

PRISMA 2020 Checklist

Section and Topic	Item No	Checklist item	Reported on Page Number/Line Number	Reported on Section/Paragraph
TITLE				
Title	1	Identify the report as a systematic review.	Page 1	Title
ABSTRACT				
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Page 1	Abstract
INTRODUCTION				
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Pages 1–3	Section 1, Introduction
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 3	Section 1.1; Table 4 (RQs)
METHODS				
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Page 18	Section 4.4; Table 7
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.	Page 17	Section 4.3; Table 5
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Page 17	Table 6 (keywords/search strings)
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.	Pages 18–19	Section 4.4–4.5; Fig. 6
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 19	Section 4.6 (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.	Pages 20–38	Section 5 (RQ1–RQ5)
	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 5	Section 5 (RQ1–RQ5)
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 19	Section 4.5; Table 8 (quality scoring)
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 5	Section 5 (narrative synthesis)
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)).	Page 18	Section 4.4 (screening)

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	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Page 19	Section 4.6 (Data Extraction)
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Section 5	Tables 9–13; Figures
	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 5	Section 5 (narrative synthesis)
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	N/A	Not applicable (narrative SLR)
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	N/A	Not applicable
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 19	Section 4.5 (quality assessment)
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	N/A	Not applicable
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 21	Fig. 6 (PRISMA flow)
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Page 18	Section 4.4
Study characteristics	17	Cite each included study and present its characteristics.	Section 5; Table 12	Section 5; Table 12 (datasets)
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Page 19	Section 4.5; Table 8
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 29	Table 10 (cross-study accuracy)
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Section 5	Section 5 (RQ1–RQ5)
	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 5	Section 5; Tables 9–13
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	N/A	Not applicable
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	N/A	Not applicable
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Pages 27–28	Section 5.1.11 (overfitting risk)
Certainty of	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	N/A	Not applicable

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evidence				
DISCUSSION				
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Pages 35–40	Sections 5–6
	23b	Discuss any limitations of the evidence included in the review.	Pages 27–28, 35	Section 5.1.11; Section 5.4
	23c	Discuss any limitations of the review processes used.	Page 38	Section 6 (Research Gaps)
	23d	Discuss implications of the results for practice, policy, and future research.	Pages 38–40	Section 6 (Future Directions)
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.	N/A	Not registered
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	N/A	Not applicable
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	N/A	Not applicable
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 40	Funding statement
Competing interests	26	Declare any competing interests of review authors.	Page 41	Competing 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.	Page 40	Data Availability Statement

*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copyediting and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.