

GBD Results Tool: GBD 2019 Codebook and Data Guide

Date of release: October 15, 2020

Date of update: December 18, 2020

Summary:

The Global Burden of Disease Study 2019 (GBD 2019), coordinated by the Institute for Health Metrics and Evaluation (IHME), estimated the burden of diseases, injuries, and risk factors for 204 countries and territories and selected subnational locations.

This set of files contain the following for GBD 2019 results in the GBD Results Tool:

- Codebook [machine-actionable]
- The GBD 2019 Cause Hierarchy
- The GBD 2019 Risk, Etiology, Impairment, and Injury n-code (REI) Hierarchy
- Locations hierarchies
 - The GBD Locations Hierarchy file contains only GBD locations, including subnational locations for which results were released at the time of the study's publication.
 - The All Locations Hierarchies file also includes hierarchies for other regions for which estimates were produced, such as WHO and World Bank regions.
- Results by Measure
- Contexts by Age
- Metrics by Measure Definitions

The hierarchy files allow users to filter for sets of values by level or parent category, including cause or risk group, GBD super region or region, or custom region.

Acknowledgements

Contributing organizations:

Global Burden of Disease Collaborative Network

Funders:

• Bill and Melinda Gates Foundation (BMGF)

File Inventory

File Name	Description	Version Date
IHME_GBD_2017_CODEBOOK_COLLA	Codebook [machine-actionable]	November 25,
B_TOOL_Y2020M11D25.CSV		2020
IHME_GBD_2017_CAUSE_HIERARCH	GBD 2019 Cause Hierarchy	November 25,
Y_Y2020M11D25.XLSX		2020
IHME_GBD_2017_REI_HIERARCHY_Y	GBD 2019 Risk, Impairment, Etiology, and	October 15, 2020
2020M10D15.XLSX	Injury n-code (REI) Hierarchy	
IHME_GBD_2017_GBD_LOCATIONS_	GBD 2019 - GBD Locations Hierarchy	October 15, 2020
HIERARCHY_Y2020M10D15.XLSX		
IHME_GBD_2017_ALL_LOCATIONS_H	GBD 2019 - GBD and Custom Region	October 15, 2020
IERARCHIES_Y2020M10D15.XLSX	hierarchies	
IHME_GBD_2017_RESULTS_BY_MEA	Results Available by Measure: Causes, Risks,	December 18,
SURE_Y2020M10D15.XLSX	Etiologies, Impairments, Injuries by Nature	2020
IHME_GBD_2019_CONTEXTS_BY_AG	Contexts by Age	December 18,
E_Y2020M10D15.XLSX		2020
IHME_GBD_2017_MEASURE_METRIC	Definitions for each metric, by measure, for	October 15, 2020
_DEFINITIONS_Y2020M10D15.XLSX	metrics in the GBD Results Tool	
IHME_GBD_2017_INFO_SHEET_Y202	Codebook and Data Guide Information Sheet	December 18,
0M11D25.PDF		2020

Data Files Information

Data Update

The GBD Cause Hierarchy was updated on November 25 with four new causes:

1029	Total cancers
1026	Total burden related to hepatitis B
1027	Total burden related to hepatitis C
	Total burden related to Non-alcoholic fatty liver disease
1028	(NAFLD)

Etiology results were added to the GBD Results tool on <u>December 18</u>.

Codebook

The Codebook file is a machine-actionable GBD 2019 codebook for results from the GBD Results Tool. It includes variables, labels, and value coding (with text names and numeric identifiers for each value) for dimensions of the results data.

Hierarchy Files

The Cause Hierarchy file, REI Hierarchy file (risk factor, etiology, impairment, and injury n-code), and GBD Locations Hierarchy file contain GBD 2019 reporting hierarchies with values in the order they appear in online tools, such as the GBD Results Tool and GBD Compare.

The **All Locations Hierarchies** file contains the GBD 2019 reporting hierarchy and a number of other hierarchies which will allow users of GBD 2019 results to aggregate results by location in various ways (by GBD regions, World Bank regions, OECD countries, African Union countries, etc.).

To filter for the child values of a given parent value in any hierarchy file (e.g., all countries in the GBD region "South Asia," or all causes under "Chronic respiratory diseases"), filter on the parent ID in the **Parent ID** column.

To view each hierarchy in its proper nested order (the order they appear in online tools), sort by the **Sort Order** column.

For the Cause Hierarchy file, users can also filter by cause outline value (e.g., all causes in "A" or "A.1"), or for causes for which either only years of life lost (YLLs) or years lived with disability (YLDs) results were produced.

For the All Locations Hierarchies file, filter first by **Location Set Version ID**, and then by Parent ID and/or Sort Order.

Locations and Levels: In the locations hierarchies files:

- Level 3 = country or territory
- Levels 4 and 5 = subnational units

Location Set Version IDs

Location Set ID	Location Set
543	GBD 2019 Reporting
587	African Union
592	Commonwealth
591	European Union
593	Four World Regions
588	G20
586	Nordic Region
589	OECD Countries
670	WHO region
596	World Bank Income Levels
595	World Bank Regions

Select Variable Definitions

Variable	Definition
Cause ID	Cause IDs for cause variables come from an IHME database that
	creates and stores unique numeric identifiers for each GBD cause.
Cause Outline	This outline represents the hierarchy of causes and the depth of
	each cause in the hierarchy by alpha-numeric code for the current
	round of GBD.
Level	This indicates a location value's level in a location hierarchy.
Location ID	Locations IDs for geographic variables come from an IHME database
	that creates and stores unique numeric identifiers for locations of
	various location types.
Location Set Version ID	IDs for GBD 2019 location sets (including the GBD locations and
	custom region locations) come from an IHME database that creates
	and stores unique numeric identifiers for location set versions.
Parent ID	This indicates the parent ID for a value's parent in the hierarchy. For
	example, all 31 Mexican states and 1 federal district (Mexico City)
	have a parent ID of 130, the location ID for the country of Mexico.
Parent Name	This indicates the name of the parent value. This variable is only in
	the Cause and REI hierarchies.
REI ID	REI IDs for risk, etiology, impairment, and injury n-code (injury by
	nature) variables come from an IHME database that creates and
	stores unique numeric identifiers for each risk, etiology,
	impairment, and injury.
REI Type	This indicates whether the value is a risk, etiology, impairment, or
	injury.
Sort Order	This can be used to sort a set of values in a particular order (not
	alphabetical, but the order in which the values appear in online
	tools, paper tables, etc.).
YLL Only	Indicates causes for which only mortality estimates (deaths, years
	of life lost (YLLs)) were produced.
YLD Only	Indicates causes for which only nonfatal estimates (years lived with
	disability (YLDs)) were produced.

Results by Measure

This Excel file contains a set of sheets that display the measures (deaths, DALYs, incidence, etc.) for which estimates are provided for each GBD cause, risk, impairment, etiology, and injury by nature.

Filter on cause, risk, etc., or a measure (deaths, YLDs, incidence, etc.), to see available results.

Additionally, the sheets display which causes each risk, impairment, etiology, and injury by nature are associated with. For example:

- In the "Risk" sheet, filter for "Ambient particulate matter pollution" in the "Risks" column and see the 18 causes associated with the Ambient particulate matter pollution risk
- In the "Impairment" sheet, filter for "Blindness" in the "Impairments" column and see the 34 causes associated with the Blindness impairment

Contexts by Age

This Excel file provides the full set of age groups used, cumulatively, in results available from the tool, and the context each age group appears in. Filter on contexts like Cause, Risk, Life expectancy, Population, etc. to the see the ages available for each.

Metrics by Measure Definitions

This file (also included as a tab in the "Results by Measure" file) provides definitions for each metric, by measure, contained in the GBD Results Tool.

Additional Information

Terms and Conditions

http://www.healthdata.org/about/terms-and-conditions

Contact information

To request further information about this dataset, please contact IHME:

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These files may be updated periodically, so we appreciate hearing feedback or additional information about how these data are being used.