

Checklist of information that should be included in new reports of global health estimates

Item #	Checklist item	Reported on page #
Objectives and funding		
1	Define the indicator(s), populations (including age, sex, and geographic entities), and time period(s) for which estimates were made.	Methods, paragraph 2
2	List the funding sources for the work.	Acknowledgement, paragraph 1
Data Inputs		
<i>For all data inputs from multiple sources that are synthesized as part of the study:</i>		
3	Describe how the data were identified and how the data were accessed.	Methods, paragraphs 2, 3, 9, 11
4	Specify the inclusion and exclusion criteria. Identify all ad-hoc exclusions.	Methods, paragraph 2
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.	Methods, paragraphs 2, 3, 4
6	Identify and describe any categories of input data that have potentially important biases (e.g., based on characteristics listed in item 5).	Discussion, paragraph 6
<i>For data inputs that contribute to the analysis but were not synthesized as part of the study:</i>		
7	Describe and give sources for any other data inputs.	-
<i>For all data inputs:</i>		
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.	Methods, paragraph 9 & OSF (reference 16)
Data analysis		
9	Provide a conceptual overview of the data analysis method. A diagram may be helpful.	Methods, paragraphs 5, 6, 7, 8
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).	Methods, paragraphs 5, 6, 7, 8 & S1 Text
11	Describe how candidate models were evaluated and how the final model(s) were selected.	Methods, paragraphs 5, 6, 7, 8
12	Provide the results of an evaluation of model performance, if done, as well as the results of any relevant sensitivity analysis.	-
13	Describe methods for calculating uncertainty of the estimates. State which sources of uncertainty were, and were not, accounted for in the uncertainty analysis.	Methods, paragraphs 6, 7
14	State how analytic or statistical source code used to generate estimates can be accessed.	Methods, paragraph 9

		& OSF (reference 16)
Results and Discussion		
15	Provide published estimates in a file format from which data can be efficiently extracted.	OSF (reference 16)
16	Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals).	Results, paragraphs 1, 2, 3, 4, 5, 8
17	Interpret results in light of existing evidence. If updating a previous set of estimates, describe the reasons for changes in estimates.	Discussion, paragraphs 1, 2, 3, 4
18	Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates.	Discussion, paragraphs 5, 6

This checklist should be used in conjunction with the GATHER statement and Explanation and Elaboration document, found on gather-statement.org