PRISMA 2020 Checklist

Section/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.	Page1 / Line 1-2	Title
ABSTRACT				
Abstract	2	See the PRISMA 2020 for Abstracts checklist (Table 2).	Page 2-3/ Line 24-51	Abstract
INTRODUCTION				
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Page 5/Line 80-93	Introduction
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 6/Line 95-99	Introduction
METHODS				
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Page 6/Line 110-115	Method/Study selection
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 7/Line 120-123	Methods/Search strategy
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Page 1/ Line 4-8	Supplementary appendix/S1. Search strategy
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 7/Line 123-126	Methods/search strategy
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/Line 123-126	Methods/search strategy

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.	Page 6/Line 114	Methods/Study selelction
	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 6/Line 112-113	Methods/Study selection

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/Line 129-132	Methods/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.	Page7-8/Line 135-137	Methods/Statistical analysis
Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis.	Page 6/Line 110-115	Methods/study selection
	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Page 8/Line 134-137	Methods/Statistical analysis
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Page 8/Line 137-140	Methods/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.	Page 8/Line 137-140	Methods/Statistical analysis
	13e	Describe any methods used to explore possible causes of heterogeneity among study results.	Page 8/Line 137-140	Methods/Statistical analysis
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	Page 8/Line 137-140	Methods/Statistical analysis
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/Line 129-132	Methods/Risk of bias assessment
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	Page 8/Line 137-138	Methods/Certainty of evidence
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 /Line 145-147	Results
	16b	Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded.	Page 8/Line 145-147	Results
Study characteristics	17	Cite each included study and present its characteristics.	Page 8/Line147-155	Results
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Page 9/Line 158-160	Results/Risk of bias
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 8/Line 152-155	Results

Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Page 19-25/Line 367-370	Table 1
	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.	Page 9/Line 164-172	Results/Mortality
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	Page 9/Line 164-172	Results/Mortality
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	Page 9/Line 164-172	Results/Mortality
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Page 9/Line 160-161	Results/Risk of bias
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	Page 9/Line 175-176	Results/Quality of evidence
DISCUSSION				
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Page10/Line 179-186	Discussion

	23b	Discuss any limitations of the evidence included in the review.	Page 12/Line 231-232	Discussion
	23c	Discuss any limitations of the review processes used.	Page 12/Line 232-237	Discussion
	23d	Discuss implications of the results for practice, policy, and future research.	Page 12/Line 237-241	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.	Page 6/ Line 105-107	Methods
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Page 6/ Line 105-107	Methods
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	Page 6/ Line 105-107	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.	Page 14/Line 259	Acknowledgements
Competing interests	26	Declare any competing interests of review authors.	Page 14/Line263-264	Footnote
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 7/Line123-126	Methods/search strategy

Table 2 PRISMA 2020 for Abstracts checklist

Section/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.	Page1 / Line 1-2	Title
BACKGROUND				
Objectives	2	Provide an explicit statement of the main objective(s) or question(s) the review addresses.	Page 2/Line 25-28	Abstract
METHODS				
Eligibility criteria	3	Specify the inclusion and exclusion criteria for the review.	Page 2/Line31-32	Abstrat/Methods
Information sources	4	Specify the information sources (e.g. databases, registers) used to identify studies and the date when each was last searched.	Page 2/Line32-33	Abstract/Methods
Risk of bias	5	Specify the methods used to assess risk of bias in the included studies.	Page 2/Line33-34	Abstract/Methods
Synthesis of results	6	Specify the methods used to present and synthesize results.	Page 2/Line 34-35	Abstract/Methods
RESULTS				
Included studies	7	Give the total number of included studies and participants and summarise relevant characteristics of studies.	Page 2/Line 37	Abstract/Result
Synthesis of results	8	Present results for main outcomes, preferably indicating the number of included studies and participants for each. If meta-analysis was done, report the summary estimate and confidence/credible interval. If comparing groups, indicate the direction of the effect (i.e. which group is favoured).	Page2-3/Line37-47	Abstract/Result
DISCUSSION				
Limitations of evidence	9	Provide a brief summary of the limitations of the evidence included in the review (e.g. study risk of bias, inconsistency and imprecision).	N/A	N/A
Interpretation	10	Provide a general interpretation of the results and important implications.	Page3/Line49-51	Abstract/Conclusion

OTHER				
Funding	11	Specify the primary source of funding for the review.	Page 13/Line 259	Acknowledgements
Registration	12	Provide the register name and registration number.	Page 3/ Line 52-53	Abstract/Systematic review registration

*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.