

Section and Topic	<sup>Item</sup> Checklist item #	Location where item is reported
TITLE		
Title	1 Identify the report as a systematic review.	1
ABSTRACT		
Abstract	2 See the PRISMA 2020 for Abstracts checklist.	2
INTRODUCTION		
Rationale	3 Describe the rationale for the review in the context of existing knowledge.	3
Objectives	4 Provide an explicit statement of the objective(s) or question(s) the review addresses.	4
METHODS		
Eligibility criteria	5 Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	5
Information sources	<sup>6</sup> 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.	4
Search strategy	7 Present the full search strategies for all databases, registers and websites, including any filters and limits used.	4
Selection process	8 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.	5
Data collection process	9 Specify the methods used to collect data from reports, including how many reviewers collected data from each report, whether they worked independently, any processes for obtaining or confirming data from study investigators, and if applicable, details of automation tools used in the process.	6
Data items	10a List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which results to collect.	6
	<sup>10b</sup> List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	6
Study risk of bias assessment	11 Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	7
Effect measures	12 Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	7
Synthesis methods	<sup>13a</sup> Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis .	7
	13b Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	8
	<sup>13d</sup> Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	8
	13eDescribe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	8
	13fDescribe any sensitivity analyses conducted to assess robustness of the synthesized results.	8
Reporting bias assessment	14 Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	8



## PRISMA (preferred items for systematic review and meta-analysis) checklist

Section and Topic s	Item Checklist item	ocation where em is eported
RESULTS		
Study selection	15 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, 9 ideally using a flow diagram.	
Risk of bias in studies	16 Present assessments of risk of bias for each included study.	
Results of individual studies	<sup>17</sup> For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	0
Results of syntheses	18a For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	1
	<sup>18b</sup> Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	1
	18c Present results of all investigations of possible causes of heterogeneity among study results.	2
	18d Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	5
Reporting biases		6
DISCUSSION		
Discussion	20a Provide a general interpretation of the results in the context of other evidence.	7
	20b Discuss any limitations of the evidence included in the review.	7
	20cDiscuss any limitations of the review processes used.	8
-	20dDiscuss implications of the results for practice, policy, and future research.	8
OTHER INFORMATION		
Registration and	21a Provide registration information for the review, including register name and registration number, or state that the review was not registered.	9
protocol	21bIndicate where the review protocol can be accessed, or state that a protocol was not prepared.	0
	21c Describe and explain any amendments to information provided at registration or in the protocol.	0
Support	22 Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	0
Competing interests	23 Declare any competing interests of review authors.	1
Availability of data, code and other materials	24 Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data 2 used for all analyses; analytic code; any other materials used in the review.	1

For more information, visit: <u>http://www.prisma-statement.org/</u>

From: Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71