

Section/topic	ltem No	Checklist item	Reported on Page Number/Line Number	Reported on Section/Paragraph
TITLE	·			·
Title	1	Identify the report as a systematic review.	Page1/I i ne2–3	Title
ABSTRACT			<u>`</u>	
Abstract	2	See the PRISMA 2020 for Abstracts checklist (Table 2).	Page1–2/I i ne27–55	Abstract
INTRODUCTION			·	
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Page3-4/I i ne83-105	l ntro/para1
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page4/I i ne107–119	l ntro/para2
METHODS				
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Page4–5/I i ne125–144	Net hos/par a2–3
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.	Page4/I i ne122–124	Net hods/par a1
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Page3/I i ne122–124	Net hods/par a1
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.	Page4–5/I i ne125–154	Met hods/par a2-4
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.	Page4–6/I i ne125–168	Met hods/par a2–5
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.	Page5–6/I i ne157–168	Met hods/par a5
	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.	Page56/I i ne157168	Net hods/par a5

assessment         in         how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.         Page5-6/i i ne157-168         Methods/parial Methods/parial           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.         Page5-6/i i ne156-134         Methods/parial           Synthesis methods         13a         Describe the processes used to decide which studies were eligible for each synthesis.         Page6-6/i i ne170-181         Methods/parial           13b         Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.         Page6/i i ne170-181         Methods/parial           13c         Describe any methods used to tabulate or visually display results of individual studies and syntheses.         Page6/i i ne170-181         Methods/parial           13c         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.         Page6/i i ne170-181         Methods/parial           13d         Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biase.         Page6/i i ne170-181         Methods/parial           13d         Describe any metho					
Encommendation         Instruction of results         Describe the processes used to decide which studies were eligible for each synthesis.         Page4-5/11 net26-134         Mthods/page           Synthesis methods         13a         Describe the processes used to decide which studies were eligible for each synthesis.         Page6/11 net70-181         Mthods/page           13b         Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.         Page6/11 net70-181         Mthods/pare           13c         Describe any methods used to abulate or visually display results of individual studies and syntheses.         Page6/11 net70-181         Mthods/pare           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.         Mthods/pare           13d         Describe any methods used to explore possible causes of heterogeneity among study results.         Page6/11 net70-181         Mthods/pare           13f         Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).         Page6/11 net70-181         Mthods/pare           assessment         14         Describe any methods used to assess creatinty (or confidence) in the body of evidence for an outcome.         Page6/11 net70-181         Mthods/pare	-	11	how many reviewers assessed each study and whether they worked independently, and if applicable, details of	Page5–6/I i ne157–168	Methods/para5
Image: summary statistics, or data conversions.         Page6/line170-181         Methods/para           13b         Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.         Page6/line170-181         Methods/para           13c         Describe any methods used to tabulate or visually display results of individual studies and syntheses.         Page6/line170-181         Methods/para           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.         Page6/line170-181         Methods/para           13e         Describe any methods used to explore possible causes of heterogeneity among study results.         Page6/line170-181         Methods/para           13e         Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).         Page6/line170-181         Methods/para           assessment         14         Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.         Page6/line170-181         Methods/para           Reporting bias assessment         15         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.         Page6/line184-188	Effect measures	12		Page56/I i ne157168	Met hods/par a5
Income         Describe any methods used to abulate or visually display results of individual studies and syntheses.         Page6/1 ine170-181         Methods/particity           13d         Describe any methods used to abulate or visually display results of individual studies and syntheses.         Page6/1 ine170-181         Methods/particity           13d         Describe any methods used to explore possible causes of heterogeneity among study results.         Page6/1 ine170-181         Methods/particity           13e         Describe any methods used to explore possible causes of heterogeneity among study results.         Page6/1 ine170-181         Methods/particity           13e         Describe any methods used to explore possible causes of heterogeneity among study results.         Page6/1 ine170-181         Methods/particity           13f         Describe any methods used to explore possible causes of heterogeneity among study results.         Page6/1 ine170-181         Methods/particity           13f         Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).         Page6/1 ine170-181         Methods/particity           assessment         15         Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.         Page6/1 ine170-181         Methods/particity           RESULTS         Study selection         16a         Describe the results of the search and selection process, from the number of records identified in t	Synthesis methods	13a	Describe the processes used to decide which studies were eligible for each synthesis.	Page45/I i ne126134	Met hods/paga2
Image: constraint 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.       Page6/1 i nel184-188       Pesul ts/par a         Study       16b       Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded.       Page6/1 i nel184-188       Pesul ts/par a         Study       17       Cite acto included study and present its characteristics.       Page6/1 i nel184-188       Pesul ts/par a         Characteristics       17       Cite acto included study and present its characteristics.       Page6/1 i nel184-188       Pesul ts/par a		13b		Page6/I i ne170–181	Met hods/par a6
100       Describe the model(s), methods used to symmoly to be a rational for the biolog(). If milde analysis has performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.       13e       Describe any methods used to explore possible causes of heterogeneity among study results.       Page6/1 i ne170-181       Methods/part Methods performed, describe any methods used to explore possible causes of heterogeneity among study results.       Page6/1 i ne170-181       Methods/part Methods performed, describe any methods used to explore possible causes of heterogeneity among study results.       Page6/1 i ne170-181       Methods/part Methods performed, describe any methods used to assess robustness of the synthesized results.       Page6/1 i ne170-181       Methods/part Methods performed, describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).       Page6/1 i ne170-181       Methods/part M		13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Page6/I i ne170–181	Met hods/par a6
Interface       Describe any methods used to assess robustness of the synthesized results.       Page6/I i ne170-181       Methods/particulation         Reporting bias assessment       14       Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).       Page6/I i ne170-181       Methods/particulation         Certainty assessment       15       Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.       Page5-6/I i ne156-181       Methods/particulation         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.       Page6/I i ne184-188       Pesul t s/particulation         16b       Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded.       Page6/I i ne190-195       Pesul t s/particulation         Study characteristics       17       Cite each included study and present its characteristics.       Page6/I i ne190-195       Pesul t s/particulation		13d	performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and	Page6/I i ne170–181	Methods/para6
Reporting bias assessment       14       Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).       Page6/I i ne170-181       Methods/particular         Certainty assessment       15       Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.       Page5-6/I i ne156-181       Methods/particular         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.       Page6/I i ne184-188       Pesul ts/particular         16b       Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded.       Page6/I i ne190-195       Pesul ts/particular         Study characteristics       17       Cite each included study and present its characteristics.       Page6/I i ne190-195       Pesul ts/particular		13e	Describe any methods used to explore possible causes of heterogeneity among study results.	Page6/I i ne170–181	Met hods/par a6
Integrating bias       Integrat       Integrating bias       Integra		13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	Page6/I i ne170–181	Met hods/par a6
Iteration       Describe any methods does to does out any (or connection in the body of evidence for an outcome.       Iteration       Iteration         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.       Page6/l i ne184–188       Pesul t s/para         16b       Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded.       Page6/l i ne184–188       Pesul t s/para         Study characteristics       17       Cite each included study and present its characteristics.       Page6/l i ne190–195       Pesul t s/para		14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).	Page6/I i ne170–181	Net hods/par a6
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.       Page6/I i ne184–188       Pesult s/parts         16b       Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded.       Page6/I i ne184–188       Pesult s/parts         Study characteristics       17       Cite each included study and present its characteristics.       Page6/I i ne190–195       Pesult s/parts	2	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	Page5–6/I i ne156–181	Met hods/par a5–6
Index       Describe the results of the scalent and screeterin process, norm the number of records identified in the scalent of the number of studies included in the review, ideally using a flow diagram.       Page6/l i ne184–188       Pesult s/para         16b       Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded.       Page6/l i ne184–188       Pesult s/para         Study characteristics       17       Cite each included study and present its characteristics.       Page6/l i ne190–195       Pesult s/para	RESULTS				·
Study characteristics       17       Cite each included study and present its characteristics.       Page6/l i ne190–195       Pesul ts/para	Study selection	16a		Page6/I i ne184–188	Results/para1
characteristics		16b	Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded.	Page6/I i ne184–188	Results/para1
Diak of higg in 18 Propert approximate of risk of higg for each included study.	,	17	Cite each included study and present its characteristics.	Page6/I i ne190–195	Results/para2
studies in the present assessments of hisk of blas for each included study.	Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Page6/I i ne190–195	Results/para2
Results of individual studies of estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.		19		Page68/I i ne198255	Results/para3-8

Results of	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Page6–8/I i ne198–255	Results/para3-8
syntheses	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.	Page68/I i ne198255	Pesults/para3–8
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	Page68/I i ne198255	Results/para3-8
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	Page68/I i ne198255	Results/para3-8
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Page68/I i ne182261	Results/para1-9
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	Page68/I i ne198255	Pesults/para3-8
DISCUSSION				-
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Page8–10/I i ne263–313	Di scussi on/para1-2
	23b	Discuss any limitations of the evidence included in the review.	Page8–10/I i ne263–313	Di scussi on/para1–2
	23c	Discuss any limitations of the review processes used.	Page8–10/I i ne263–313	Di scussi on/para1–2
	23d	Discuss implications of the results for practice, policy, and future reseResults/para3-8arch.	Page8–10/I i ne263–313	Di scussi on/para1-2
OTHER INFORMAT	ION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Page4/I i ne122–124	Net hods/Par a1
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Page4/I i ne122–124	Met hods/Par a1
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	Page4/I i ne122–124	Met hods/Par a1
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Page10/I i ne325–326	Fundi ng
Competing interests	26	Declare any competing interests of review authors.	Page10/I i ne329	Conflict of Interes
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.	N∕A	N/A

## Table 2 PRISMA 2020 for Abstracts checklist

Section/topic	ltem No	Checklist item	Reported on Page Number/Line Number	Reported on Section/Paragraph
TITLE				
Title	1	Identify the report as a systematic review.	Page1/I i ne2–3	Title
BACKGROUND				
Objectives	2	Provide an explicit statement of the main objective(s) or question(s) the review addresses.	Page1–2/I i ne28–34	Abstract/para1
METHODS				
Eligibility criteria	3	Specify the inclusion and exclusion criteria for the review.	Page2/I i ne35–40	Abstract/para2
Information sources	4	Specify the information sources (e.g. databases, registers) used to identify studies and the date when each was last searched.	Page2/I i ne35-40	Abstract/para2
Risk of bias	5	Specify the methods used to assess risk of bias in the included studies.	Page2/I i ne35–40	Abstract/para2
Synthesis of results	6	Specify the methods used to present and synthesize results.	Page2/I i ne35-40	Abstract/para2
RESULTS				
Included studies	7	Give the total number of included studies and participants and summarise relevant characteristics of studies.	Page2/I i ne41–52	Abstract/para3
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/I i ne41–52	Abstract/para3
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).	Page2/I i ne53–55	Abstract/para4
Interpretation	10	Provide a general interpretation of the results and important implications.	Page2/I i ne53–55	Abstract/para4
OTHER				
Funding	11	Specify the primary source of funding for the review.	N/A	N/A
Registration	12	Provide the register name and registration number.	N∕A	N/A

Article information: https://dx.doi.org/10.21037/jtd-23-651 \*As the checklist was provided upon initial submission, the page number/line number reported may be changed due to copy editing and may not be referable in the published version. In this case, the section/paragraph may be used as an alternative reference.