

| 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/line1-4 | title |
| ABSTRACT | | | | |
| Abstract | 2 | See the PRISMA 2020 for Abstracts checklist (Table 2). | page1/line21-39 | abstract |
| INTRODUCTION | | | | |
| Rationale | 3 | Describe the rationale for the review in the context of existing knowledge. | page2/line42-140 | introduction/paragraph1-2 |
| Objectives | 4 | Provide an explicit statement of the objective(s) or question(s) the review addresses. | page2/line42-140 | introduction/paragraph3 |
| METHODS | · | | | |
| Eligibility criteria | 5 | Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses. | page4/line166-202 | 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/line142-165 | methods/paragraph1 |
| Search strategy | 7 | Present the full search strategies for all databases, registers and websites, including any filters and limits used. | page3/line142-165 | 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/line203-259 | 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. | age4/line203-259 | 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/line227-259 | 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/line227-259 | methods/paragraph5 |

| assessmentIn the processeshow many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.page5/line260-303methodEffect measures12Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.page5/line260-303methodSynthesis methods13aDescribe the processes used to decide which studies were eligible for each synthesis.page5/line305-328method13bDescribe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.page5/line305-328method13cDescribe any methods used to tabulate or visually display results of individual studies and syntheses.page5/line305-328method13dDescribe 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/line305-328method13eDescribe any methods used to explore possible causes of heterogeneity among study results.page5/line305-328method13fDescribe any methods used to explore possible causes of heterogeneity and synthesis (arising from reporting biases).page5/line305-328method13fDescribe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).page5/line305-328method13fDescribe any methods used to assess risk of bias due to missing results in a synthesis (ar | hods/paragraph6 |
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| Number of the process and process. Pages/line305-328 method 13d Describe any methods used to tabulate or visually display results of individual studies and syntheses. pages/line305-328 method 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. Pages/line305-328 method 13e Describe any methods used to explore possible causes of heterogeneity among study results. pages/line305-328 method 13f Describe any sensitivity analyses conducted to assess robustness of the synthesized results. pages/line305-328 method Reporting bias 14 Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases). pages/line305-328 method | hods/paragraph6 |
| Note Describe any methods used to spople of the data for problemation of synthesis, each data for sy | hods/paragraph7 |
| Index 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 page5/line305-328 method 13e Describe any methods used to explore possible causes of heterogeneity among study results. page5/line305-328 method 13f Describe any methods used to assess robustness of the synthesized results. page5/line305-328 method Reporting bias 14 Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases). page5/line305-328 method | hods/paragraph7 |
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| The pointing bias and the assessment of bias due to missing results in a synthesis (ansing norm reporting biases). | hods/paragraph7 |
| assessment | hods/paragraph7 |
| Certainty assessment 15 Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome. page5/line305-328 method | hods/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. page12/line728-749 results/able1 | lts/paragraph1,figure1, 1 |
| 16b Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded. page6/line330-344 results/ | lts/paragraph1 |
| Study characteristics 17 Cite each included study and present its characteristics. page14/line763 table1 | ÷1 |
| Risk of bias in studies 18 Present assessments of risk of bias for each included study. page6/line345-352 results/ 3 | lts/paragraph2,figure2- |
| 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. page13/line751-755 results/ | lts/figure2-3 |

| Results of syntheses | 20a | For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies. | page6/I i ne305–314 | results/paragraph3-8 |
|--|-----|--|---------------------|-----------------------|
| | 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/line354-378 | results/paragraph3,4 |
| | 20c | Present results of all investigations of possible causes of heterogeneity among study results. | page6/line354-378 | results/paragraph3,4 |
| | 20d | Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results. | page6/line354-378 | results/paragraph3,4 |
| Reporting biases | 21 | Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed. | page6/line354-378 | results/paragraph3,4 |
| Certainty of evidence | 22 | Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed. | page6/line354-378 | results/paragraph3,4 |
| DISCUSSION | | | | , |
| Discussion | 23a | Provide a general interpretation of the results in the context of other evidence. | page8/line478-495 | discussion/paragraph2 |
| | 23b | Discuss any limitations of the evidence included in the review. | page8/line497-523 | conclusion |
| | 23c | Discuss any limitations of the review processes used. | page8/line497-523 | conclusion |
| | 23d | Discuss implications of the results for practice, policy, and future research. | page8/line497-523 | 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. | N∕A | N∕A |
| | 24b | Indicate where the review protocol can be accessed, or state that a protocol was not prepared. | N/A | N/A |
| | 24c | Describe and explain any amendments to information provided at registration or in the protocol. | N/A | N/A |
| Support | 25 | Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review. | N∕A | N/A |
| Competing interests | 26 | Declare any competing interests of review authors. | Ŋ∕A | N/A |
| 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. | WA | N∕A |

Table 2 PRISMA 2020 for Abstracts checklist

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|-------------------------|------------|---|---|----------------------------------|
| TITLE | | · | | |
| Title | 1 | Identify the report as a systematic review. | page1/line1-4 | title |
| BACKGROUND | | | | |
| Objectives | 2 | Provide an explicit statement of the main objective(s) or question(s) the review addresses. | page1/line21-24 | background |
| METHODS | | | | |
| Eligibility criteria | 3 | Specify the inclusion and exclusion criteria for the review. | page1/line21-24 | net hods |
| Information sources | 4 | Specify the information sources (e.g. databases, registers) used to identify studies and the date when each was last searched. | page1/line21-28 | nethods |
| Risk of bias | 5 | Specify the methods used to assess risk of bias in the included studies. | page1/line21-28 | net hods |
| Synthesis of results | 6 | Specify the methods used to present and synthesize results. | page1/line21-28 | net hods |
| RESULTS | | · | | |
| Included studies | 7 | Give the total number of included studies and participants and summarise relevant characteristics of studies. | page2/line29-36 | results |
| 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/line29-36 | results |
| 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/line37-39 | di scussi on |
| Interpretation | 10 | Provide a general interpretation of the results and important implications. | page2/line37-39 | di scussi on |
| 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/gs-21-611 *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.