

## PRISMA 2020 Checklist

Section and Topic	Item No	Checklist item	Reported on Page Number/Line Number	Reported on Section/Paragraph
<b>TITLE</b>				
Title	1	Identify the report as a systematic review.	p.1	Title: under the REVIEW sign
<b>ABSTRACT</b>				
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	p.1/1-19	ABSTRACT
<b>INTRODUCTION</b>				
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	pp.1-3/22-70	Sec. 1/Introduction
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	pp.4-5/125-136	Sec. 4.1/Research questions
<b>METHODS</b>				
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	pp.6-7/160-200	Sec. 4.4/Selection and rejection 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.	p.7/208-212 p.35/1140-	Sec.4.5/Information sources and access points  Appendix A/Table A1
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	pp.7-9/201-256  pp.35-36/1141-1159	Sec. 4.5/Query formulation and keyword filters., Limits and record management, Filtering workflow.  Sec 4.6/Study selection procedure  Sec. 4.7/Data extraction and coding protocol  Figure2  Appendix A.2/Concrete query strings and keyword filters

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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.	p.8/242-247	Sec.4.6/Study selection procedure
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.	p.4/110-119 p.8/248-256 p.34/1127-1135 pp.38-39/1178-1191	Sec.3/Data extraction and integration  Sec.4.7/Data extraction and coding protocol  Author contributions  Appendix C/Data extraction template and codebook
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.	pp.10-24/282-762 p. 25/776	Sec.5/Results Table 9
	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.	pp.5-9/137-256 p.38/1179 p.38/1179	Sec.4.2-4.7/Classification framework, Preliminary protocol setup, Selection and rejection criteria, Search process, Study selection procedure, Data extraction and coding protocol  Appendix C.1/Extraction form  Table A4
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.	[Partial mentioned] pp.9-10/257-281	[Partial mentioned] Sec.4.8/ Quality appraisal and risk of bias assessment

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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.	pp.29-30/952-976	Sec.6.4/ Quantitative synthesis of reported performance gains
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)).	pp.6-7/160-200  p.8/242-247  p.8/248-256	Sec.4.4/ Selection and rejection criteria  Sec. 4.6 Study selection procedure  Sec.4.7/ Data extraction and coding protocol
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	pp.6-7/160-200  p.8/248-256  pp.9-10/257-281	Sec.4.4/ Selection and rejection criteria  Sec.4.7/ Data extraction and coding protocol  Sec. 4.8 /Quality appraisal and risk of bias
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	p.2/29 p.4/104 p.5/127 p.8/256 p.12/352 p.13/375 p.15/432 p.17/495 p.19/557 p.21/626 p.25/776	Figure1 Figure2 Table 1-9
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was	p.8/248-256	Sec.4.7/ Data

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		performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	pp.10-24/282-762	extraction and coding protocol  Sec.5/Results
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	pp.10-24/282-762	Sec. 5/Results
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	pp.9-10/257-281  p.31/1005-1018	Sec. 4.8 /Quality appraisal and risk of bias  Sec. 6.6/ User-centric and interactive evaluation limitations
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	No formal methods are implemented to assess the risk of bias due to missing results arising from reporting biases. Publication bias or selective outcome reporting is not quantitatively or qualitatively evaluated in this review.	No formal methods are implemented to assess the risk of bias due to missing results arising from reporting biases. Publication bias or selective outcome reporting is not quantitatively or qualitatively evaluated in this review.
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	No structured or standardized approach is used to evaluate the certainty or overall confidence in the evidence for each outcome.	No structured or standardized approach is used to evaluate the certainty or overall confidence in the evidence for each outcome.
<b>RESULTS</b>				
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.	p.9/256  pp.6-7/160-200	Figure 2/PRISMA flow diagram

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				Sec.4.4/ Selection and rejection criteria
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	pp.6-7/160-200  p.8/242-247	Sec.4.4/ Selection and rejection criteria  Sec. 4.6 Study selection procedure
Study characteristics	17	Cite each included study and present its characteristics.	pp.10-24/282-762  p.12/352 p.13/375 p.15/432 p.17/495 p.25/776	Sec.5/Results Table 3-6, 9
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	pp.9-10/257-281	Sec. 4.8 – Quality Appraisal and 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.	pp.10-24/282-762  p.12/352 p.13/375 p.15/432 p.17/495 p.25/776  pp.29-30/952-976	Sec.5/Results  Table 3-6, 9  Sec.6.4/ Quantitative synthesis of reported performance gains
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	pp.9-10/257-281	Sec. 4.8 – Quality Appraisal and Risk of Bias Assessment

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	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.	pp.10-24/282-762	Sec.5/Results
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	pp.10-24/282-762	Sec.5/Results
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	pp.9-10/257-281	Sec. 4.8 – Quality Appraisal and Risk of Bias Assessment
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	No formal methods are implemented to assess the risk of bias due to missing results arising from reporting biases. Publication bias or selective outcome reporting is not quantitatively or qualitatively evaluated in this review.	No formal methods are implemented to assess the risk of bias due to missing results arising from reporting biases. Publication bias or selective outcome reporting is not quantitatively or qualitatively evaluated in this review.
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	No formal assessment of the certainty or confidence in the body of evidence is conducted for the outcomes assessed in this review.	No formal assessment of the certainty or confidence in the body of evidence is conducted for the outcomes assessed in this review.
<b>DISCUSSION</b>				
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	pp.24-26/763-832	Sec.6/Discussion
	23b	Discuss any limitations of the evidence included in the review.	pp.24-26/763-832  p.33/1083-1097	Sec.6/Discussion  Sec.8/Research limitations
	23c	Discuss any limitations of the review processes used.	p.33/1083-1097	Sec.8/Research limitations

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	23d	Discuss implications of the results for practice, policy, and future research.	p.32/1041-1082	Sec.7/Future research directions
<b>OTHER INFORMATION</b>				
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 systematic review was not registered in any public registry.	This systematic review was not registered in any public registry.
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	The review protocol was not prepared prior to conducting this study. Therefore, no protocol is available for access.	The review protocol was not prepared prior to conducting this study. Therefore, no protocol is available for access.
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	No amendments were made to the protocol or registration information.	No amendments were made to the protocol or registration information.
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	pp.33-34/1121-1126	Acknowledgement
Competing interests	26	Declare any competing interests of review authors.	The authors declare that there are no financial or non-financial competing interests related to this review.	The authors declare that there are no financial or non-financial competing interests related to this review.
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.	pp.35-39/1137-1191	Appendix A-C

\*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.