PRISMA 2020 Checklist

Section and Topic	Item #	Checklist item	Location where item is reported
TITLE			
Title	1	Identify the report as a systematic review.	Page1, Title
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Page 1-2, Abstract
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Pages 3-5, Introduction, paragraphs 1-5.
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 5, Introduction, final paragraph.
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Pages 6-7, Methods, 2.3 Inclusion and Exclusion Criteria; Supplementary Materials S1.
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.	Pages 5-6, Methods, 2.2 Literature Search Strategy.
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Page 6, Methods, 2.2 Literature Search Strategy; full search strategy stated as provided in the Supplementary Materials.
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.	Page 8, Results, Study selection; Figure 1.
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.	Page 7, Methods, 2.4 Data Extraction and Quality Assessment.
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.	Pages 2 and 6-7, Abstract and Methods, 2.3 Inclusion and Exclusion Criteria; Pages 9-13, Results, outcome-specific sections 3.1-3.5.
	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.	Page 7, Methods, 2.4 Data Extraction and Quality Assessment.
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.	Page 7, Methods, 2.7 Quality 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.	Page 7, Methods, 2.5 Statistical Analysis: standardized mean differences (SMDs) with 95% confidence intervals (CIs).
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)).	Pages 6-7, Methods, 2.3 Inclusion and Exclusion Criteria; Page 7, 2.5 Statistical Analysis; outcome-specific eligibility reflected in Pages 9-13, Results, sections 3.1-3.5.
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Page 7, Methods, 2.5 Statistical Analysis.

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	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Page 7, Methods, 2.5 Statistical Analysis; Figures 3-5 on Pages 14-18.
	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.	Page 7, Methods, 2.5 Statistical Analysis and 2.6 Heterogeneity and Publication Bias Assessment.
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	Page 7, Methods, 2.6 Heterogeneity and Publication Bias Assessment.
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	Page 7, Methods, 2.6 Heterogeneity and Publication Bias Assessment.
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	Page 7, Methods, 2.6 Heterogeneity and Publication Bias Assessment: funnel plots and Egger's regression test.
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	Page 9, Figure 2.
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.	Page 8, Results; Figure 1 Study flow diagram.
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Page 8, Results; Figure 1 summarizes exclusion reasons. Individual excluded studies are not cited; add if required by the journal.
Study characteristics	17	Cite each included study and present its characteristics.	Page 7, Methods, Section2.4; Page 9-13, Results, Sections 3.1-3.5; Supplementary file S2 group data.xlsx.
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Pages 8-9, Results; Figure 2 Risk of bias assessment.
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.	Page 10-13, Results, Sections 3.1-3.5; Figure 4 on Pages 15-17;Supplementary file S2 group data.xlsx.
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Page 8–9, Results, Risk of bias assessment; Figure 2. Page 9-13, Results, Sections 3.1-3.5.
	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.	Pages 9-13, Results, sections 3.1-3.5 summarize the number of RCTs, participants, and instruments; Pages 8-9 and Figure 2 report risk of bias.
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	Heterogeneity statistics were reported for each outcome on Pages 10–13, Results, Sections 3.1–3.5. Possible sources of heterogeneity were discussed on Page 24, Discussion, Strengths and Limitations

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	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	Page 7, Methods, section 2.6
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Page 7, Methods, section 2.6
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	Pages 9-13, Results, sections 3.1-3.5
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Pages 18-23, Discussion, sections 4.1-4.3.
	23b	Discuss any limitations of the evidence included in the review.	Page 24, Discussion, 4.4 Strengths and Limitations.
	23c	Discuss any limitations of the review processes used.	Page 24, Discussion, 4.4 Strengths and Limitations.
	23d	Discuss implications of the results for practice, policy, and future research.	Pages 22-25, Discussion and 5. Conclusions and future perspectives.
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.	Page 5, Methods, 2.1 Study Design.
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Page 5, Methods.
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	No amendments.
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Page 25, Funding.
Competing interests	26	Declare any competing interests of review authors.	Page 25, Conflicts of 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.	Pages 25-26, Data availability.

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