

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE	•		
Title	1	Identify the report as a systematic review.	The report is identified as a systematic review in the title
ABSTRACT	•		
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	The abstract includes the main aspects that are proposed in the PRISMA Abstracts checklist
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	This has been done in the introduction: existing literature, existing systematic reviews that focus on similar topics are mentioned, the research gap
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	This has been done in the last sentence of the introduction section
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	The inclusion and exclusion criteria are mentioned in the paragraph "Search strategy and selection criteria"
Information sources	6	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.	They are mentioned in the paragraph "Search strategy and selection criteria"
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Appendix 2
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.	This is described in the section "study selection process"
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.	This is described in the section "study selection process"
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.	This is described in the section "study selection process" and "Statistical analysis"
	10b	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.	Appendix 3
Study risk of bias	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many	The method for the risk of



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assessment		reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.	bias assessment is mentioned in the section "statistical analysis"
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.	This is mentioned in the section "statistical analysis"
Synthesis methods	13a	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 (item #5)).	This is described in the section "study selection process"
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	This is mentioned in the section "statistical analysis"
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	This is mentioned in the section "statistical analysis"
	13d	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.	This is mentioned in the section "statistical analysis"
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	NA
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	NA
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	This is mentioned in the section "statistical analysis"
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	NA
RESULTS			
Study selection	16a	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.	This is described in the section "Characteristics of Included Studies" and Figure 1
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	NA
Study characteristics	17	Cite each included study and present its characteristics.	This is described in the section "Characteristics of Included Studies"
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	This is described in the section "Characteristics of Included Studies"
Results of individual studies	19	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.	Appendix 4
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	This is described in the section "Characteristics of Included Studies"
	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and	This is described in the last



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		its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	paragraph of the section "Characteristics of Included Studies"
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	This is described in the section "Characteristics of Included Studies" and "Limitation"
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	NA
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	This is described in the last paragraph of the section "Characteristics of Included Studies"
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	NA
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	This is done in the "principal findings" section of the discussion.
	23b	Discuss any limitations of the evidence included in the review.	This is described in the "limitations" section of the article.
	23c	Discuss any limitations of the review processes used.	This is described in the "limitations" section of the article.
	23d	Discuss implications of the results for practice, policy, and future research.	This is done in the "principal findings" and "Conclusion" section of the discussion.
OTHER INFORMA	ATION		
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	This is described in the first paragraph of the section "Methods"
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	This is described in the first paragraph of the section "Methods"
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	This is described in the first paragraph of the section "Methods"
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	This is described in the section of "Acknowledgements" and "Conflicting of interests"



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Competing interests	26	Declare any competing interests of review authors.	section of "Acknowledgements" and "Conflicting of interests
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.	Appendix 1, 2, 3, 4, 5, 6

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