

## Checklist S1 (PRISMA 2009)

| Section/topic                      | #  | Checklist item  | Reported on section #                       |
|------------------------------------|----|---|---|
| <b>TITLE</b>                       |    |   |   |
| Title                              | 1  | Identify the report as a systematic review, meta-analysis, or both.   | Title                                       |
| <b>ABSTRACT</b>                    |    |   |   |
| Structured summary                 | 2  | Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number. | Abstract                                    |
| <b>INTRODUCTION</b>                |    |   |   |
| Rationale                          | 3  | Describe the rationale for the review in the context of what is already known.  | 1 <sup>st</sup> , 2 <sup>nd</sup> paragraph |
| Objectives                         | 4  | Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).  | 2 <sup>nd</sup> paragraph                   |
| <b>METHODS</b>                     |    |   |   |
| Protocol and registration          | 5  | Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.   | 2 <sup>nd</sup> paragraph of Introduction   |
| Eligibility criteria               | 6  | Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.  | Literature search; Study Selection          |
| Information sources                | 7  | Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.  | Literature search                           |
| Search                             | 8  | Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.   | Literature search                           |
| Study selection                    | 9  | State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).   | Study Selection                             |
| Data collection process            | 10 | Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.  | Data Extraction                             |
| Data items                         | 11 | List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.   | Data Extraction                             |
| Risk of bias in individual studies | 12 | Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.  | Statistical analysis                        |
| Summary measures                   | 13 | State the principal summary measures (e.g., risk ratio, difference in means).   | Statistical analysis                        |

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| Synthesis of results          | 14 | Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., $I^2$ ) for each meta-analysis.  | Statistical analysis   |
| Risk of bias across studies   | 15 | Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).   | Statistical analysis   |
| Additional analyses           | 16 | Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.   | Statistical analysis   |
| <b>RESULTS</b>                |    |  |  |
| Study selection               | 17 | Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.  | Literature Search Results  |
| Study characteristics         | 18 | For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.   | Study characteristics  |
| Risk of bias within studies   | 19 | Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).  | Effect of black tea on blood cholesterol   |
| Results of individual studies | 20 | For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot. | 1 <sup>st</sup> paragraph of the section of Effect of black tea on blood cholesterol                     |
| Synthesis of results          | 21 | Present results of each meta-analysis done, including confidence intervals and measures of consistency.  | Effect of black tea on blood cholesterol   |
| Risk of bias across studies   | 22 | Present results of any assessment of risk of bias across studies (see Item 15).  | Effect of black tea on blood cholesterol;<br>Publication bias  |
| Additional analysis           | 23 | Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).  | 2 <sup>nd</sup> and 3 <sup>rd</sup> paragraph of the section of Effect of black tea on blood cholesterol |

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| <b>DISCUSSION</b>   |    |  |  |
| Summary of evidence | 24 | Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers). | 1 <sup>st</sup> paragraph of Discussion                  |
| Limitations         | 25 | Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).                        | 3 <sup>rd</sup> -6 <sup>th</sup> paragraph of Discussion |
| Conclusions         | 26 | Provide a general interpretation of the results in the context of other evidence, and implications for future research.  | 7 <sup>th</sup> paragraph of Discussion                  |
| <b>FUNDING</b>      |    |  |  |
| Funding             | 27 | Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.   | Acknowledgments  |

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For more information, visit: [www.prisma-statement.org](http://www.prisma-statement.org).