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| SUBMISSION COMPLIANCE CHECKLIST: SYSTEMATIC REVIEWDOCUMENT VERSION 23 APRIL 2021Ensure your manuscript complies with author guidelines by completing this SUBMISSION COMPLIANCE CHECKLIST, ensure to report the corresponding page number. Submit the completed form on the journal website during the manuscript submission process (Step 4). |
| Was a statistician involved in this study? | [ ]  Yes | [ ]  No | [ ]  N/A |
| Consultation only? | [ ]  Yes | [ ]  No | [ ]  N/A |
| Was a statistician involved in data management? | [ ]  Yes | [ ]  No | [ ]  N/A |
| Statistician’s name: |       |
| Statistician’s affiliated institution: |       |
| Statistician’s qualifications: |       |
| COMPLIANCE CRITERIA | COMPULSARY SECTION TO COMPLETE |
| SECTION/TOPIC | # | CHECKLIST ITEM | REPORTED ON PAGE # |
| *TITLE* |  |  |  |
| Title | 1 | Identify the report as a systematic review. |       |
| *ABSTRACT* |  |  |  |
| Structured summary | 2 | Provide a structured summary including, as applicable: background, aim, setting, methods, results, conclusion and contribution. |       |
| *INTRODUCTION* |  | *Focus on a clinical question that will be addressed in the review.* |  |
| Rationale | 3 | Describe the rationale for the review in the context of what is already known. |       |
| Objectives | 4 | Provide an explicit statement of the objective(s) or question(s) the review addresses. |       |
| *METHODS* |  | *Describe in detail the search strategy, criteria used to select or reject articles, attempts made to obtain all important and relevant studies and deal with publication bias (including grey and unpublished literature), how the quality of included studies was appraised, the methodology used to extract and/or analyse data.* |  |
| Eligibility criteria | 5 | Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses. |       |
| 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. |       |
| Search strategy | 7 | Present the full search strategies for all databases, registers and websites, including any filters and limits used. |       |
| Study 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. |       |
| 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. |       |
| Data items | 10a | List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made. |       |
| 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. |       |
| 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. |       |
| 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. |       |
| 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)). |       |
| 13b | Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions. |       |
| 13c | Describe any methods used to tabulate or visually display results of individual studies and syntheses. |       |
| 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. |       |
| 13e | Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression). |       |
| 13f | Describe any sensitivity analyses conducted to assess robustness of the synthesized results. |       |
| Reporting bias assessment | 14 | Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases). |       |
| Certainty assessment | 15 | Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome. |       |
| *RESULTS* |  | *Describe the homogeneity of the different findings; clearly present the overall results and any meta-analysis.* |  |
| 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. |       |
| 16b | Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded. |       |
| Study characteristics | 17 | Cite each included study and present its characteristics. |       |
| Risk of bias in studies | 18 | Present assessments of risk of bias for each included study. |       |
| 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. |       |
| Results of syntheses | 20a | For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies. |       |
|  | 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. |       |
|  | 20c | Present results of all investigations of possible causes of heterogeneity among study results. |       |
|  | 20d | Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results. |       |
| Reporting biases | 21 | Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed. |       |
| Certainty of evidence | 22 | Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed. |       |
| *DISCUSSION* |  |  |  |
| Summary of evidence | 23a | Provide a general interpretation of the results in the context of other evidence. |       |
| 23b | Discuss any limitations of the evidence included in the review. |       |
| 23c | Discuss any limitations of the review processes used. |       |
| 23d | Discuss implications of the results for practice, policy, and future research. |       |
| Registration and protocol | 24a | Provide registration information for the review, including register name and registration number, or state that the review was not registered. |       |
| 24b | Indicate where the review protocol can be accessed, or state that a protocol was not prepared. |       |
| 24c | Describe and explain any amendments to information provided at registration or in the protocol. |       |
| *ACKNOWLEDGEMENT* |  |  |  |
| Acknowledgements | 27 | The acknowledgement section follows the conclusions section and addresses formal, required statements of gratitude and required disclosures. It includes listing those who contributed to the work but did not meet authorship criteria, with the corresponding description of the contribution. |       |
| Competing interests | 28 | This section should list specific competing interests associated with any of the authors. If authors declare that no competing interests exist, the article will include a statement to this effect. |       |
| Author contributions | 29 | All authors must meet the criteria for authorship as outlined in the [authorship](https://aosis.co.za/policies#authorship) policy and [author contribution](https://aosis.co.za/policies#author_contributions_affiliations) statement policies. |       |
| Funding | 30 | Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review. |       |
| Data availability statement | 31 | 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. |       |
| Disclaimer | 32 | A statement that the views expressed in the submitted article are his or her own and not an official position of the institution or funder. |       |