| **Section and Topic**  | **Item #** | **Checklist item**  | **Location where item is reported**  |
| --- | --- | --- | --- |
| **eTITLE**  |  |
| Title  | 1 | Identify the report as a systematic review. | Main text: Title |
| **ABSTRACT**  |  |
| Abstract  | 2 | See the PRISMA 2020 for Abstracts checklist. | Main text: **Abstract**Supplement: Supplemental Table 3 |
| **INTRODUCTION**  |  |
| Rationale  | 3 | Describe the rationale for the review in the context of existing knowledge. | Main text: **Introduction** paragraphs 1-2 |
| Objectives  | 4 | Provide an explicit statement of the objective(s) or question(s) the review addresses. | Main text: **Introduction** paragraph 2 |
| **METHODS**  |  |
| Eligibility criteria  | 5 | Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses. | Main text: *Search strategy* paragraph, *Systematic review evidence synthesis and meta-analysis* paragraph 1Supplement: *Search strategy* paragraphs 1-2 |
| 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. | Main text: *Search strategy* paragraph 1Supplement: *Deviations from registered protocol* paragraph 6 |
| Search strategy | 7 | Present the full search strategies for all databases, registers and websites, including any filters and limits used. | Supplement: Supplemental Tables 1, 4, 5 |
| 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. | Main text: *Data collection* paragraphs 1-2 |
| 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. | Main text: *Data collection* paragraphs 2Supplement: *Data collection* paragraphs 1-5, *Deviations from registered protocol* paragraphs 3, 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. | Main text: **Materials and methods** paragraph 1, *Systematic review evidence synthesis and meta-analysis* paragraph 1Supplement: Supplemental Table 1 |
| 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. | Main text: *Data collection* paragraph 2Supplement: *Data collection* paragraphs 1-5, Supplemental Table 5 |
| 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. | Main text: *Risk of bias and quality of evidence assessments* paragraph 1Supplement: *Risk of bias and quality of evidence assessments* paragraphs 1-2, Supplemental Table 6 |
| 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. | Main text: *Data collectio*n paragraph 2, *Systematic review evidence synthesis and meta-analysis* paragraph 2Supplement: *Data collection* paragraphs 2-5 |
| 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)). | Main text: *Systematic review evidence synthesis and meta-analysis* paragraphs 1-2 |
| 13b | Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions. | Main text: *Data collection* paragraphs 2Supplement: *Data collection* paragraphs 2-5 |
| 13c | Describe any methods used to tabulate or visually display results of individual studies and syntheses. | Main text: *Systematic review evidence synthesis and meta-analysis* paragraph 2Supplement: *Systematic review evidence synthesis and meta-analysis* paragraph 2 |
| 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. | Main text: *Systematic review evidence synthesis and meta-analysis* paragraph 2Supplement: *Systematic review evidence synthesis and meta-analysis* paragraphs 1-2 |
| 13e | Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression). | Main text: *Systematic review evidence synthesis and meta-analysis* paragraph 2 |
| 13f | Describe any sensitivity analyses conducted to assess robustness of the synthesized results. | Main text: *Systematic review* e*vidence synthesis and meta-analysis* paragraph 2 |
| Reporting bias assessment | 14 | Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases). | Main text: *Systematic review evidence synthesis and meta-analysis* paragraph 2, *Risk of bias and quality of evidence assessments* paragraph 1Supplement: *Risk of bias and quality of evidence assessments* paragraph 3, Supplemental Table 6 |
| Certainty assessment | 15 | Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome. | Main text: *Risk of bias and quality of evidence assessments* paragraphSupplement: *Risk of bias and quality of evidence assessments* paragraph 3 |
| **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. | Main text: **Results** paragraph 1, Table 1Supplement: Supplemental Figures 1-8, Supplemental Table 7 |
| 16b | Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded. | Supplement: Supplemental Table 7 |
| Study characteristics  | 17 | Cite each included study and present its characteristics. | Main text: Throughout **Results,** Table 2 |
| Risk of bias in studies  | 18 | Present assessments of risk of bias for each included study. | Main text: Throughout **Results,** Table 3 |
| 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. | Main text: Throughout **Results,** Table 2, Figures 1-2 |
| Results of syntheses | 20a | For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies. | Main text: Throughout **Results,** Tables 2-3 |
| 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. | Main text: *C. trachomatis* paragraph, *Bacterial vaginosis* paragraph 1, Figures 1-2 |
| 20c | Present results of all investigations of possible causes of heterogeneity among study results. | NA |
| 20d | Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results. | NA |
| Reporting biases | 21 | Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed. | Main text: Throughout **Results,** Tables 3-4 |
| Certainty of evidence  | 22 | Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed. | Main text: Throughout **Results**, Table 4 |
| **DISCUSSION**  |  |
| Discussion  | 23a | Provide a general interpretation of the results in the context of other evidence. | Main text: **Discussion** paragraphs 1, 9 |
| 23b | Discuss any limitations of the evidence included in the review. | Main text: **Discussion** paragraphs 1, 3, 6, 7 |
| 23c | Discuss any limitations of the review processes used. | Main text: **Discussion** paragraph 8Supplement: **Limitations of search strategy** paragraph |
| 23d | Discuss implications of the results for practice, policy, and future research. | Main text: **Discussion** paragraphs 1, 5-7, 9 |
| **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. | Main text: **Materials and methods** paragraph 1 |
| 24b | Indicate where the review protocol can be accessed, or state that a protocol was not prepared. | Main text: **Materials and methods** paragraph 1 |
| 24c | Describe and explain any amendments to information provided at registration or in the protocol. | Supplement: *Deviations from registered protocol* paragraphs |
| Support | 25 | Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review. | Main text: **Conflicts of interest and sources of funding** |
| Competing interests | 26 | Declare any competing interests of review authors. | Main text: **Conflicts of interest and sources of funding** |
| 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. | Supplement: Supplemental Table 6Otherwise not publicly available |

*From:*  Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71

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