| Section/topic | Item No | Checklist item | Reported on Page Number/Line Number | Reported on Section/Paragraph |
|--------------|---------|----------------|-------------------------------------|-------------------------------|
| TITLE        | 1       | Identify the report as a systematic review. | Page 1/Line 2 | Title page |
| ABSTRACT     | 2       | See the PRISMA 2020 for Abstracts checklist (Table 2). | Page 3/Line 42-63 | Abstract |
| INTRODUCTION | Rationale 3 | Describe the rationale for the review in the context of existing knowledge. | Page 5/Line 72-87 | Introduction |
|              | Objectives 4 | Provide an explicit statement of the objective(s) or question(s) the review addresses. | Page 5/Line 85-87 | Introduction |
| METHODS      | Eligibility criteria 5 | Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses. | Page 5-6/Line 90-97 | Methods/Data Source and Literature Search |
|              | Information sources | 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. | Page 5-6/Line 90-97 | Methods/Data Source and Literature Search |
|              | Search strategy | Present the full search strategies for all databases, registers and websites, including any filters and limits used. | Page 6/Line 98-106 | Methods/Data Source and Literature Search |
|              | Selection process | 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. | Page 6/Line 108-116 | Methods/Study Selection |
|              | 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. | Page 6-7/Line 118-122 | Methods/Data Extraction |
|              | 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. | Page 6-7/Line 118-122 | Methods/Data Extraction |
|              | 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. | Page 29-30 | Table 1, Table 2 |
| 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. | Page 7-Line 124-130 | Methods/Quality Assessment |
| --- | --- | --- | --- | --- |
| 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. | Page 7-8-Line 132-164 | Methods/Statistical Analysis |
| Synthesis methods | 13a | Describe the processes used to decide which studies were eligible for each synthesis. | Page 7-8-Line 132-164 | Methods/Statistical Analysis |
| 13b | Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions. | Page 7-8-Line 132-164 | Methods/Statistical Analysis |
| 13c | Describe any methods used to tabulate or visually display results of individual studies and syntheses. | Page 7-8-Line 132-164 | Methods/Statistical Analysis |
| 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. | Page 7-8-Line 132-164 | Methods/Statistical Analysis |
| 13e | Describe any methods used to explore possible causes of heterogeneity among study results. | Page 7-8-Line 132-164 | Methods/Statistical Analysis |
| 13f | Describe any sensitivity analyses conducted to assess robustness of the synthesized results. | Page 7-8-Line 132-164 | Methods/Statistical Analysis |
| Reporting bias assessment | 14 | Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases). | Page 7-8-Line 132-164 | Methods/Statistical Analysis |
| Certainty assessment | 15 | Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome. | Page 7-8-Line 132-164 | Methods/Statistical Analysis |

**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. | Page 9-Line 167-174 | Results/Identification of Studies |
| --- | --- | --- | --- | --- |
| 16b | Cite studies that met many but not all inclusion criteria ('near-misses') and explain why they were excluded. | Page 9-Line 176-187 | Results/Identification of Studies |
| Study characteristics | 17 | Cite each included study and present its characteristics. | Page 9-Line 187-189 | Results/Study Characteristics and Quality of the Included Studies |
| Risk of bias in studies | 18 | Present assessments of risk of bias for each included study. | Page 9-10-Line 189-196, Table S1 | Results/Quality of the Included Studies |
| 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. | Page 10-12-Line 198-242, Figure 1-6 | Results |
| Results of syntheses          | 20a | For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies. | Page 10-12/198-242, Results of 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. | Page 10-12/198-242, Results of syntheses |
|                               | 20c | Present results of all investigations of possible causes of heterogeneity among study results. | Page 10-12/198-242, Results of syntheses |
|                               | 20d | Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results. | Page 10-12/198-242, Results of syntheses |
| Reporting biases              | 21  | Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed. | Page 12/Line 244-246, Figure S6, Results/Publication Bias |
| Certainty of evidence         | 22  | Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed. | Page 10-12/198-242, Results of syntheses |

**DISCUSSION**

| Discussion                    | 23a | Provide a general interpretation of the results in the context of other evidence. | Page 12-15/Line 319-331, Discussion |
|                               | 23b | Discuss any limitations of the evidence included in the review. | Page 15/Line 319-331, Discussion |
|                               | 23c | Discuss any limitations of the review processes used. | Page 15/Line 319-331, Discussion |
|                               | 23d | Discuss implications of the results for practice, policy, and future research. | Page 15/Line 324-331, Discussion |

**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. | Page 16/Line 350-354, Footnote |
|                               | 24b | Indicate where the review protocol can be accessed, or state that a protocol was not prepared. | Page 6/Line 98-106, Methods/Data Source |
|                               | 24c | Describe and explain any amendments to information provided at registration or in the protocol. | Page 6/Line 98-106, Methods/Data Source |
| Support                       | 25  | Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review. | Page 16/Line 338, Acknowledgments |
| Competing interests           | 26  | Declare any competing interests of review authors. | Page 16/Line 343-344, Conflict of Interest |
| 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. | Page 9/Line 176-187, Results/Study Characteristics and Patient Populations |
| Section/topic       | Item No | Checklist item                                                                 | Reported on Page Number/Line Number | Reported on Section/Paragraph |
|--------------------|---------|--------------------------------------------------------------------------------|------------------------------------|-------------------------------|
| TITLE              |         |                                                                                  |                                    |                               |
| Title              | 1       | Identify the report as a systematic review.                                     | Page 1/Line 2-3                    | Title                         |
| BACKGROUND         |         |                                                                                  |                                    |                               |
| Objectives         | 2       | Provide an explicit statement of the main objective(s) or question(s) the review addresses. | Page 3/Line 42-44                 | Abstract/Background           |
| METHODS            |         |                                                                                  |                                    |                               |
| Eligibility criteria | 3     | Specify the inclusion and exclusion criteria for the review.                    | Page 5-6/Line 90-97                | Methods/Data Source           |
| Information sources | 4     | Specify the information sources (e.g. databases, registers) used to identify studies and the date when each was last searched. | Page 5-6/Line 90-97                | Methods/Data Source and Literature Search |
| Risk of bias       | 5       | Specify the methods used to assess risk of bias in the included studies.         | Page 7/Line 124-130                | Methods/Quality               |
| Synthesis of results | 6     | Specify the methods used to present and synthesize results.                    | Page 3/Line 45-50                  | Abstract/Methods              |
| RESULTS            |         |                                                                                  |                                    |                               |
| Included studies   | 7       | Give the total number of included studies and participants and summarise relevant characteristics of studies. | Page 3/Line 45, 51                 | Abstract/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). | Page 3/Line 51-59                 | Abstract/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). | Page 15/Line 319-323               | Discussion                    |
| Interpretation     | 10      | Provide a general interpretation of the results and important implications.      | Page 3/Line 60-63                  | Abstract/Conclusions          |
| OTHER              |         |                                                                                  |                                    |                               |
| Funding            | 11      | Specify the primary source of funding for the review.                          | Page 16/Line 338                   | Acknowledgments               |
| Registration       | 12      | Provide the register name and registration number.                             | Page 16/Line 350-354               | Footnote                      |
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*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.