Research Checklists For: Alcohol Consumption as a Risk Factor for Tuberculosis: Meta-analyses and Burden of Disease

This document presents the research checklists for the meta-analyses and burden of disease analyses.

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# Preferred Reporting Items for Systematic Reviews and Meta-Analyses Checklist

| Section / Topic     | Item Number | Checklist Item                                                                                                                                                                                                 | Reported In** |
|---------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| **Title**           | 1           | Identify the report as a systematic review, meta-analysis, or both.                                                                                                                                               | Pg. 1         |
| **Abstract**        | 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. | Pg. 3 - 4    |
| **Introduction**    | 3           | Describe the rationale for the review in the context of what is already known.                                                                                                                                   | Pgs. 5 – 6    |
| **Methods**         | 4           | Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).                                                     | Pg. 6         |
|                     | 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.                                      | Pg. S2       |
|                     | 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.                                      | Pgs. 6 – 7    |
|                     | 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.                                           | Pgs. 6 - 7 and S2 |
| **Search**          | 8           | Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.                                                                                     | Pg. S2       |
| **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).                                                      | Pg. 7 and S2  |
| **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.                                            | Pgs. 6 – 7 and S2 |
| **Data items**      | 11          | List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.                                                                          | Pg. S2       |
| **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. | Pg. S2       |
| **Summary measures**| 13          | State the principal summary measures (e.g., risk ratio, difference in means).                                                                                                                                   | Pg. 8        |
| **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.                                                                 | Pgs. 8 – 9 and S2 |
| Section                        | Page(s) |
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*Abbreviations: Pg., Page; Tab, Table; Fig, Figure
* Reference to information presented in Additional File 1 Supplementary Appendices denoted by S preceding the page, table or figure numbers
### Guidelines for Accurate and Transparent Health Estimates Reporting Statement Checklist

| Item Number | Checklist Item                                                                                                                                                                                                  | Reported In/”*”                                                                                     |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| **Objectives and Funding**                                                                                   |                                                                                                                                                                                                                   |
| 1           | Define the indicator(s), populations (including age, sex, and geographic entities), and time period(s) for which estimates were made.                                                                           | Pg. 6                                                                                                 |
| 2           | List the funding sources for the work.                                                                                                                                                                             | Pgs. 23                                                                                               |
| **Data Inputs**                                                                                               |                                                                                                                                                                                                                   |
| For all data inputs from multiple sources that are synthesized as part of the study:                        |                                                                                                                                                                                                                   |
| 3           | Describe how the data were identified and how the data were accessed.                                                                                                                                              | Pg. S3                                                                                                 |
| 4           | Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.                                                                                                                                       | Not applicable, as relevant data sources were identified based on expert opinion rather than literature searches |
| 5           | Provide information on all included data sources and their main characteristics. For each data source used, report reference information or contact name/institution, population represented, data collection method, year(s) of data collection, sex and age range, diagnostic criteria or measurement method, and sample size, as relevant. | Pgs. 10 - 11 and S3                                                                                |
| 6           | Identify and describe any categories of input data that have potentially important biases (e.g., based on characteristics listed in item 5).                                                                 | Pg. S3                                                                                                 |
| For data inputs that contribute to the analysis but were not synthesized as part of the study:            |                                                                                                                                                                                                                   |
| 7           | Describe and give sources for any other data inputs.                                                                                                                                                               | Pgs. 10 – 11                                                                                          |
| For all data inputs:                                                                                         |                                                                                                                                                                                                                   |
| 8           | Provide all data inputs in a file format from which data can be efficiently extracted (e.g., a spreadsheet rather than a PDF), including all relevant meta-data listed in item 5. For any data inputs that cannot be shared because of ethical or legal reasons, such as third-party ownership, provide a contact name or the name of the institution that retains the right to the data. | All relevant data sources are publically available from the references cited. They are not presented as the World Health Organization retains the rights to these data. |
| **Data analysis**                                                                                            |                                                                                                                                                                                                                   |
| 9           | Provide a conceptual overview of the data analysis method. A diagram may be helpful.                                                                                                                               | Pgs. 10 – 11                                                                                          |
| 10          | Provide a detailed description of all steps of the analysis, including mathematical formulae. This description should cover, as relevant, data cleaning, data pre-processing, data adjustments and weighting of data sources, and mathematical or statistical model(s). | Pgs. 10 - 11 and S3                                                                                |
| 11          | Describe how candidate models were evaluated and how the final model(s) were selected.                                                                                                                             | Pgs. 10 - 11                                                                                          |
| 12          | Provide the results of an evaluation of model performance, if done, as well as the results of any relevant sensitivity analysis.                                                                                  | Pgs. 10 – 11                                                                                          |
| 13          | Describe methods for calculating uncertainty of the estimates. State which sources of uncertainty were, and were not, accounted for in the uncertainty analysis.                                                | Pgs. 10 – 11 and S3                                                                                |
| 14          | State how analytic or statistical source code used to generate estimates can be accessed.                                                                                                                           | Pg. S3                                                                                                 |
| **Results and Discussion**                                                                                   |                                                                                                                                                                                                                   |
| 15          | Provide published estimates in a file format from which data can be efficiently extracted.                                                                                                                       | Additional File 3                                                                                   |
| 16          | Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals).                                                                                                                    | Pgs. 13 – 15; Tabs 4 and S7-S10; Figs. 3 - 4                                                       |
Interpret results in light of existing evidence. If updating a previous set of estimates, describe the reasons for changes in estimates.

Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates.

* Abbreviations: Pg., Page; Tab, Table; Fig, Figure

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