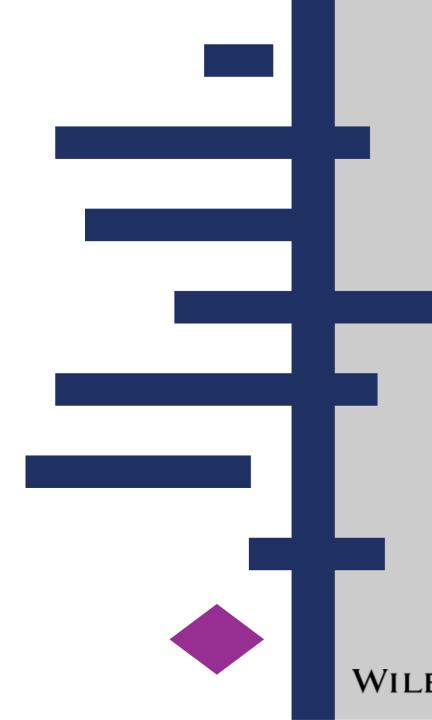
Trusted evidence. Informed decisions. Better health.

The Cochrane Library

Library Network Office for VHA

Mary Helen Yount, Customer Training Manager, Wiley





Agenda

Background: what is Cochrane, and what is the Cochrane Library?

What's in the Cochrane Library?

Benefits of the Cochrane Library

Key features

Using the Cochrane Library: Live demo

- Browsing
- Basic search
- Help and Training resources





What is Cochrane?

An international collaboration of over 50,000 researchers, health professionals, patients, carers, and people passionate about improving health outcomes for everyone, everywhere

Their objective is to ensure that the treatments used every day around the world, are based on the best possible knowledge, which is independently assessed and quality checked

Cochrane does not accept commercial or conflicted funding. This is vital to generate authoritative and reliable information, working freely, unconstrained by commercial and financial interests.

They have been doing this for 30 years





What is the Cochrane Library?

A collection of databases that contain different types of high-quality, independent evidence to inform healthcare decision-making





What's in the Cochrane Library?







Cochrane Database of Systematic Reviews (CDSR)

11,000+ reviews and protocols



Central Register of Controlled Trials (CENTRAL)

Over 1.9 million trials



Cochrane Clinical Answers

3,000+ bite-sized actionable answers to inform point-of-care decision making for clinicians

Plus additional curated content such as Editorials, Special Collections, and systematic reviews in McMaster's Health Systems Evidence and Social Systems Evidence.





Cochrane Database of Systematic Reviews

- Cochrane systematic reviews are internationally recognised as the gold-standard of evidence.
- Each systematic review asks a specific clinical question such as 'Can Vitamin C prevent and treat the common cold?'
- Reviewers use stringent methods to summarize and interpret the results of existing research on this topic to establish whether there is conclusive evidence to answer the question.
- Only research that meets rigorous quality criteria is included in the review ensuring credible, reliable results.





Cochrane Register of Controlled Trials (CENTRAL)

What is CENTRAL?

- A concentrated source for bibliographic reports of randomized controlled trials.
- In addition to bibliographic details (author, source, year, etc.) CENTRAL records will often include an abstract (a summary of the article). They do not contain the full text of the article.
- Records are included irrespective of language or date of publication.

How can it help?

- Created from multiple sources, CENTRAL is a single searchable source for high-quality evidence, saving you time in finding the research you need.
- Ideal for anyone completing a literature review for a research article, or systematic review.
- Can help identify research gaps





CENTRAL

Includes randomized and quasi-randomized controlled trials. Other study designs registered in Clinical Trial Registries (e.g. cohort studies) are not included.

CENTRAL is comprised of records retrieved from

- PubMed/MEDLINE
- Embase
- Clinical Trial Registries
 - ClinicalTrials.gov
 - ICTRP
- CINAHL (Cumulative Index of Nursing and Allied Health) (new as of May 2020)
- Cochrane Review Groups' <u>Specialized Registers</u> which includes records identified by <u>handsearching</u> various biomedical sources.
- How is CENTRAL created?





Cochrane Clinical Answers (CCAs)

- Ideal for healthcare professionals short on time.
- Cochrane Clinical Answers use the evidence in Cochrane Reviews to provide a bite-sized answer to a specific clinical question.
- They are actionable and support point-of-care decision making.

Cochrane Clinical Answers

Question:

What are the benefits and harms of vitamin D for people with asthma?

Elie Mulhem
27 February 2023
https://doi.org/10.1002/cca.4234 🗗

Clinical Answer:

High- to moderate-certainty evidence shows that in adults and children with mild to moderate asthma, oral vitamin D does not reduce exacerbations requiring steroids or the number of people with asthma exacerbations requiring emergency department visits, hospitalizations, or both compared with placebo. Furthermore, there was little to no difference between groups in per cent of predicted forced expiratory volume in one second (FEV_1) (high-certainty evidence) or in scores on the Asthma Control Test (ACT) or the Childhood Asthma Control Test (C-ACT) (moderate-certainty evidence). Vitamin D did not increase the numbers of withdrawals from the study or serious adverse reactions from any cause. No trials reported a fatal asthma event (low-certainty evidence).





Cochrane Clinical Answers (CCAs)

- Clinical summaries on a question-and-answer format from Cochrane Reviews
- Provide the evidence at hand on key outcomes
- Make the information a clinician will be most interested in more accessible
- Aim is to use information from Cochrane Reviews to inform healthcare decisions
 - Distils the 50+ pages of a Cochrane review into 1-3 pages with interactive, hierarchical display allowing multiple levels of entry
 - Brings together key data dispersed in Cochrane Library Review:

- Population
- Intervention
- Comparison
- Outcome summary
- Quality of the evidence (Summary of findings/Risk of bias)





2 Databases by McMaster Health Forum's repositories

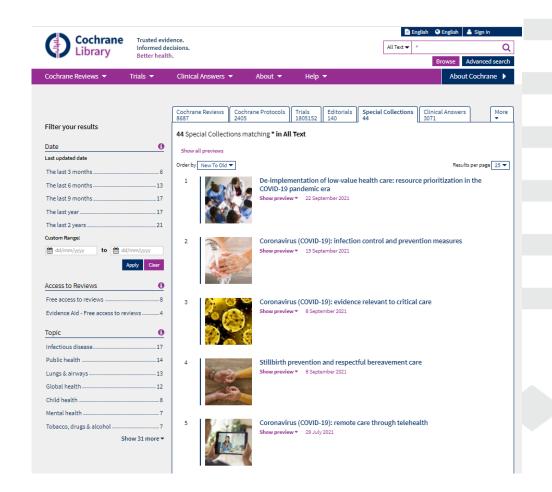
- **Health Systems Evidence** is a continuously updated repository of syntheses of research evidence about governance, financial and delivery arrangements within health systems, and about implementation strategies that can support change in health systems.
- **Social Systems Evidence** is the world's most comprehensive, continuously updated repository of syntheses of research evidence about the programs, services and products available in a broad range of government sectors and program areas (e.g., economic development, education, environmental conservation, housing,...) as well as the governance and the implementation strategies that ensure that these get to those who need them.





Special Collections

- Special Collections are curated content collections of systematic reviews on a specific healthcare topic.
- They make it easy for users to find evidence on a subject of interest.
 For example, Stopping Tobacco Use or Physical Activity for Healthy Aging.
- These appear in the search results and are linked as related content to the reviews included in the collection.







What's in the Cochrane Library

- Cochrane Database of Systematic Reviews
- Central Register of Controlled Trials (CENTRAL)
- Cochrane Clinical Answers
- Editorials
- Special Collections
- Health Systems Evidence (HSE) and Social Systems Evidence (SSE) created by McMaster's University

All content accessible through a single search





Benefits of the Cochrane Library





How can the Cochrane Library help?



Conflicting evidence from single studies



Evolving Conclusions as new discoveries are made



The credibility of sources is uncertain



Overwhelming Volume of Research



Cochrane Reviews address the balance of evidence



Cochrane Reviews are updated to incorporate new evidence



Cochrane's methods transparently rate and publish the quality of evidence, including the risk of bias



Cochrane Reviews consolidate all credible evidence on a topic into one reliable summary





Who uses the Cochrane Library?



 Use the latest evidence to support decision making and inform new guidelines and best practice



Healthcare Professionals

- Improve clinical outcomes
- Make treatment decisions based on the latest evidence
- Educate the next generation of healthcare professionals



Medical Researchers and Librarians

- Validate research hypotheses and determine the novelty of ideas
- Identify knowledge gaps that their research could address



General Public

- Debunk myths and make informed healthcare decisions
- Research and understand healthcare and treatment options





Advantages for healthcare professionals

- A trusted resource used by medical professionals and policy makers around the world
- Integrated PICO search allows you to find evidence filtered by Population, Intervention, Comparison and Outcome.
- Save time with reliable summaries of credible evidence
- Regularly updated so you can base treatment decisions on the most up-to-date evidence
- Cochrane Clinical Answers are actionable and help inform point-of-care decision-making
- **Plain language summaries** make it easy for your patients to understand the evidence supporting their treatment decisions
- 24/7 access online, on your phone, device or through your library
- Online training hub including resources and live sessions throughout the year.



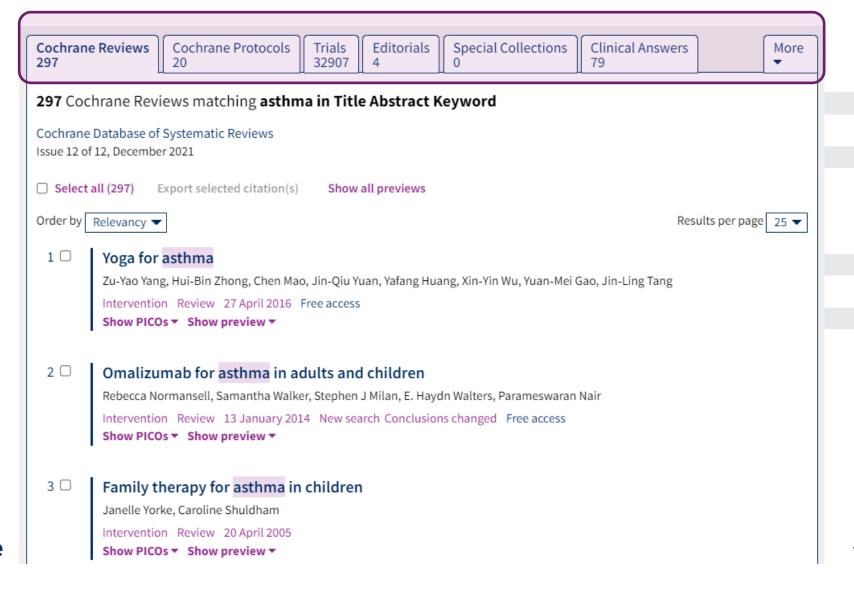


Cochrane Library: Key Features

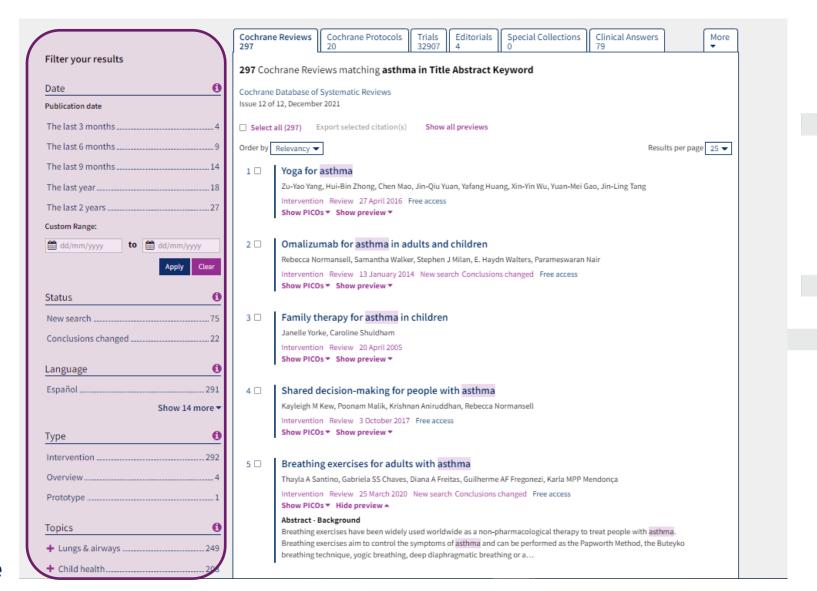




Results grouped by tabs



Use filters to find relevant results







Filters specific for Cochrane Reviews



Status	0
New search20	86
Conclusions changed 4	91

Туре)
Intervention	
Diagnostic95	
Overview44	
Methodology 36	
Qualitative4	

Date article was published online or added to the Cochrane Library

Status: Filters by events that have affected the review

Type: Used to identify the type of question addressed by the review

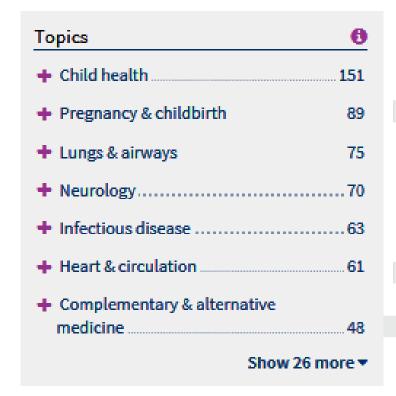




Filters for Cochrane Reviews

Language	8
Français	307
Español	241
Русский	183
Hrvatski	179
தமிழ்	116
Bahasa Malaysia	114
Deutsch	110
日本語	86
Polski	58
Português	52

Language: Identifies when translations for content are available

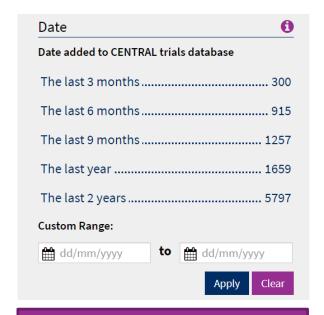


Topic: Limit results based on Cochrane supplied topics





CENTRAL-specific filters



Year	•
Year first published	
2018	2
2017	17
2016	8
2015	9
2014	12
Custom Range:	
yyyy to yyyy	

Source	0
Embase	36857
PubMed	34190
CT.gov	13929
ICTRP	11588
CINAHL	775

Date added to CENTRAL database

Publication year limit

Limits to articles sourced from PubMed, Embase, CT or WHO ICTRP





PICO terms

PICO terms now display in search results pages from all standard Cochrane searches

- Use "View PICOs" to view PICO terms in search results
- Use PICO terms in results to quickly identify patient populations and interventions you are interested in

Yoga for asthma Zu-Yao Yang, Hui-Bin Zhong, Chen Mao, Jin-Qiu Yuan, Yafang Huang, Xin-Yin Wu, Yuan-Mei Gao, Jin-Ling Tang Intervention Review 27 April 2016 Free access Show PICOs on your Hide PICOs ▲ Hide preview ▲ search results page. Faster to read than Population (4) Intervention (1) Comparison (2) Outcome (7) Adult 🖸 Yoga ☑ Usual Care ☑ Asthma Finding 🖸 an abstract! Asthma Control 🖸 Aged (65+) 다 Sham Intervention 🖸 Child 다 FEV1 🖸 Asthma 🖸 Quality of Life 🖸 Adverse Event 🖸 Medication Dose Decre...

☐ Asthma Quality of Life ... 🖸

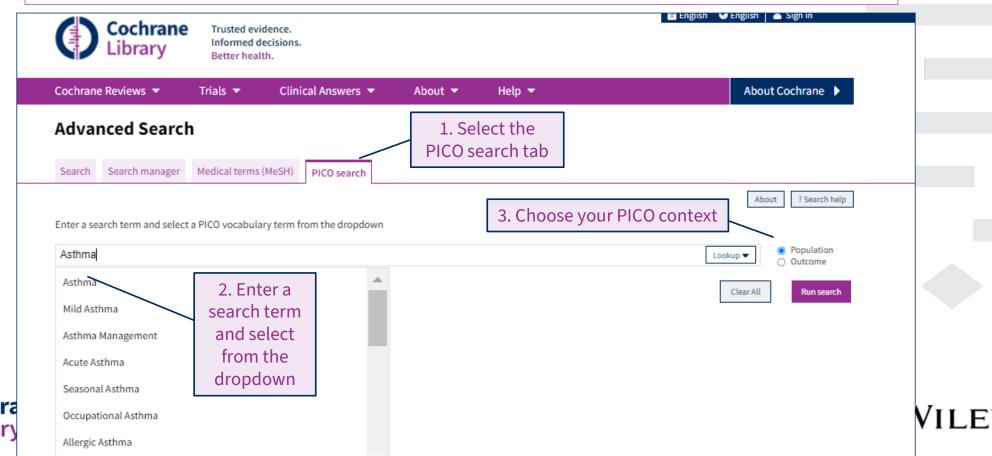




PICO search

Search Cochrane Reviews by

Population Intervention Comparison Outcome
....to find reviews that precisely match your research or clinical questions



PICO search

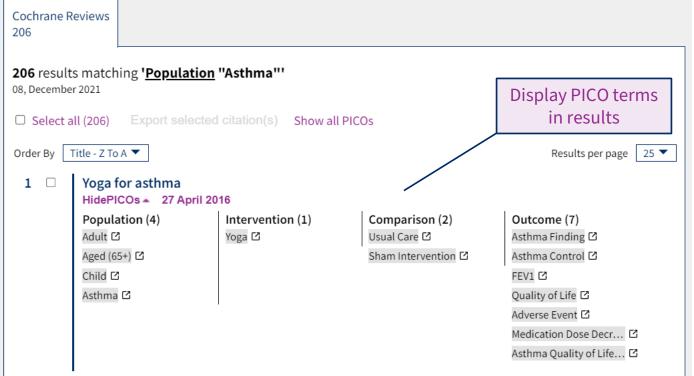
PICO search Results

- PICO based filters
- View PICO terms in results to quickly identify relevant articles

Use PICO filters to refine searches

Filter your results

Population
Condition
Asthma
Acute Asthma32
Emergency Care16
Exercise-induced Asthma7
Hospitalization5
Chronic Obstructive Pulmonary Disease 5
Hospital discharge3
Allergic Conjunctivitis3
Wheezing3
Allergic Rhinitis3
Show all







Many New Links between content

Cochrane Database of Systematic Reviews

References

Characteristics of studies



Article

Related Content



Article

How Cochrane Used this article

Cochrane Clinical Answers

Cochrane Podcasts





Objectives

To assess the effects of Ayurvedic treatments for diabetes mellitus.

Search methods

We searched *The Cochrane Library* (issue 10, 2011), MEDLINE (until 31 August 2011), EMBASE (until 31 August 2011), AMED (until 14 October 2011), the database of randomised trials from South Asia (until 14 October 2011), the database of the grey literature (OpenSigle, until 14 October 2011) and databases of ongoing trials (until 14 October 2011). In addition we performed hand searches of several journals and reference lists of potentially relevant trials.

Selection criteria

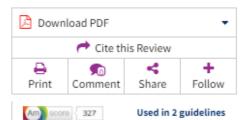
We included randomized trials of at least two months duration of Ayurvedic interventions for diabetes mellitus. Participants of both genders, all ages and any type of diabetes were included irrespective of duration of diabetes, antidiabetic treatment, comorbidity or diabetes related complications.

Data collection and analysis

Two authors independently extracted data. Risk of bias of trials was evaluated as indicated in the *Cochrane Handbook for Systematic Reviews of Intervention*.

Main results





Contents

Abstract

Plain language summary

Authors' conclusions

Summary of findings

Background

Objectives

Methods

Results

Discussion

Appendices

Figures and tables

References

Characteristics of studies

Data and analyses

Download statistical data

Related

Cochrane Clinical Answers(1)

Editorials

Podcasts

Special Collections(1)

About this Review

(i) Information

Authors ...

Version history

A Keywords

Related content

文 Translation notes





Cochrane Database of Systematic Reviews | Review - Intervention

Interventions for preventing falls in older people living in the community

Lesley D Gillespie, M Clare Robertson, William J Gillespie, Catherine Sherrington, Simon Gates, Lindy Clemson, Sarah E Lamb Authors' declarations of interest

Version published: 12 September 2012 Version history https://doi.org/10.1002/14651858.CD007146.pub3GF

Related content

Jump to: Related reviews and protocols | Podcasts | Editorials | Special Collections | Guidelines | Topics

Related reviews and protocols

Interventions for preventing falls in elderly people

Lesley D Gillespie, William J Gillespie, M Clare Robertson, Sarah E Lamb, Robert G Cumming, Brian H Rowe | 15 April 2009

Multifactorial and multiple component interventions for preventing falls in older people living in the community

Sally Hopewell, Olubusola Adedire, Bethan J Copsey, Graham J Boniface, Catherine Sherrington, Lindy Clemson, Jacqueline CT Close, Sarah E Lamb | 23 July 2018

View more *

Related Podcast

Interventions for preventing falls in older people living in the community

Editorials

Preventing falls in older people: the story of a Cochrane Review

Lesley Gillespie | 28 February 2013

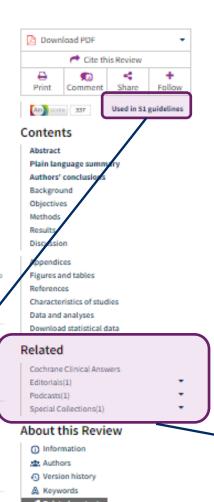
Special Collections

Preventing falls and fall-related injuries in older people 17 October 2018 Guidelines linked

✓in two places

Guidelines





文 Translation notes

Request permissions

Systematic Review LINKED CONTENT

Related Content links to
Reviews, Protocols, Podcasts,
Editorials, Collections,
Cochrane Clinical Answers,
related Cochrane reviews

WILEY



Cochrane Central Register of Controlled Trials

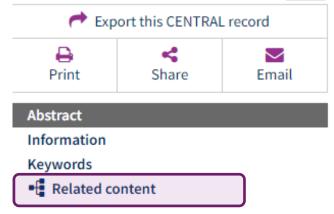
Controlled trial of antimycobacterial therapy in Crohn's disease. Clofazimine versus placebo

PubMed

Digestive diseases and sciences, 1991, 36(4), 449-453 | added to CENTRAL: 18 January 2012 Afdhal NH, Long A, Lennon J, Crowe J, O'Donoghue DP Links: PubMed 3

Abstract

In order to study the effect of clofazimine, a powerful antimycobacterial and antiinflammatory agent, 49 patients with active Crohn's disease were randomized to either corticosteroids plus clofazimine 100 mg daily (N = 25) or to steroids and matching placebo (N = 24). A total of 28 patients (58%) went into disease remission (clofazimine 16, placebo 12; P = NS) with a fall in disease activity score from 10.5 +/- 4.4 to 3.3 +/- 3.5. Patients were treated for a further eight months with clofazimine or placebo and 18 of 28 maintained their remission and completed the study (clofazimine 12, placebo 6; P = NS). Side effects were minor and consisted of skin rash and increased pigmentation. Clofazimine as a solitary antimycobacterial agent appears ineffective in inducing remission in Crohn's disease but may have a role in either disease maintenance or combination chemotherapy.



See how a CENTRAL article was used in specific Cochrane Reviews





Cochrane Database of Systematic Reviews

Anti-tuberculous therapy for maintenance of remission in Crohn's disease

Cochrane Systematic Review - Intervention | Version published: 22 July 2016 see what's new

New search Conclusions changed



View article information

Petrease H Patton | Claire E Parker | John K MacDonald | ■ Nilesh Chande

View authors' declarations of interest

Abstract available in English | Español

Background

There have been a number of studies with conflicting results which have examined the effect of anti-tuberculous therapy in Crohn's disease. A meta-analysis was performed to evaluate the use of anti-tuberculous therapy for the maintenance of remission in Crohn's disease.

Objectives

To evaluate the effects of anti-tuberculous therapy for the maintenance of remission in patients with Crohn's disease.

Select the title to link to the Cochrane Systematic Review the CENTRAL article was used in.





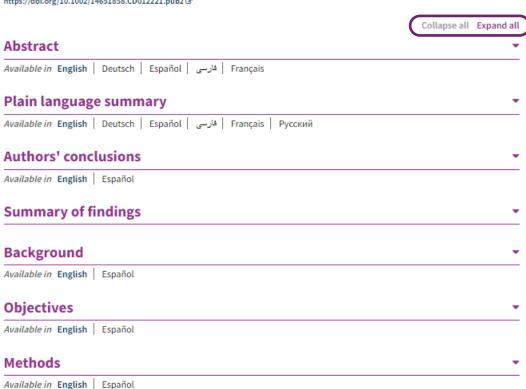
Navigation: Collapse or Expand All

Multifactorial and multiple component interventions for preventing falls in older people living in the community

Sally Hopewell, Olubusola Adedire, Bethan J Copsey, Graham J Boniface, Catherine Sherrington, Lindy Clemson, Jacqueline CT Close, Sarah E Lamb Authors' declarations of interest

Version published: 23 July 2018 Version history

https://doi.org/10.1002/14651858.CD012221.pub2 3



Collapsible sections allows users to

- Quickly navigate large reviews
- Easily identify content with translations
- Improves experience on mobile devices



Improved navigation on mobile devices





Email Alerts

Browse by Topic

Browse by Cochrane Review Group

Browse by Topic

Browse the Cochrane Reviews, Protocols and Clinical Answers.

Allergy & intolerance

Blood disorders

Cancer

Child health

Complementary & alternative medicine

Consumer & communication strategies

Dentistry & oral health

Developmental, psychosocial & learning problems

Diagnosis

n Gastroenterology & hepatology Neonatal care Genetic disorders Neurology Gynaecology Orthopaedics & trauma Health & safety at work Pain & anaesthesia Health professional education Pregnancy & childbirth **Heart & circulation** Public health Infectious disease Rheumatology Insurance medicine Skin disorders Kidney disease

Use Cochrane
assigned topics
to create alerts
to monitor
when new
Cochrane
Systematic
Reviews on that
topic are
published

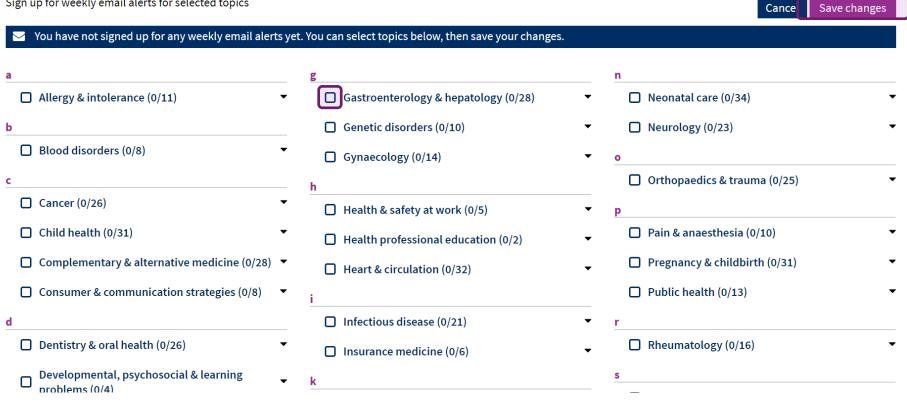




Email Alerts

Set weekly email alerts

Sign up for weekly email alerts for selected topics



Select as many fields as needed by checking the boxes

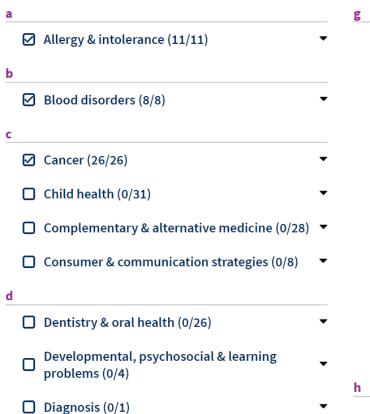




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Sign up for weekly email alerts for selected topics

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Genetic disorders (3/10)

Alpha-1 antitrypsin deficiency
Chromosome abnormalities

Congenital heart disease
Cystic fibrosis

Haemophilia & other coagulopathy
Hereditary ataxia
Inborn errors of metabolism
Other genetic disorders
Sickle cell disease
Thalassaemia
Gynaecology (0/14)

▼

✓ Health & safety at work (5/5)

Ability to select topics and subtopics by clicking the arrow





Following Reviews

Cochrane Database of Systematic Reviews Review - Intervention

Interventions for preventing falls in older people living in the community

Lesley D Gillespie, M Clare Robertson, William J Gillespie, Catherine Sherrington, Simon Gates, Lindy Clemson, Sarah E Lamb Authors' declarations of interest

Version published: 12 September 2012 Version history

https://doi.org/10.1002/14651858.CD007146.pub3 3

Collapse all Expand all

Abstract

Background

Approximately 30% of people over 65 years of age living in the community fall each year. This is an update of a Cochrane review first published in 2009.

Set up an alert to notify you when a specific systematic review is updated



Contents

Abstract

Plain language summary

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Background

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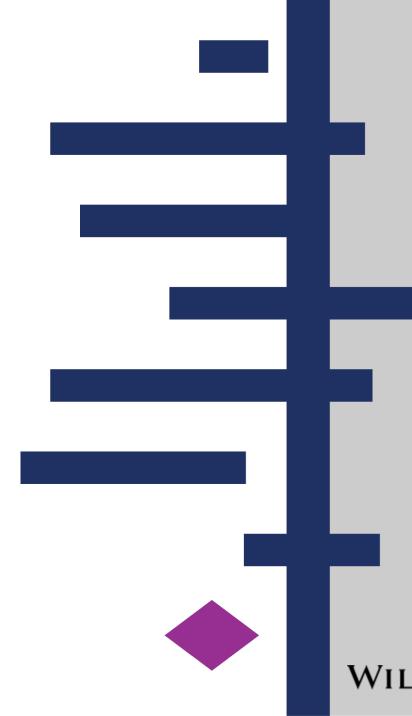
Discussion





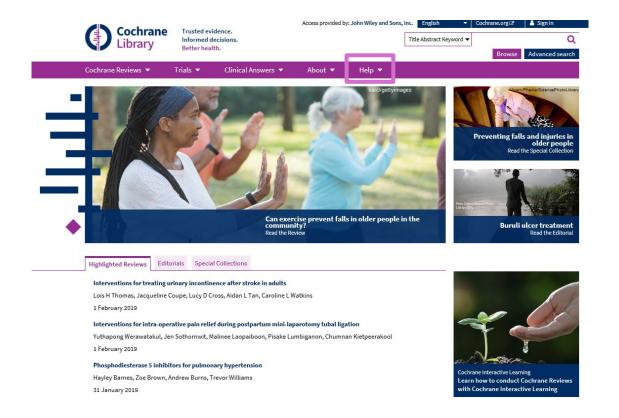
Trusted evidence. Informed decisions. Better health.

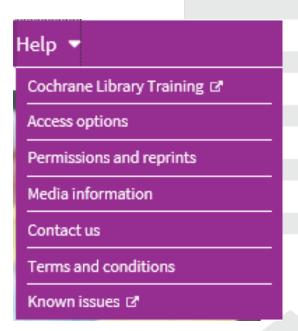
Using the Cochrane Library: Live Demo





Getting help











Cochrane Library Training Hub

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Trusted evidence. Informed decisions. Better health.

Thank you!

Questions? mhyount@wiley.com

