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| <input type="checkbox"/> cytology | <input type="checkbox"/> mortality | <input checked="" type="checkbox"/> therapy |
| <input type="checkbox"/> diagnosis | <input type="checkbox"/> nursing | <input type="checkbox"/> transmission |
| <input type="checkbox"/> diagnostic imaging | <input type="checkbox"/> organization and administration | <input type="checkbox"/> ultrastructure |
| <input type="checkbox"/> diet therapy | <input type="checkbox"/> parasitology | <input type="checkbox"/> urine |
| <input type="checkbox"/> drug effects | <input type="checkbox"/> pathogenicity | <input type="checkbox"/> veterinary |
| <input type="checkbox"/> drug therapy | <input type="checkbox"/> pathology | <input type="checkbox"/> virology |
| <input type="checkbox"/> economics | <input type="checkbox"/> pharmacology | |

Restrict to MeSH Major Topic.

Do not include MeSH terms found below this term in the MeSH hierarchy.

Tree Number(s): C04.588.894.797.520, C08.381.540, C08.785.520

MeSH Unique ID: D008175

Entry Terms:

- Pulmonary Neoplasms
- Neoplasms, Lung
- Lung Neoplasm
- Neoplasm, Lung
- Neoplasms, Pulmonary
- Neoplasm, Pulmonary
- Pulmonary Neoplasm
- Lung Cancer
- Cancer, Lung
- Cancers, Lung
- Lung Cancers
- Pulmonary Cancer
- Cancer, Pulmonary
- Cancers, Pulmonary
- Pulmonary Cancers
- Cancer of the Lung
- Cancer of Lung

主標題 lung cancer的MeSH詞彙

副標題

Lung cancer Neoplasms 的同義詞

PubMed Search Builder

"Lung Neoplasms/therapy"[Mesh]

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Lung Neoplasms

MeSH

lung cancer (13)

MeSH

"lung neoplasms"[MeSH Terms] OR lung cancer[Text Word] (13)

MeSH

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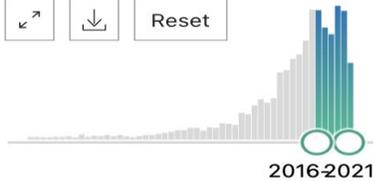
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- Randomized Controlled Trial
- Review
- Systematic Review

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1 [Traditional herbal medicine combined with first-line platinum-based chemotherapy for advanced non-small-cell lung cancer: A PRISMA-compliant systematic review and meta-analysis.](#)

Cite Jin H, Park SB, Yoon JH, Lee JY, Kim EH, Yoon SW.
Share Medicine (Baltimore). 2021 Sep 17;100(37):e27163. doi: 10.1097/MD.00000000000027163. PMID: 34664842 [Free PMC article.](#)

2 [The benefits and risks of pembrolizumab in combination with chemotherapy as first-line therapy in small-cell lung cancer: a single-arm meta-analysis of noncomparative clinical studies and randomized control trials.](#)

Cite Liu Q, Zhang Y, Liu M, Xu R, Yi F, Wei Y, Zhu S, Zhang W.
Share World J Surg Oncol. 2021 Oct 14;19(1):298. doi: 10.1186/s12957-021-02410-3. PMID: 34645484 [Free PMC article.](#) Review.

3 [Acupuncture against chronic postsurgical pain in non-small cell lung cancer patients: A protocol of randomized controlled trial.](#)

Cite Li G, Zhang C, Wang C, Xiao L.
Share Medicine (Baltimore). 2021 Oct 8;100(40):e27461. doi: 10.1097/MD.00000000000027461. PMID: 34622872 [Free PMC article.](#) Clinical Trial.

4 [First-line nivolumab plus ipilimumab with two cycles of chemotherapy versus chemotherapy alone \(four cycles\) in advanced non-small-cell lung cancer: CheckMate 9LA 2-year update.](#)

Cite Reck M, Ciuleanu TE, Cobo M, Schenker M, Zurawski B, Menezes J, Richardet E, Bannouna J, Felip E, Juan-Vidal O, Alexandru A, Sakai H, Lingua A, Reyes F, Souquet PJ, De Marchi P, Martin C, Pérol M, Scherpereel A, Lu S, Paz-Ares L, Carbone DP, Memaj A, Marimuthu S, Zhang X, Tran P, John T.
Share ESMO Open. 2021 Oct;6(5):100273. doi: 10.1016/j.esmoop.2021.100273. Epub 2021 Oct 1. PMID: 34607285 [Free PMC article.](#) Clinical Trial.

5 [Feasibility of Aerobic Exercise and Tai-Chi Interventions in Advanced Lung Cancer Patients: A Randomized Controlled Trial.](#)

Cite Cheung DST, Takemura N, Lam TC, Ho JCM, Deng W, Smith R, Yan Y, Lee AWM, Lin CC.
Share Integr Cancer Ther. 2021 Jan;Dec:30:15247354211033353. doi: 10.1177/15247354211033353.



運用“ Limit” 檢索功能

- 限定文章檢索的語言、人類或動物主題、出版類型(RCT..)、發表年份、全文、年齡等



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 - 如「child*」可查到「children」、「childhood」、「childs」
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 - MEDLINE: \$ 或 :

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- 當關鍵字不想被拆開時~
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- 可單獨或搭配使用
(Infant OR children) AND (allergy OR hypersensitivity)

4

搜尋資料庫

主題：

服用益生菌是否能預防幼兒發生過敏性疾病

主要詞	同義詞1	同義詞2
P: (Infant	OR preschool	OR child*) AND
I: (probiotics)		AND
O: (allergy	OR hypersensitivity	OR allerg*)AND

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Title Abstract Keyword ▾ Infant OR preschool OR child*

AND ▾ Title Abstract Keyword ▾ probiotics

AND ▾ Title Abstract Keyword ▾ allergy OR hypersensitivity OR allerg

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Intervention 3

3 Cochrane Reviews matching **Infant OR preschool OR child* in Title Abstract Keyword AND probiotics in Title Abstract Keyword AND allergy OR hypersensitivity OR allerg* in Title Abstract Keyword - (Word variations have been searched)**

Cochrane Database of Systematic Reviews
Issue 10 of 12, October 2021

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1

Probiotics for treating eczema

Areti Makrgeorgou, Jo Leonardi-Bee, Fiona J Bath-Hextall, Dedee F Murrell, Mimi LK Tang, Amanda Roberts, Robert J Boyle

Intervention Review 21 November 2018 New search Free access

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2

Probiotics in infants for prevention of allergic disease and food hypersensitivity

David A Osborn, John KH Sinn

Intervention Review 17 October 2007

Show PICO's BETA ▼ Show preview ▼

3

Probiotics for people with cystic fibrosis

Michael J Coffey, Millie Garg, Nusrat Homaira, Adam Jaffe, Chee Y Ooi

Intervention Review 22 January 2020 Free access

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412 Trials matching Infant OR preschool OR child* in Title Abstract Keyword AND probiotics in Title Abstract Keyword AND allergy OR hypersensitivity OR allerg* in Title Abstract Keyword - (Word variations have been searched)

Cochrane Central Register of Controlled Trials
Issue 10 of 12, October 2021

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- Microbiota as Potential Target for Food Allergy**
NCT02087930
<https://clinicaltrials.gov/show/NCT02087930>, 2014 | added to CENTRAL: 31 May 2018 | 2018 Issue 5
CT.gov
- Early probiotic supplementation for allergy prevention: long-term outcomes**
MP Jensen, S Meldrum, AL Taylor, JA Dunstan, SL Prescott
Journal of allergy and clinical immunology, 2012, 130(5), 1209-1211.e5 | added to CENTRAL: 30 April 2013 | 2013 Issue 4
PubMed
- the Effectiveness of Probiotics on Atopic Dermatitis With Cow Milk Allergy**
NCT01045486
<https://clinicaltrials.gov/show/NCT01045486>, 2010 | added to CENTRAL: 31 May 2018 | 2018 Issue 5
CT.gov
- Probiotics in Prevention of Allergies, Obesity and Caries**
NCT00894816
<https://clinicaltrials.gov/show/NCT00894816>, 2009 | added to CENTRAL: 31 May 2018 | 2018 Issue 5
CT.gov
- Perinatal Probiotic Mixture and Development of Allergic Sensitization up to 13 Years of Age**
PS Peldan, AK Kukkonen, E Savilahti, M Kuitunen
International archives of allergy and immunology, 2020, 181(4), 270-277 | added to CENTRAL: 31 July 2020 | 2020 Issue 07
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Probiotics in infants for prevention of allergic disease and food hypersensitivity

David A Osborn,  [John KH Sinn](#) Authors' declarations of interestVersion published: 17 October 2007 [Version history](#)<https://doi.org/10.1002/14651858.CD006475.pub2> [Collapse all](#) [Expand all](#)

Abstract

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Background

The composition of the intestinal microflora may be different in individuals with atopic eczema from those without this condition, and such differences may precede the development of eczema. Probiotics are live bacteria that colonize the gastrointestinal tract and provide a health benefit to the host. Probiotics added to infant feeds have the potential to prevent sensitisation of infants to dietary allergens.

Objectives

To determine the effect of probiotics given to infants for the prevention of allergic disease or food hypersensitivity.

Search methods

This included searches of the Cochrane Central Register of Controlled Trials (Issue 1, 2007), MEDLINE (1966 - February 2007), EMBASE, PREMEDLINE, abstracts of conference proceedings and citations of published articles, and expert informants.

Selection criteria

Randomised and quasi-randomised controlled trials that compare the use of a probiotic to no probiotic; or the use a specific probiotic compared to a different probiotic; or a probiotic with added prebiotic to control.

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2 [Food-induced fatal anaphylaxis: From epidemiological data to general prevention strategies.](#)
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3 [Tralokinumab for moderate-to-severe atopic dermatitis: results from two 52-week, randomized, double-blind, multicentre, placebo-controlled phase III trials \(ECZTRA 1 and ECZTRA 2\).](#)
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