PRISMA 2020 Checklist

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Section Title
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Section Abstract
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Section Introduction
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Section Introduction
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Section Eligibility 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.	Section Data Search and Selection
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Section Data Search and Selection
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.	Section Data Search and Selection
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.	Section Data Extraction
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.	Section Data Extraction
	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.	Section Data Extraction
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.	Section Risk of Bias Assessment
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.	Section Data Extraction
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)).	Section Data Extraction
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Section Data Extraction
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	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.	Section Statistical Analysis
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	Section Statistical Analysis
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	Section Statistical Analysis



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Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	Section Statistical Analysis
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	Section Statistical Analysis
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.	Section Study Result Summaries
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Section Study Result Summaries
Study characteristics	17	Cite each included study and present its characteristics.	Section Study Result Summaries
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Section Study Result Summaries
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.	Table 2; Supplementary File 3
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Section Study Result Summaries
	20b	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.	Section Study Result Summaries
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	Section Study result summaries
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	Section Study Result Summaries
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Section Risk of Bias in Studies; GRADE Analysis; Leave-One-Out Sensitivity Analysis
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	Section Study Result Summaries
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Section Discussion
	23b	Discuss any limitations of the evidence included in the review.	Section Discussion
	23c	Discuss any limitations of the review processes used.	Section Discussion
	23d	Discuss implications of the results for practice, policy, and future research.	Section Discussion
OTHER INFORMATION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Section Method
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Section Method

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	24c	Describe and explain any amendments to information provided at registration or in the protocol.	N A
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Section Grant Information
Competing interests	26	Declare any competing interests of review authors.	Section Competing interest
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.	Section data avaibility

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