

## Supplement File S1 PRISMA 2020 Main Checklist

| Topic                          | No. | Item   | Location where item is reported                |
|--------------------------------|-----|--|--|
| <b>TITLE</b>                   |     |  |  |
| <b>Title</b>                   | 1   | Identify the report as a systematic review.  | page 1 lines 2, 3, 4 and 5                     |
| <b>ABSTRACT</b>                |     |  |  |
| <b>Abstract</b>                | 2   | See the PRISMA 2020 for Abstracts checklist  |  |
| <b>INTRODUCTION</b>            |     |  |  |
| <b>Rationale</b>               | 3   | Describe the rationale for the review in the context of existing knowledge.  | page 1, lines 42-45 and page 2, lines 46-59    |
| <b>Objectives</b>              | 4   | Provide an explicit statement of the objective(s) or question(s) the review addresses.   | page 2, lines 59-65                            |
| <b>METHODS</b>                 |     |  |  |
| <b>Eligibility criteria</b>    | 5   | Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.  | page 2, lines 35-43                            |
| <b>Information sources</b>     | 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.  | page 2, lines 73-79                            |
| <b>Search strategy</b>         | 7   | Present the full search strategies for all databases, registers and websites, including any filters and limits used.   | page 2, lines 76 and 77                        |
| <b>Selection process</b>       | 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.                     | page 2, lines 80-88                            |
| <b>Data collection process</b> | 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 2, lines 94 and 95 and page 3 lines 96-98 |

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|--------------------------------------|-----|---|---------------------------------|
| <b>Data items</b>                    | 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 3, lines 105-115           |
|                                      | 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 3, lines 115-120           |
| <b>Study risk of bias assessment</b> | 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 3, lines 99-103            |
| <b>Effect measures</b>               | 12  | Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.   | page 3, lines 107-115           |
| <b>Synthesis methods</b>             | 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)).   | page 3, lines 115-117           |
|                                      | 13b | Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.   | page 3, lines 117-120           |
|                                      | 13c | Describe any methods used to tabulate or visually display results of individual studies and syntheses.  | page 3, lines 122-124           |
|                                      | 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 3, lines 122-129           |
|                                      | 13e | Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).  | page 3, lines 137 and 138       |
|                                      | 13f | Describe any sensitivity analyses conducted to assess robustness of the synthesized results.  | page 3, lines 144 and 145       |
| <b>Reporting bias assessment</b>     | 14  | Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).   | page 3, lines 135-137           |

| Topic                                | No. | Item   | Location where item is reported   |
|--------------------------------------|-----|--|---|
| <b>Certainty assessment</b>          | 15  | Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.  | page 3, lines 130-132   |
| <b>RESULTS</b>                       |     |  |   |
| <b>Study selection</b>               | 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 4, lines 149-157   |
|                                      | 16b | Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.  | page 4, lines 151-153   |
| <b>Study characteristics</b>         | 17  | Cite each included study and present its characteristics.  | pages 5-7, table 1  |
| <b>Risk of bias in studies</b>       | 18  | Present assessments of risk of bias for each included study.   | page 7, lines 180-182 and page 8, table 2   |
| <b>Results of individual studies</b> | 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 8, lines 192-208; page 9, lines 216-223; page 10, lines 231-235; figure 2, 3 and 4 |
| <b>Results of syntheses</b>          | 20a | For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.   | page 7, lines 181-184   |
|                                      | 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 8, lines 192-208; page 9, lines 216-223; page 10, lines 231-235; figure 2, 3 and 4 |
|                                      | 20c | Present results of all investigations of possible causes of heterogeneity among study results.   | page 8, lines 196-199   |
|                                      | 20d | Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.   | figure 2, 3 and 4   |
| <b>Reporting biases</b>              | 21  | Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.  | figure 2, 3 and 4   |
| <b>Certainty of evidence</b>         | 22  | Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.  | figure 2, 3 and 4   |

| Topic   | No. | Item   | Location where item is reported  |
|---|-----|--|--|
| <b>DISCUSSION</b>                                     |     |  |  |
| <b>Discussion</b>                                     | 23a | Provide a general interpretation of the results in the context of other evidence.  | page 11, lines 146-252   |
|   | 23b | Discuss any limitations of the evidence included in the review.  | page 11, lines 257-260; page 11, lines 265-267; page 11, lines 280-283 |
|   | 23c | Discuss any limitations of the review processes used.  | page 12, line 304; page 12, lines 308-310                              |
|   | 23d | Discuss implications of the results for practice, policy, and future research.   | page 12, lines 293-298; page 12 lines 320 and 321                      |
| <b>OTHER INFORMATION</b>                              |     |  |  |
| <b>Registration and protocol</b>                      | 24a | Provide registration information for the review, including register name and registration number, or state that the review was not registered.   | page 12, lines 322-324   |
|   | 24b | Indicate where the review protocol can be accessed, or state that a protocol was not prepared.   | page 12, lines 322-324   |
|   | 24c | Describe and explain any amendments to information provided at registration or in the protocol.  | page 12 line 329 and lines 335-337                                     |
| <b>Support</b>  | 25  | Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.  | page 12, line 332  |
| <b>Competing interests</b>                            | 26  | Declare any competing interests of review authors.   | page 12, lines 338 and 339   |
| <b>Availability of data, code and other materials</b> | 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 12, lines 333 and 334   |

## PRIMSA Abstract Checklist

| Topic                          | No. | Item  | Reported? |
|--------------------------------|-----|---|-----------|
| <b>TITLE</b>                   |     |   |           |
| <b>Title</b>                   | 1   | Identify the report as a systematic review.   | Yes       |
| <b>BACKGROUND</b>              |     |   |           |
| <b>Objectives</b>              | 2   | Provide an explicit statement of the main objective(s) or question(s) the review addresses.   | Yes       |
| <b>METHODS</b>                 |     |   |           |
| <b>Eligibility criteria</b>    | 3   | Specify the inclusion and exclusion criteria for the review.  | No        |
| <b>Information sources</b>     | 4   | Specify the information sources (e.g. databases, registers) used to identify studies and the date when each was last searched.  | Yes       |
| <b>Risk of bias</b>            | 5   | Specify the methods used to assess risk of bias in the included studies.  | No        |
| <b>Synthesis of results</b>    | 6   | Specify the methods used to present and synthesize results.   | Yes       |
| <b>RESULTS</b>                 |     |   |           |
| <b>Included studies</b>        | 7   | Give the total number of included studies and participants and summarise relevant characteristics of studies.   | No        |
| <b>Synthesis of results</b>    | 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). | Yes       |
| <b>DISCUSSION</b>              |     |   |           |
| <b>Limitations of evidence</b> | 9   | Provide a brief summary of the limitations of the evidence included in the review (e.g. study risk of bias, inconsistency and imprecision).   | Yes       |
| <b>Interpretation</b>          | 10  | Provide a general interpretation of the results and important implications.   | Yes       |
| <b>OTHER</b>                   |     |   |           |
| <b>Funding</b>                 | 11  | Specify the primary source of funding for the review.   | No        |
| <b>Registration</b>            | 12  | Provide the register name and registration number.  | No        |

*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. MetaArXiv. 2020, September 14. DOI: 10.31222/osf.io/v7gm2. For more information, visit: [www.prisma-statement.org](http://www.prisma-statement.org)