

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/line1-3	title
ABSTRACT				
Abstract	2	See the PRISMA 2020 for Abstracts checklist (Table 2).	page1-2/line19-35	abstract/Paragraph 1-4
INTRODUCTION				
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	page2-3/line39-104	introduction/paragraph1
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	page3/line105-130	introduction/paragraph2
METHODS				
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	page3-4/line155-196	methods/paragraph2-3
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.	page3/line135-154	methods/paragraph1
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	age3/line135-154	methods/paragraph1
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/line197-233	methods/paragraph4-5
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/line197-233	methods/paragraph4-5
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.	page4/line211-233	methods/paragraph5
	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.	page4/line211-233	methods/paragraph5

Study risk of bias assessment11Specify 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	page4-5/line224-276	methods/paragraph6
automation tools used in the process.		
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.	tion page4-5/line224-276	methods/paragraph6
Synthesis methods 13a Describe the processes used to decide which studies were eligible for each synthesis.	page5/line277-296	methods/paragraph7
13bDescribe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	page5/line277-296	methods/paragraph7
13c Describe any methods used to tabulate or visually display results of individual studies and syntheses.	page5/line277-296	methods/paragraph7
13dDescribe 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.	page5/line277-296	methods/paragraph7
13e Describe any methods used to explore possible causes of heterogeneity among study results.	page5/line277-296	methods/paragraph7
13f Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	page5/line277-296	methods/paragraph7
Reporting bias 14 Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting bias) assessment 14	ses). page5/line277-296	methods/paragraph7
Certainty 15 Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome. assessment 15	page5/line277-296	methods/paragraph7
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.	e page5/line298-311	results/paragraph1,figure1,t able1
16b Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded.	page5/line277-296	results/paragraph1
Study characteristics 17 Cite each included study and present its characteristics.	page12-13/line704	table1
Risk of bias in studies 18 Present assessments of risk of bias for each included study.	page5/line312-319	results/paragraph2,figure2- 3
Results of 19 For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect individual studies estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	ect page11/line692-695	results/figure2-3

Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	page5-6/line320-368	results/paragraph3-5
	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.	page6/line345-368	results/paragraph4,5
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	page6/line345-368	results/paragraph4,5
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	page6/line345-368	results/paragraph4,5
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	page6/line345-368	results/paragraph4,5
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	page6/line345-368	results/paragraph4,5
DISCUSSION				
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	page6-7/line395-456	discussion/paragraph2,3
	23b	Discuss any limitations of the evidence included in the review.	page7/line457-471	conclusion
	23c	Discuss any limitations of the review processes used.	page7/line457-471	conclusion
	23d	Discuss implications of the results for practice, policy, and future research.	page7/line457-471	conclusion
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.	NA	A
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	NA	NA
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	NA	NA
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	NA	NA
Competing interests	26	Declare any competing interests of review authors.	NA	NA
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.	page7/line472-483	Availability of data, code and other materials
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Table 2 PRISMA 2020 for Abstracts checklist

Section/topic	ltem No	Checklist item	Reported on Page Number/Line Number	Reported on Section/Paragraph
TITLE	- 1			
Title	1	Identify the report as a systematic review.	page1/line1-3	title
BACKGROUND				
Objectives	2	Provide an explicit statement of the main objective(s) or question(s) the review addresses.	page1/line20-36	Abstract/Paragraph 1
METHODS	- I			
Eligibility criteria	3	Specify the inclusion and exclusion criteria for the review.	page1/line20-22	Abstract/Paragraph 1
Information sources	4	Specify the information sources (e.g. databases, registers) used to identify studies and the date when each was last searched.	page1/line23-25	Abstract/Paragraph 2
Risk of bias	5	Specify the methods used to assess risk of bias in the included studies.	page1/line23-25	Abstract/Paragraph 2
Synthesis of results	6	Specify the methods used to present and synthesize results.	page1-2/line26-31	Abstract/Paragraph 3
RESULTS				
Included studies	7	Give the total number of included studies and participants and summarise relevant characteristics of studies.	page1-2/line26-31	Abstract/Paragraph 3
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/line32-35	Abstract/Paragraph 4
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/line32-35	Abstract/Paragraph 4
Interpretation	10	Provide a general interpretation of the results and important implications.	page2/line32-35	Abstract/Paragraph 4
OTHER				
Funding	11	Specify the primary source of funding for the review.	NA	NA
Registration	12	Provide the register name and registration number.	NA	NA

Article information: https://dx.doi.org/10.21037/jgo-21-624 *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.