



GBD Results Tool User Guide

This document provides a basic guide for using the GBD Results Tool. The tool allows retrieval of GBD 2017 results and includes the following:

- **Results:** All GBD causes, risks, etiologies, impairments, injuries by nature, and sequela aggregates (level 5 sequelae in the GBD 2017 Cause and Sequela Hierarchy)
- **Measures:** deaths, years of life lost (YLLs), years lived with disability (YLDs), disability-adjusted life years (DALYs), prevalence, incidence, life expectancy, probability of death (PoD), healthy life expectancy (HALE), maternal mortality ratio (MMR), and summary exposure value (SEV)
- **Metrics (units):** number, rate, percent, years, and probability of death
- **Years:** 1990-2017; annual results for all measures
- **Ages:** All GBD age groups
- **Sexes:** males, females, both sexes
- **Locations:** GBD super regions, regions, countries, select subnational units, and custom regions (WHO regions, World Bank Income Levels, and more)

(For term definitions and value lists for each of the variables above, see the [GBD 2017 Online Tools Overview](#). The GBD Results Tool's [Codebook](#) also contains value coding.)

The tool can return results both as a visualization (a web-based data table with line charts) and as a CSV file. The CSV file is downloadable from the tool's user interface.

The web-based data table displays rounded figures. For most queries, complete results with full statistical precision are only available via download.

Accessing the Tool

In Microsoft Edge, Internet Explorer 11, Google Chrome, Firefox, or Safari browsers, go to <http://ghdx.healthdata.org/gbd-results-tool>

Querying the Data

Specify your query parameters using the tool's controls. Results display in the table and line charts below the controls. The controls in the grid at the top are primarily drop-down menus.

Base	Single	Change	PoD	Context	Cause	Measure	Add/Remove... (2)
Location	Add/Remove... (1)			Age	Add/Remove... (1)	Sex	Add/Remove... (1)
Year	Add/Remove... (2)			Metric	Add/Remove... (3)	Cause	Add/Remove... (1)

Figure 1. GBD Results Tool user interface: drop-down menus.

There are two ways to make a selection in a drop-down menu:

1. **Click and Scroll:** Click on the down arrow button (or within the body of the menu), scroll, and check the box for a desired value.
2. **Autocomplete:** Start typing the name of a specific value, and when it appears, check the box beside it.



Figure 2. Selecting values from drop-downs: scroll or autocomplete.

To clear selections from any drop-down, click the “x”.



Figure 3. Clearing existing selections.

Guidance for Querying the Data

Base: This menu offers three choices:

- **Single:** Select for single year estimates
- **Change:** Select for multi-year estimates for select year ranges
- **PoD:** Select for “Probability of death” estimates

(Note: “Probability of death” results can only be accessed by choosing this base)

Context: This menu defines the type of indicator results you can access: GBD cause, risk, etiology, etc.

Each context includes a different set of measures. See the **Appendix: Context by Measure** for a table displaying the measures provided for each context.

Only certain causes are related with each risk, etiology, impairment, injury by nature, and sequela. Only the Sequela menu displays related causes. The [Codebook](#) includes a **GBD Results by Measure** file which shows the measures provided for each indicator – and to which causes each risk, etiology, impairment, injury by nature, and sequela are related.

To view **Cause** results:

- Select “Cause” in the Context drop-down
- Select the desired measure(s) in the Measure drop-down
- Select the desired cause(s) in the Cause drop-down

To view **Risk** results:

- Select “Risk” in the Context drop-down
- Select the desired measure(s) in the Measure drop-down
- Select the desired risk(s) in the Risk drop down
- Select the desired related cause(s) in the Cause drop-down*

To view **Etiology** results:

- Select “Etiology” in the Context drop-down
- Select the desired measure(s) in the Measure drop-down
- Select the desired etiology(or etiologies) in the Etiology drop down
- Select the desired related cause(s) in the Cause drop-down*

To view **Impairment** results:

- Select “Impairment” in the Context drop-down
- Select the desired measure(s) in the Measure drop-down
- Select the desired impairment(s) in the Impairment drop down
- Select the desired related cause(s) in the Cause drop-down*

To view **Injury by Nature** results:

- Select “Injury” in the Context drop-down
- Select the desired measure(s) in the Measure drop-down
- Select the desired injury(or injuries) in the Injury drop down
- Select the desired related cause(s) in the Cause drop-down*

(* Alternately, you can choose “select all” in the Cause drop-down; only results for causes related to the selected risks, etiologies, impairments, or injuries will be returned.)

To view **Sequela Aggregate** results:

- Select “Sequela Aggregate” in the Context drop-down
- Select the desired measure(s) in the Measure drop-down
- Select the desired sequela (or sequelae) in the Sequela drop down

To view **Life Expectancy, HALE, or SEV** results:

- Simply select one of these items in Context drop-down

NOTE: “Population,” “Fertility,” “Health-related SDGs,” and “Life Tables” are also included in the Context menu. Select any of these items, and a link will appear to a GHDx catalog record. These records contain CSV files with results for these items.

Select the desired values for Location, Age, Sex, Year, and Metric in the other drop-down menus.

Click the **Search** button to execute a query.

Further Filtering Results

You can further filter results that appear in the data table using the text fields that appear directly below the table headers (e.g., Measure, Location, Sex, etc.).

MEASURE	LOCATION	SEX	AGE	CAUSE	METRIC	YEAR	VAL	UPPER	LOWER
Deaths	United Stat...	Both sexes	Under 5	Injuries	Number	2017	3,431.11	3,610.67	3,173.26
Deaths	United Stat...	Both sexes	Under 5	Injuries	Percent	2017	13.19	13.61	12.19
Deaths	United Stat...	Both sexes	All Ages	Injuries	Number	2017	186,400.72	190,789.65	181,743.47
Deaths	United Stat...	Both sexes	All Ages	Injuries	Percent	2017	6.52	6.61	6.42
Deaths	United Stat...	Both sexes	Under 5	All causes	Number	2015	27,250.14	27,480.01	27,008.17
Deaths	United Stat...	Both sexes	Under 5	All causes	Percent	2015	100.00	100.00	100.00

Figure 4. Data table filters.

Just start typing the name of a desired value into one of the text fields and the results will automatically filter. For example, if your results include estimates for both deaths and DALYs, but you want to filter for DALYs only, start typing “DALYs” into the **Measure** field.

MEASURE	LOCATION	SEX	AGE	CAUSE	METRIC	YEAR	VAL	UPPER	LOWER
DAL									
DALYs (Disability-Adjusted Life Years)	United Stat...	Both sexes	Under 5	All causes	Number	2015	2,923,610.71	3,108,571.45	2,767,452.05
DALYs (Disability-Adjusted Life Years)	United Stat...	Both sexes	Under 5	All causes	Percent	2015	100.00	100.00	100.00
DALYs (Disability-Adjusted Life Years)	United Stat...	Both sexes	All Ages	All causes	Number	2015	96,394,120.39	108,953,464.41	85,427,273.28
DALYs (Disability-Adjusted Life Years)	United Stat...	Both sexes	All Ages	All causes	Percent	2015	100.00	100.00	100.00

Figure 5. Filtering results by “Measure.”

Large Results

Queries can produce large result sets. If your query would result in more rows than can be displayed in the tool’s data table, the following message will appear:

Base Single Change PoD

Location Add/Remove... (469) x

Year Add/Remove... (1) x

Context Cause

Age Add/Remove... (1) x

Metric Add/Remove... (3) x

Measure Add/Remove... (2) x

Sex Add/Remove... (1) x

Cause Add/Remove... (360) x

Search
Permalink
Download CSV

Your search parameters will likely return too many records to display. You may download them as a .csv file using the "Download CSV" button above.

Figure 6. The “too many records to display” message.

Saving and Downloading Results

To save a query:

1. Click the **Permalink** button.

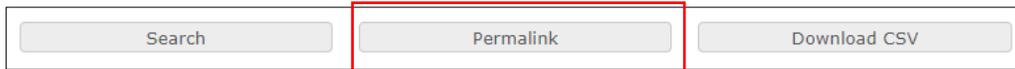


Figure 7. The Permalink button.

2. When the Permalink box appears, click the **Copy** button to save the link to your computer's clipboard.
3. Paste the link in an email, text document, or some other place where you can save and retrieve it.

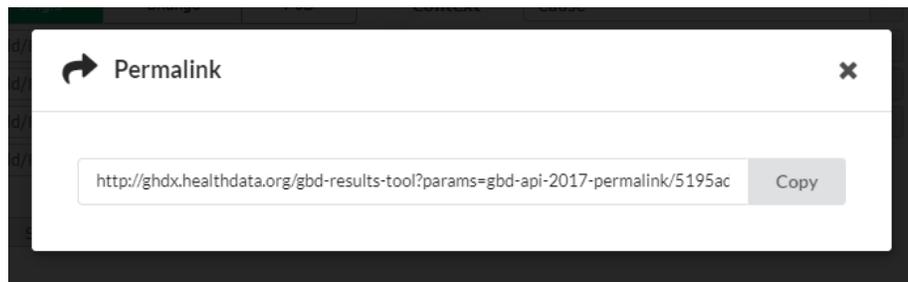


Figure 8. The Permalink box.

To download a CSV:

1. Click the **Download CSV** button.



Figure 9. The Download CSV button.

2. Follow the download option prompts.

The tool requires an email address, and provides the option for your file(s) to include only ID values (numeric coding: e.g., 101, 429), name values (e.g., Canada, Breast cancer), or both. You will also receive a message that if your search returns more 500,000, they will be split into multiple files.

A request may take up to several hours to complete, depending on the search parameters entered. You will receive a confirmation email with a link to a page where you may check the status of your request. When the process is complete, that page will contain the files' download links. You will receive a second email confirming that your download is ready.

Notes/Issues

- While the GBD Results Tool can be very powerful for querying and downloading GBD results, including many search parameters may cause some issues.
 - Queries with massive parameters can sometimes result in files that omit some results specified in the query – certain age groups, years, etc.
 - We recommend that you break your query down into smaller parts. For example, do not query all locations AND many or all causes, age groups, years, etc. at the same time.
 - A good rule of thumb would be to search by relatively narrow parameters first and see if the results appear in the data table. Then you may expand your parameters incrementally.
- The tool does not work with Internet Explorer versions 10 and earlier.

If you discover any issues not mentioned in this guide, please send a note to data@healthdata.org

Appendix: Troubleshooting

This troubleshooting appendix includes workarounds for some of the GBD Results Tool's known issues.

Combining Multiple CSV Files

Sometimes, queries will return data in multiple CSV files. Each file will contain a segment of the data and have identical columns and a header row.

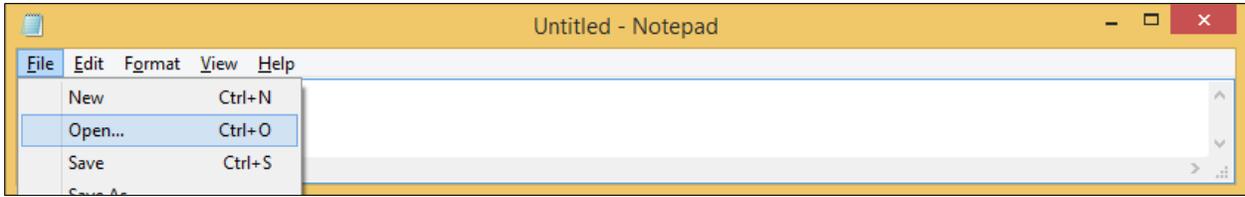
To combine multiple CSV files in Excel:

1. Open the first file in the set you want to combine in Excel.
2. Open the next file in the set.
3. Select all cells below the first line in this next file.
 - a. Note: A simple way to do this is to select cell A2 (the first and leftmost data-containing cell) and press the following keys: Control + Shift + ↓ + →.
4. Copy the selected cells.
5. Paste the copied cells into the first and leftmost blank cell in the first file.
6. Repeat steps 2-5 until the data from all files have been copied into the first one.

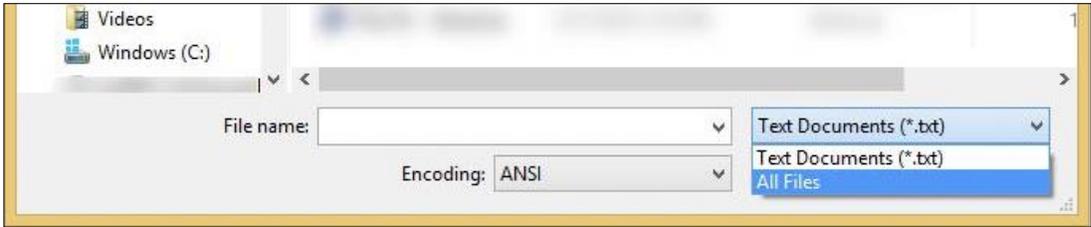
Opening CSV Files with Special Characters in Excel

Sometimes, queries result in files that contain special characters, such as place names with accents like "México." These characters may not display properly when the CSV file is opened in Excel. To solve this problem:

1. Open Notepad. [Note: this applies only to Windows; a solution for Mac users is forthcoming.]
2. Click File > Open (Ctrl + O)



3. Browse to and open the exported CSV, making sure to select "All Files" in the bottom right.



4. In the Encoding drop-down menu at the bottom, change from ANSI to UTF-8.



5. Save the file. When you reopen it in Excel, the special characters should appear correctly.

Appendix: Context by Measure

MEASURE	CONTEXT								
	Cause	Risk	Etiology	Impairment	SEV	HALE	Life expectancy	Injury	PoD
Deaths	X	X	X						
DALYs	X	X	X						
YLDs	X	X	X	X				X	
YLLs	X	X	X						
Prevalence	X			X				X	
Incidence	X							X	
MMR	X								
PoD									X
SEV					X				
HALE						X			
Life expectancy							X		