



Searching the Cochrane Library & PRIMSA 2020 updates

CURTIN LIBRARY

This presentation will enable you to:

- search the **Cochrane Library** with confidence to find systematic reviews in your research area.
- learn about the **2020 updates to PRISMA** (Preferred Reporting Items for Systematic reviews and Meta-Analyses).



Cochrane
Library

Searching the Cochrane Library

What we will cover

- What's in the Cochrane Library
- Site navigation
- Search options
- Training hub and resources

What is the Cochrane Library?

- Cochrane is a global network of health and social care practitioners, researchers, patient advocates and others, with a mission to promote evidence-informed decision making by producing high quality, relevant, accessible systematic reviews and other synthesized research evidence
- The group conducts [systematic reviews](#) of health-care interventions and diagnostic tests and publishes them in the [Cochrane Library](#)

What's in the Cochrane Library

- Cochrane Database of Systematic Reviews
 - + 8500 Reviews
 - + 2400 Protocols
- Central Register of Controlled Trials (CENTRAL)
 - + 1.6 million articles
- Cochrane Clinical Answers (+2200)
- Systematic Reviews from Epistemonikos (+300000)
- Editorials (+130)
- Special Collections (+30)
- Health Systems Evidence (HSE) and Social Systems Evidence (SSE) created by McMaster's Health Forum (+14000 and 4000)

Search options – browse by topic

The screenshot shows the Cochrane Library website interface. At the top left is the Cochrane Library logo with the tagline 'Trusted evidence. Informed decisions. Better health.' To the right is a search bar with a dropdown menu set to 'Title Abstract Keyword' and a search icon. Below the search bar are buttons for 'Browse' and 'Advanced search'. A navigation bar contains links for 'Cochrane Reviews', 'Trials', 'Clinical Answers', 'About', and 'Help', along with an 'About Cochrane' button. The main content area is titled 'Browse by Topic' and includes the instruction 'Browse the Cochrane Reviews, Protocols and Clinical Answers.' and a 'Set email alerts' button. The topics are organized into three columns, each starting with a letter: 'a' (Allergy & intolerance), 'b' (Blood disorders), 'c' (Cancer, Child health, Complementary & alternative medicine, Consumer & communication strategies), 'd' (Dentistry & oral health, Developmental, psychosocial & learning problems, Diagnosis), 'e' (Ear, nose & throat, Effective practice & health systems, Endocrine & metabolic, Eyes & vision), 'g' (Gastroenterology & hepatology, Genetic disorders, Gynaecology), 'h' (Health & safety at work, Health professional education, Heart & circulation), 'i' (Infectious disease, Insurance medicine), 'k' (Kidney disease), 'l' (Lungs & airways), 'm' (Mental health, Methodology), 'n' (Neonatal care, Neurology), 'o' (Orthopaedics & trauma), 'p' (Pain & anaesthesia, Pregnancy & childbirth, Public health), 'r' (Reproductive & sexual health, Rheumatology), 's' (Skin disorders), 't' (Tobacco, drugs & alcohol), 'u' (Urology), and 'w' (Wounds). At the bottom right, there is a link to 'Browse by Cochrane Review Group'.

Cochrane Library Trusted evidence. Informed decisions. Better health.

English English Sign in

Title Abstract Keyword

Cochrane Reviews Trials Clinical Answers About Help

Browse by Topic

Browse the Cochrane Reviews, Protocols and Clinical Answers.

a

- Allergy & intolerance

b

- Blood disorders

c

- Cancer
- Child health
- Complementary & alternative medicine
- Consumer & communication strategies

d

- Dentistry & oral health
- Developmental, psychosocial & learning problems
- Diagnosis

e

- Ear, nose & throat
- Effective practice & health systems
- Endocrine & metabolic
- Eyes & vision

g

- Gastroenterology & hepatology
- Genetic disorders
- Gynaecology

h

- Health & safety at work
- Health professional education
- Heart & circulation

i

- Infectious disease
- Insurance medicine

k

- Kidney disease

l

- Lungs & airways

m

- Mental health
- Methodology

n

- Neonatal care
- Neurology

o

- Orthopaedics & trauma

p

- Pain & anaesthesia
- Pregnancy & childbirth
- Public health

r

- Reproductive & sexual health
- Rheumatology

s

- Skin disorders

t

- Tobacco, drugs & alcohol

u

- Urology

w

- Wounds

...or [Browse by Cochrane Review Group](#)

Search options – browse by review group

Cochrane Reviews ▾ Trials ▾ Clinical Answers ▾ About ▾ Help ▾ [Browse](#) [Advanced Search](#)

[About Cochrane ▶](#)

Browse by Cochrane Review Group

Browse the *Cochrane Database of Systematic Reviews*

a

- Acute Respiratory Infections
- Airways
- Anaesthesia

b

- Back and Neck
- Bone, Joint and Muscle Trauma
- Breast Cancer

c

- Childhood Cancer
- Colorectal
- Common Mental Disorders
- Consumers and Communication
- Cystic Fibrosis and Genetic Disorders

d

- Dementia and Cognitive Improvement
- Developmental, Psychosocial and Learning Problems
- Drugs and Alcohol

e

- Effective Practice and Organisation of Care
- Emergency and Critical Care
- ENT
- Epilepsy
- Eyes and Vision

f

- Fertility Regulation

g

- Gut
- Gynaecological, Neuro-oncology and Orphan Cancer
- Gynaecology and Fertility

h

- Haematology
- Heart
- Hepato-Biliary
- HIV/AIDS
- Hypertension

i

- Incontinence
- Infectious Diseases
- Injuries

k

- Kidney and Transplant

l

- Lung Cancer

m

- Metabolic and Endocrine Disorders
- Methodology
- Movement Disorders
- Multiple Sclerosis and Rare Diseases of the CNS
- Musculoskeletal

n

- Neonatal
- Neuromuscular

o

- Oral Health

p

- Pain, Palliative and Supportive Care
- Pregnancy and Childbirth
- Public Health

s

- Schizophrenia
- Sexually Transmitted Infections
- Skin
- Stroke

t

- Tobacco Addiction

u

- Urology

v

- Vascular

w

- Work
- Wounds

[...or Browse by Topic](#)

Search options – search

- Search options
 - Basic search
 - Advanced search
 - MeSH
 - Search manager
 - PICO Searchbeta

Advanced Search

Search Search manager Medical terms (MeSH) PICO search^{BETA}

Save search View saved searches Search help

Did you know you can now select fields from Search manager using the **S** button (next to the search box)?
Search manager lets you add unlimited search lines, view results per line and access the MeSH browser using the new **MeSH** button.

- Title Abstract Keyword ▾ "diabetes mellitus"
- AND ▾ Title Abstract Keyword
+
x Clear all

- diabetes mellitus ketoacidosis
- diabetes mellitus type 1
- diabetes mellitus type I
- diabetes mellitus type-I

Search limits Send to search manager Run search

Use the search tab for quick and easy searching of the Cochrane Library

MeSH view

Definition

Diabetes Mellitus - A heterogeneous group of disorders characterized by HYPERGLYCEMIA and GLUCOSE INTOLERANCE.

Thesaurus Matches

- Exact Term Match**
- Diabetes Mellitus
Synonyms:
- Phrase Matches**
- Diabetes Mellitus
Synonyms:
- Diabetes Mellitus, Type 2
Synonyms: Maturity-Onset Diabetes Mellitus; Diabetes Mellitus, Maturity Onset; Diabetes Mellitus, Slow Onset; Diabetes Mellitus, Maturity-Onset; Slow-Onset Diabetes Mellitus; Diabetes Mellitus, Ketosis Resistant; Type 2 Diabetes Mellitus; Ketosis-Resistant Diabetes Mellitus; Stable Diabetes Mellitus; Diabetes Mellitus, Adult Onset; Diabetes Mellitus, Noninsulin Dependent; Diabetes

MeSH Trees

MeSH term - **Diabetes Mellitus**

Explode all trees
 Single MeSH term (unexploded)

Explode selected trees

Tree number 1

- Nutritional and Metabolic Diseases [+2]
 - Metabolic Diseases [+19]
 - Glucose Metabolism Disorders [+5]
 - Diabetes Mellitus [+8]
 - Diabetes Mellitus, Experimental
 - Diabetes Mellitus, Type 1 [+1]
 - Diabetes Mellitus, Type 2 [+1]
 - Diabetes, Gestational
 - Diabetic Ketoacidosis
 - Donohue Syndrome
 - Latent Autoimmune Diabetes in Adults
 - Prediabetic State

Search Results

There are **25903** results for your search on

- MeSH descriptor: Diabetes Mellitus
- Explode all trees

Trials	25719
Cochrane Reviews	184

Search in all trees or specific trees with or without term explosion

Search Manager: Syntax

Continued support for all existing search syntax:

- Boolean and proximity operators
- Nesting
- Stemming
- Field Labels
- Combined searches

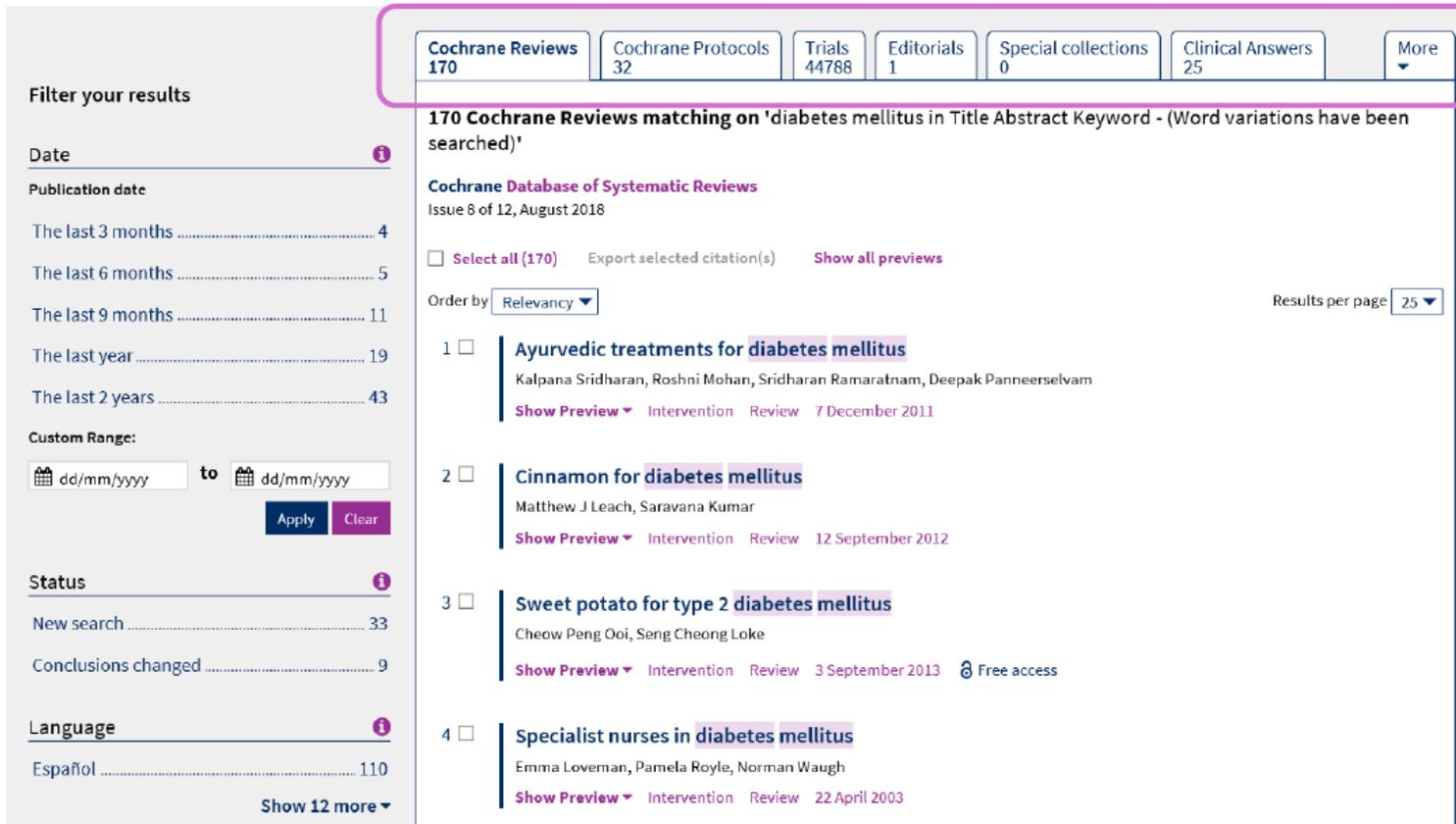
Interventions for mydriasis in cataract surgery copy 2
 Last saved on: 30/08/2018 07:34:02
 451 hits, 391 trials

[View fewer lines](#) [Print](#)

-	+	#1	MeSH descriptor: [Cataract] explode all trees	MeSH	1179	
-	+	#2	MeSH descriptor: [Cataract Extraction] explode all trees	MeSH	2550	
-	+	#3	(extract* or aspirat* or operat* or remov* or surg* or excis* or implant*) near/4 cataract*	S	MeSH	5336
-	+	#4	(extract* or aspirat* or operat* or remov* or surg* or excis* or implant* or emulsif*) near/4 lens*	S	MeSH	2924
-	+	#5	phalectom* or lensectom* or zonulolys* or cataractom*	S	MeSH	72
-	+	#6	pha?oemulsif* or (pha?o next emulsif*) or facoemulsif* or (faco next emulsif*)	S	MeSH	2556
-	+	#7	Capsulorhexis or Capsulorrhexis	S	MeSH	329
-	+	#8	{or #1-#7}	S	MeSH	6727

Click on the line count to view the results for that search line

Results: Limit by database



Filter your results

Date ⓘ

Publication date

- The last 3 months 4
- The last 6 months 5
- The last 9 months 11
- The last year 19
- The last 2 years 43

Custom Range:

dd/mm/yyyy to dd/mm/yyyy

Apply **Clear**

Status ⓘ

- New search 33
- Conclusions changed 9

Language ⓘ

- Español 110

Show 12 more ▾

Cochrane Reviews 170 | **Cochrane Protocols** 32 | **Trials** 44788 | **Editorials** 1 | **Special collections** 0 | **Clinical Answers** 25 | **More** ▾

170 Cochrane Reviews matching on 'diabetes mellitus in Title Abstract Keyword - (Word variations have been searched)'

Cochrane Database of Systematic Reviews
Issue 8 of 12, August 2018

Select all (170) Export selected citation(s) **Show all previews**

Order by: Relevancy ▾ Results per page: 25 ▾

- Ayurvedic treatments for diabetes mellitus**
Kalpana Sridharan, Roshni Mohan, Sridharan Ramaratnam, Deepak Panneerselvam
Show Preview ▾ Intervention Review 7 December 2011
- Cinnamon for diabetes mellitus**
Matthew J Leach, Saravana Kumar
Show Preview ▾ Intervention Review 12 September 2012
- Sweet potato for type 2 diabetes mellitus**
Cheow Peng Ooi, Seng Cheong Loke
Show Preview ▾ Intervention Review 3 September 2013 Free access
- Specialist nurses in diabetes mellitus**
Emma Loveman, Pamela Royle, Norman Waugh
Show Preview ▾ Intervention Review 22 April 2003

View results by product by clicking on different tabs to see reviews, protocols, trials. Clinical answers etc.

Search syntax

How to search for	Example	Use												
Automatic stemming and term variations	<i>Treat</i> finds <i>treat</i> , <i>treats</i> , <i>treated</i> and <i>treating</i> but not <i>treatment</i>	The search system performs automatic stemming of the term(s) by searching all common variants of a term based on its part of speech, eliminating the need for users to manually type these common variants. Automatic stemming can be turned on and off using the limits selection box.												
Single term	Cloning	Searches for a specific term in the article or selected fields.												
Multiple words	Diabetes mellitus	If no quotes are used, search will 'AND' terms and find articles or selected fields with both terms.												
Phrase searching	"Diabetes mellitus"	Use double quotation marks to find exact phrases. This search finds <i>diabetes mellitus</i> in the article or selected fields.												
Wildcard (or truncation; word root must be at least 3 characters)	transplant*	Use an asterisk (*) to match all terms beginning with a word root. <i>transplant*</i> finds <i>transplant</i> , <i>transplants</i> , <i>transplanting</i> , <i>transplantation</i> , and <i>transplantable</i> .												
	glycemia	Use an asterisk () at the beginning of a word to match terms with the same suffix. <i>*glycemia</i> matches <i>hyperglycemia</i> or <i>hypoglycemia</i> .												
	leuk*mia	Use an asterisk to match multiple characters within a word. <i>leuk*mia</i> finds <i>leukemia</i> and <i>leukaemia</i> .												
	wom?n	Use a question mark (?) to match a single character within a word. <i>wom?n</i> finds <i>women</i> or <i>woman</i> .												
	system?	Use a question mark (?) to match all terms with that word root and EXACTLY 1 character. <i>System?</i> finds <i>systems</i> but not <i>system</i> , <i>systematic</i> or <i>systemic</i> .												
Searching with field labels	<p>"lung cancer":ti (hearing next aid*) :kw smith:au (cancer near lung) :ti,ab,kw</p>	<p>In the 'Search manager' tab, limit to specific fields using the following field labels:</p> <table border="0"> <tr> <td>:ti (title)</td> <td>:ab (abstract)</td> <td>:kw (Keywords)</td> </tr> <tr> <td>:au (author)</td> <td>:so (source)</td> <td>:pt (Publication Type)</td> </tr> <tr> <td>:tb (tables)</td> <td>:doi (digital object identifier [DOI])</td> <td></td> </tr> <tr> <td>:an (accession number)</td> <td></td> <td></td> </tr> </table> <p>If NO field label is used, 'All text' will be searched. To search multiple fields, separate field labels using commas (:ti,ab,kw).</p>	:ti (title)	:ab (abstract)	:kw (Keywords)	:au (author)	:so (source)	:pt (Publication Type)	:tb (tables)	:doi (digital object identifier [DOI])		:an (accession number)		
:ti (title)	:ab (abstract)	:kw (Keywords)												
:au (author)	:so (source)	:pt (Publication Type)												
:tb (tables)	:doi (digital object identifier [DOI])													
:an (accession number)														
Logical operators in phrases	breastfeeding AND pre-term; smoking	To find phrases which contain a logical operator (AND, OR, NOT).												

Getting Started

User Guide

Cochrane Library User Guide

What's New in the Cochrane Library?

What's New in the Cochrane Library? (2021)

What's in the Cochrane Library?

What's in the Cochrane Library?

How to Search in the Cochrane Library

How to Search in the Cochrane Library

Becoming an Expert

Benefits for Librarians

Benefits for Healthcare Professionals

How to Use PICO Search

How to Use PICO Search

How to Get Started with PICO Search

How to Get Started with PICO Search

Other Resources

How to access Cochrane's plain language summaries

How to Access Plain Language Summaries

What is a Cochrane Clinical Answer?

What is a Cochrane Clinical Answer?

How to Apply Cochrane Clinical Answers in Working Practice

How to apply Cochrane Clinical Answers in the clinical practice

Guide to Error Messages

Cochrane Library Guide to Error Messages

Search guides, live webinars, training videos and more are available from the “Help” menu on the Cochrane Library homepage

Training links

- <https://www.wiley.com/customer-success/cochrane-library-training-hub>
 - Live training <https://secure.wiley.com/wiley-research-training-cochrane>
 - User guides e.g.
 - How to search the Cochrane Library (flipbook)
 - How to use PICO search
 - Video resources
 - Cochrane training - <https://training.cochrane.org/>



PRISMA

TRANSPARENT REPORTING OF SYSTEMATIC REVIEWS AND META-ANALYSES

The PRISMA 2020 statement: an updated guideline for reporting systematic reviews

<http://www.prisma-statement.org/>

PRISMA - what

“an evidence-based minimum set of items for reporting in systematic reviews and meta-analyses.”

HOME	PRISMA STATEMENT	EXTENSIONS	TRANSLATIONS
PRISMA Statement	PRISMA E&E	Checklist	Flow Diagram

<http://www.prisma-statement.org/>

PRISMA - why

- Clear reporting of systematic reviews enables:
 - replication of SR methods
 - assessment of the trustworthiness of SR findings
 - assessment of the applicability of findings
- PRISMA endorsement

Development of PRISMA 2020

- Replaces PRISMA 2009
- Includes new reporting guidance reflecting advances in methods to identify, select, appraise and synthesise studies

PRISMA 2020 papers

The PRISMA 2020 statement: an updated guideline for reporting systematic reviews
MetaArXiv 2020; doi: <https://doi.org/10.31222/osf.io/v7gm2> (Published 14 Sept 2020)

The PRISMA 2020 statement: An updated guideline for reporting systematic reviews
JCE 2021; 134 doi: <https://doi.org/10.1016/j.jclinepi.2021.03.001> (Published 28 Mar 2021)

PRISMA 2020 explanation and elaboration: updated guidance and exemplars for reporting systematic reviews
BMJ 2021; 372 doi: <https://doi.org/10.1136/bmj.n160> (Published 29 Mar 2021)

The PRISMA 2020 statement: an updated guideline for reporting systematic reviews
BMJ 2021; 372 doi: <https://doi.org/10.1136/bmj.n71> (Published 29 Mar 2021)

The PRISMA 2020 statement: an updated guideline for reporting systematic reviews
Systematic Reviews 2021; 10 doi: <https://doi.org/10.1186/s13643-021-01626-4> (Published 29 Mar 2021)

The PRISMA 2020 statement: An updated guideline for reporting systematic reviews
International Journal of Surgery 2021; 88 doi: <https://doi.org/10.1016/j.ijsu.2021.105906> (Published 29 Mar 2021)

Key changes in PRISMA 2020

- **Elaboration & Explanation** document extensively revised (with new examples)
- All **Checklist** items revised, and several new items and sub-items introduced
- New **Flow Diagram** templates

Key changes in PRISMA 2020

More explicit request to report:

- full search strategies for **all** databases, registers, websites
- automation tools used (eg. for study selection)
- how outcomes were defined and which results were sought
- characteristics and risk of bias among studies **contributing to each synthesis**
- protocol amendments
- conflict of interest of review authors

PRISMA Elaboration and Explanation

- Intended to enhance the use, understanding and dissemination of the PRISMA 2020 Statement
- Presents the meaning and rationale for each checklist item, and thorough examples and explanations

PRISMA 2020 explanation and elaboration: updated guidance and exemplars for reporting systematic reviews. *BMJ* 2021;372:n160. [doi: 10.1136/bmj.n160](https://doi.org/10.1136/bmj.n160)

PRISMA 2020 Checklist

- A seven section, **27-item checklist** - addressing the introduction, methods, results and discussion sections of a SR
- Also an **expanded checklist** that details reporting recommendations for each item
- PRISMA 2020 **abstract checklist**, an update of the 2013 PRISMA for Abstracts statement

<http://www.prisma-statement.org/PRISMAStatement/Checklist>

PRISMA 2020 items

Item 6 – Information sources

Specify **all databases, registers, websites, organisations, reference lists, and other sources** searched or consulted to identify studies. Specify the **date** when each source was last searched or consulted.

***Explanation:** Authors should provide a detailed description of the information sources that were searched or consulted, including the dates when each source was last searched. Authors should fully report the “what, when, and how” of the sources searched.*

PRISMA 2020 items

Item 7 – Search strategy

Present the **full search strategies** for all databases, registers, and websites, including any **filters** and **limits** used.

Explanation: *Reporting full details of all search strategies (such as the full, line by line search strategy as run in each database) should enhance transparency, improve replicability, and enable a review to be more easily updated. A description of the search strategy development process can help readers judge how far the strategy is likely to have identified all studies relevant to the inclusion criteria. The might include approaches used to identify keywords, synonyms, or subject indexing terms, or any processes used to validate or peer review the search strategies.*

PRISMA 2020 items

Item 8 – Selection process

Specify the methods used to decide whether a study met the inclusion criteria of the review, including **how many reviewers screened each record** and each report retrieved, whether they worked **independently**, and, if applicable, details of **automation tools** used in the process

***Explanation:** Study selection is typically a multi-stage process in which potentially eligible studies are first identified from screening titles and abstracts, then assessed through full text review and, where necessary, contact with study investigators. A mix of screening approaches might be applied (automation, crowdsourcing, etc). Authors should describe the process for deciding how records retrieved were considered for inclusion, to enable readers to assess potential for errors in selection.*

PRISMA 2020 items

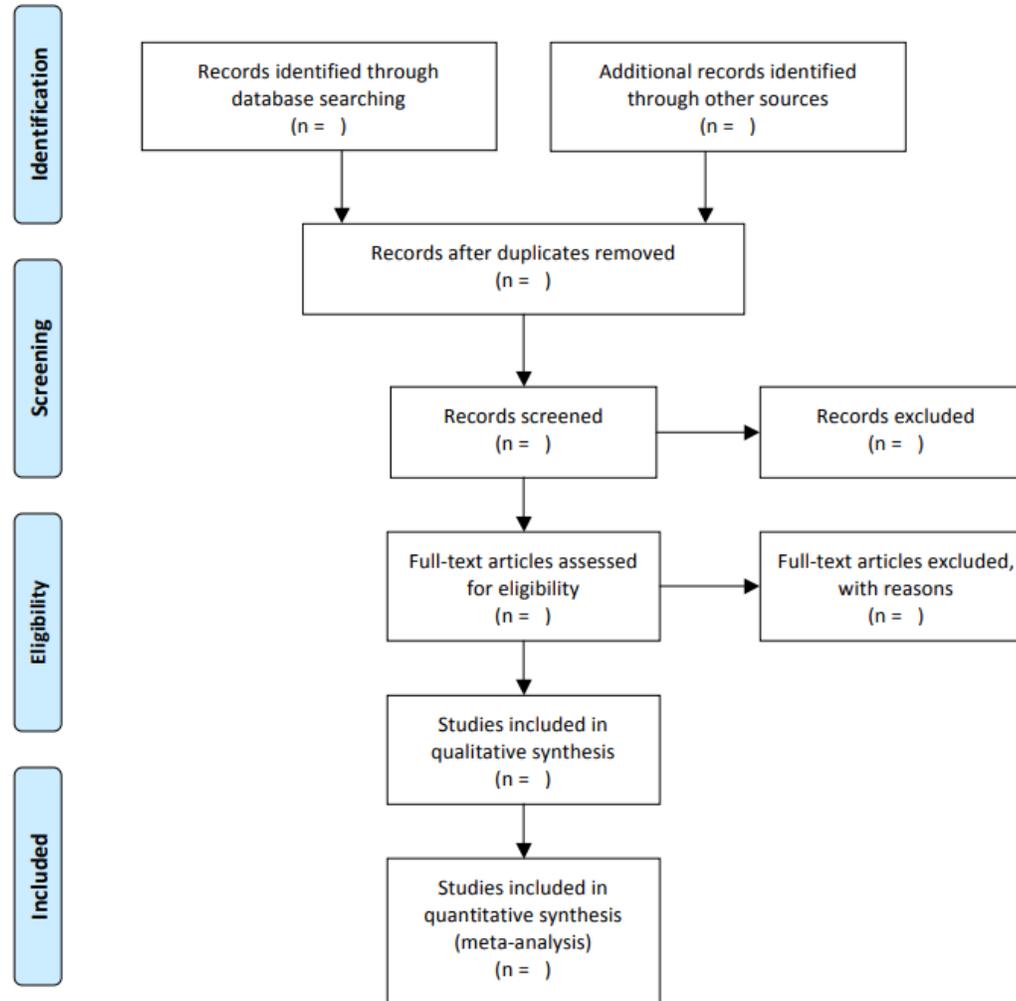
Item 16a – Flow diagram

Describe the **results of the search and selection process**, from the number of records identified in the search to the number of studies included in the review, ideally **using a flow diagram**

Explanation: Identifying the excluded records allows readers to make an assessment of the validity and applicability of the systematic review. At a minimum, a list of studies that might appear to meet the inclusion criteria but which were excluded, with citation and a reason for exclusion, should be reported. It is also useful to list studies that were potentially relevant but for which the full text or data essential to inform eligibility were not accessible.



PRISMA 2009 Flow Diagram



PRISMA 2020 Flow Diagram

What's new:

- specify number of records yielded per database
- exclusion before screening (duplicates, machine classifiers)
- reports that were not retrievable
- separation of databases/registers from other sources
- ongoing studies
- separate box to handle SR updates

<http://www.prisma-statement.org/PRISMAStatement/FlowDiagram>

PRISMA-Search extension

- An extension to the PRISMA Statement for **Reporting Literature Searches in Systematic Reviews**
- Published in 2021
- **Checklist** includes 16 reporting items, each of which is detailed with exemplar reporting and rationale
- Does not address study selection process

<http://www.prisma-statement.org/Extensions/Searching>

And Lastly

- **ShinyApps**
 - [Checklist](#) can be completed electronically and downloaded as Word or pdf doc
 - Allows [flow diagrams](#) to be produced and customised
- Purpose of guidelines is to **ensure transparency and optimal reproducibility**, and not as a tool to guide conduct or assess the quality of a search

Further help

- **Health Science Guides**
<https://libguides.library.curtin.edu.au/health-hub>
- **Diana Blackwood & Vanessa Varis,**
Faculty Librarians Health Sciences:
HS-FacultyLibrarian@curtin.edu.au
- **Library Help:**
<https://library.curtin.edu.au/help/>