## Appendix 2

GATHER checklist of information that should be included in reports of global health estimates, with description of compliance and location of information for GBD 2017.

cription of npliance	Reference
<u> </u>	<u> </u>
provided in describing definitions, lations	Main text (Methods) and appendix
ources listed in	Summary (Funding)
dy:	
description of ing methods	Main text (Methods) and appendix
about and exclusion / data type ad hoc s in cause- rrite-ups	Main text (Methods) and appendix
ctive, online ce tool that metadata for ces by nt, geography, k, or nt has been d	Online data citation tools: <u>http://ghdx.healthdata.o</u> <u>rg/gbd-2017</u>
of known cause included lix	Appendix
of the study:	-
in online data ol	http://ghdx.healthdata.o rg/gbd-2017
	<u>.                                    </u>
ds of input data through online uding data ion tools and y tools; input available in be made	Online data visualisation tools, data query tools, and the Global Health Data Exchange
be	

9	Provide a conceptual overview of the data analysis method. A diagram may be helpful.	Flow diagrams of the overall methodological processes, as well as cause-specific modelling processes, have been provided	Main text (Methods) and appendix
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).	Flow diagrams and corresponding methodological write- ups for each cause, as well as the databases and modelling processes, have been provided	Main text (Methods) and appendix
11	Describe how candidate models were evaluated and how the final model(s) were selected.	Provided in the methodological write- ups	Appendix
12	Provide the results of an evaluation of model performance, if done, as well as the results of any relevant sensitivity analysis.	Provided in the methodological write- ups	Appendix
13	Describe methods for calculating uncertainty of the estimates. State which sources of uncertainty were, and were not, accounted for in the uncertainty analysis.	Appendix	Appendix
14	State how analytic or statistical source code used to generate estimates can be accessed.	Appendix	http://ghdx.healthdata.o rg/gbd-2017/code
Res	ults and Discussion		
15	Provide published estimates in a file format from which data can be efficiently extracted.	GBD 2017 results are available through online data visualisation tools, the Global Health Data Exchange, and the online data query tool	Main text, and online data tools (data visualisation tools, data query tools, and the Global Health Data Exchange)
16	Report a quantitative measure of the uncertainty of the estimates (e.g. uncertainty intervals).	Uncertainty intervals are provided with all results	Main text, appendix, and online data tools (data visualisation tools, data query tools, and the Global Health Data Exchange)
17	Interpret results in light of existing evidence. If updating a previous set of estimates, describe the reasons for changes in estimates.	Discussion of methodological changes between GBD rounds provided in the narrative of the manuscript and appendix	Main text (Methods and Discussion) and appendix
18	Discuss limitations of the estimates. Include a discussion of any modelling assumptions or data limitations that affect interpretation of the estimates.	Discussion of limitations provided in the narrative of the main paper, as well as in the methodological write- ups in the appendix	Main text (Limitations) and appendix