

IHME Institute for Health Metrics and Evaluation Population

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SUMMARY

The IHME dataset is from the GBD Results Tool, which is provided by the Institute for Health Metrics and Evaluation (IHME). IHME is an independent global health research center at the University of Washington. IHME gathers and provides many types of health-related data. Such as administrative data, census, demographic surveillance, disease registry, environmental monitoring, etc. The Global Burden of Disease (GBD) is a tool that provides a comprehensive picture of mortality and disability across countries, time, age, and sex. It quantifies health loss from hundreds of diseases, injuries, and risk factors worldwide. Because it's pulled from a free data source, it's imperative that the puller pay attention to the year of release, who the source uploader is, and what diseases cause death. These points are significant in ensuring that the calculation for the output of each country is accurate. GBD research incorporates both the prevalence of a given disease or risk factor and the relative harm it causes. The GBD is regularly updated with new data.

In particular, the data team uses this dataset in order to calculate for a couple indicators:

- GBD Estimate
- Measure
- Metric
- Cause
- Location
- Age
- Sex

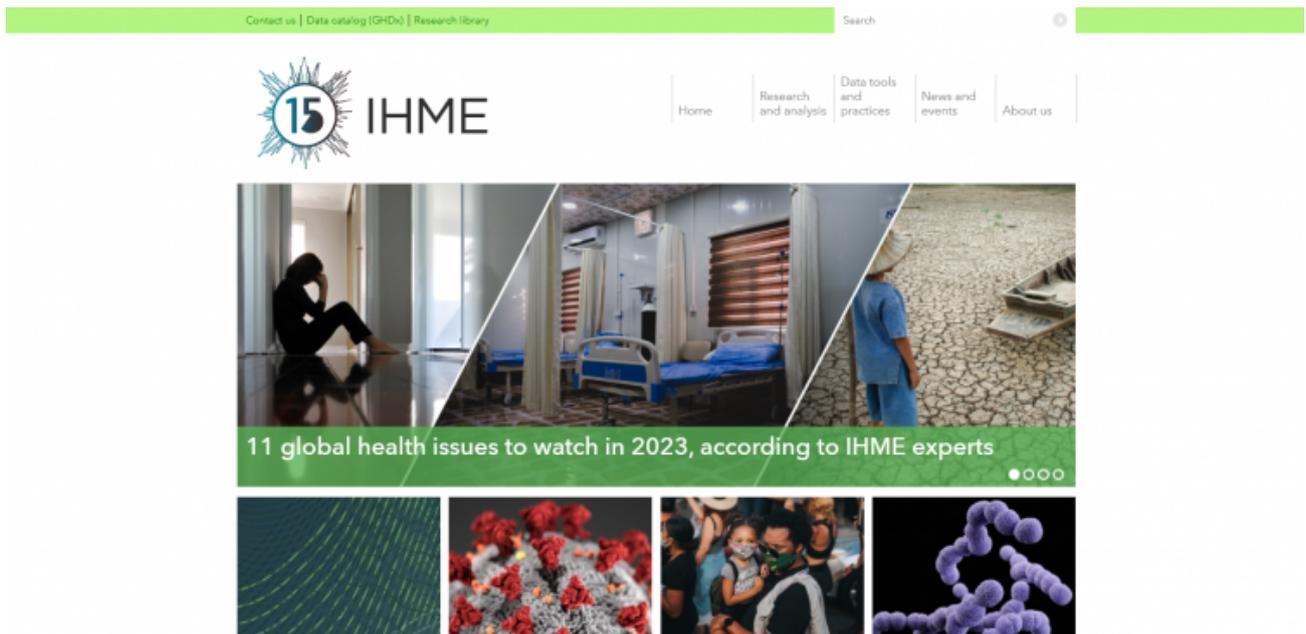
- Year

By using these indicators, we calculate the death count of each cause of each gender group of a country across multiple age groups.

To pull data into IFs, please follow the instructions found in the Data Pull instructions below.

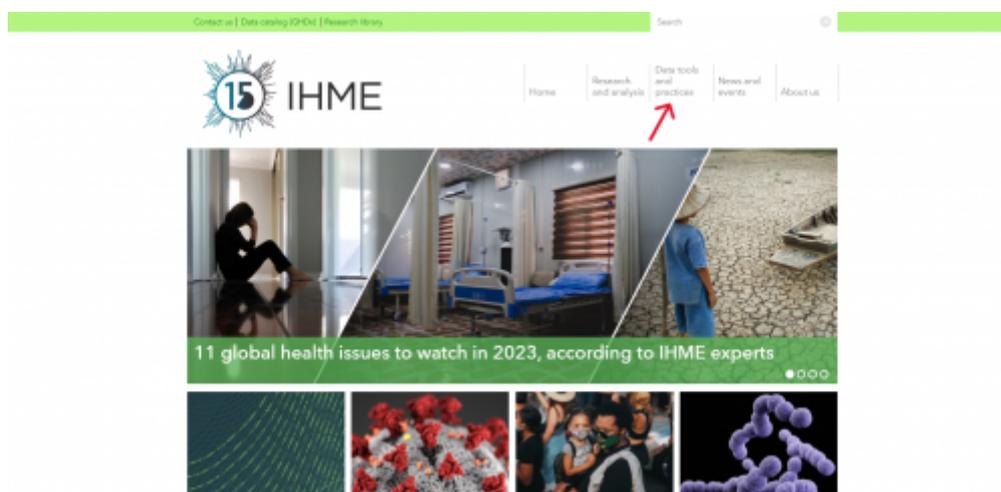
GENERAL STEPS TO PULL DATA FROM IHME

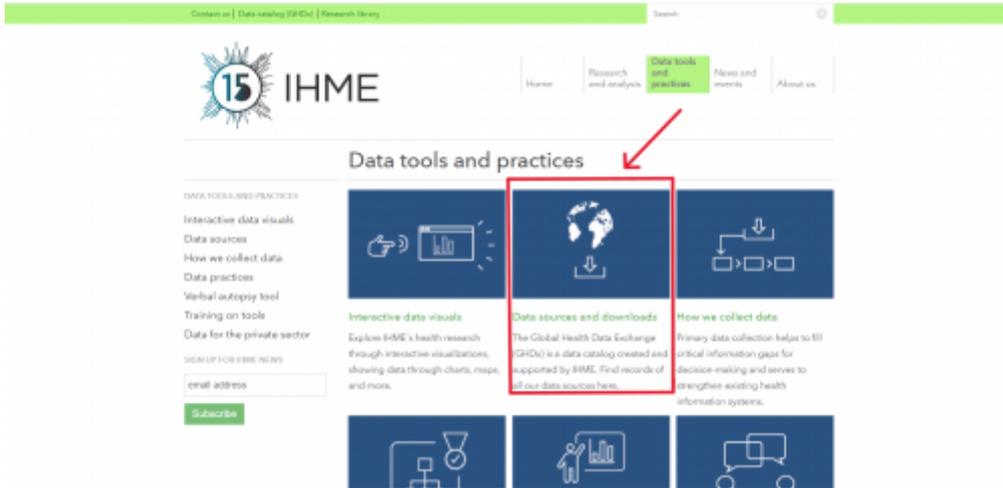
Step 1.) To pull from IHME, first navigate to <https://www.healthdata.org/>



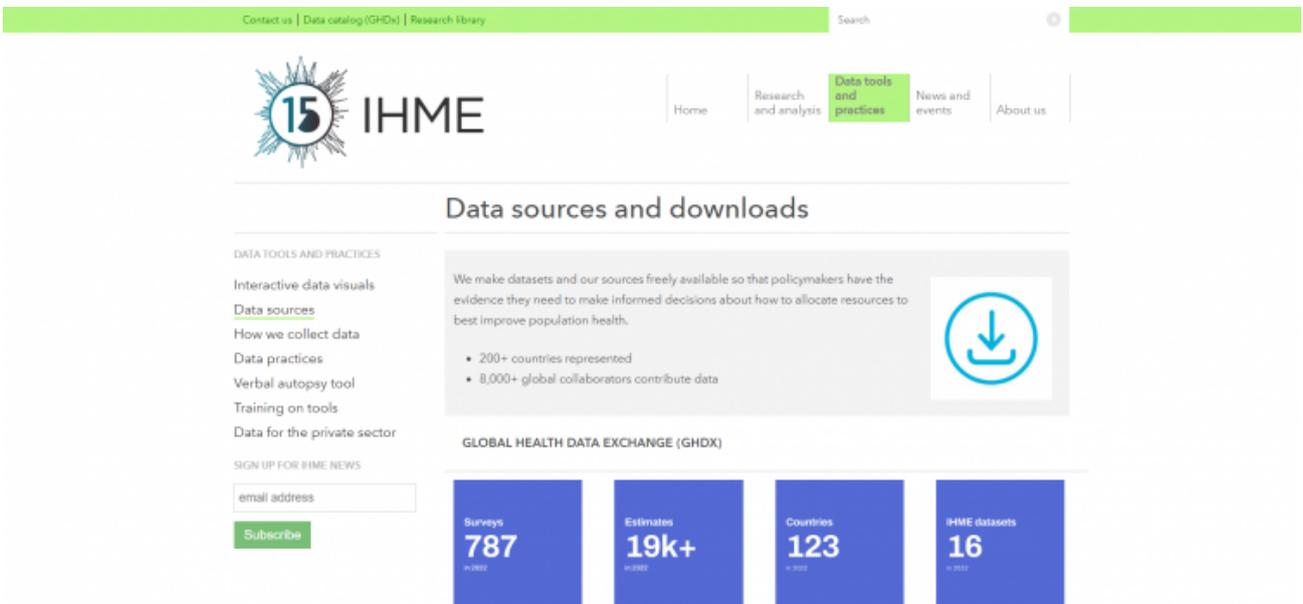
IHME Webpage

Step 2.) Click <Data tools and practices> at the top menu. Then, click <Data sources and downloads> will lead to a new page.





Step 3.) The following page will formulate.



Step 4.) Scroll down and click <GBD RESULTS TOOL>

MORE WAYS TO DOWNLOAD DATA

TIP: The GBD Results tool allows you to download any data from the GBD study. The interactive data visuals listed here also allow you to download data!



GBD RESULTS TOOL

Trends from 1990-2019 Global Burden of Disease (GBD) study. Download estimates in 204 countries, 369 diseases, and 87 risk factors.



EPIDEMIOLOGICAL ESTIMATES INTERACTIVE VISUAL

See data sources and epidemiological estimates from the GBD 2019 project.



CAUSES OF DEATH (COD) INTERACTIVE VISUAL

For any age group, see trends in causes of death over time. See more than 350 causes in both adjusted and pre-adjusted numbers, rates, and percentages for 204 countries and territories.



MORTALITY INTERACTIVE VISUAL

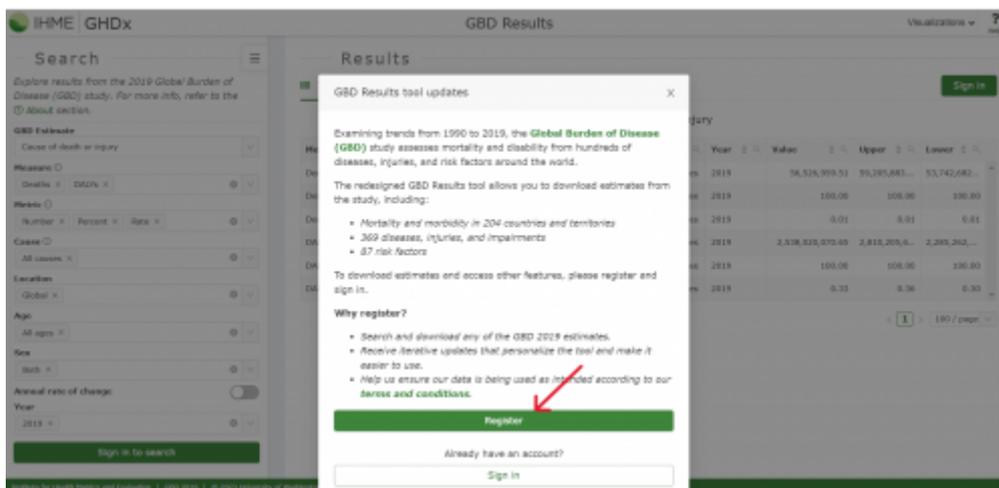
See an overview of the data sources and process for creating mortality trends for children and adults for 204 countries and territories. Charts, maps, and FAQ included.

PRIMARY DATA COLLECTION METHODS

We work with in-country partners and data collectors to carry out our mixed-methods research.

[Learn about data collection.](#)

Step 5.) The following page will formulate.



The screenshot shows the IHME GHDx GBD Results interface. A modal window titled "GBD Results tool updates" is displayed in the center. The modal contains the following text:

Examining trends from 1990 to 2019, the **Global Burden of Disease (GBD)** study assesses mortality and disability from hundreds of diseases, injuries, and risk factors around the world.

The redesigned GBD Results tool allows you to download estimates from the study, including:

- Mortality and morbidity in 204 countries and territories
- 369 diseases, injuries, and impairments
- 87 risk factors

To download estimates and access other features, please register and sign in.

Why register?

- Search and download any of the GBD 2019 estimates.
- Receive iterative updates that personalize the tool and make it easier to use.
- Help us ensure our data is being used as intended according to our **terms and conditions**.

At the bottom of the modal, there is a green "Register" button and a "Sign in" button. A red arrow points to the "Register" button.

Before pulling IHME data, you need to register for an account to access it. Click "Register" and the following page will formulate.



Registration

We are pleased to offer our data as a free global public good for non-commercial users. However, commercial organizations and their employees must obtain a license.

If you are working at a commercial organization please complete the form and IHME Client Services will contact you.

Email confirmation

Email *

email@domain.com

Send code to email

After finishing the registration and signing in to your account. The main page will formulate.

The screenshot shows the IHME GHDx GBD Results page. On the left is a search sidebar with filters for GBD Estimate, Measure, Metric, Cause, Location, Age, Sex, and Annual rate of change. The main area displays a table of results for 'Cause of death or injury' in 2019. The table has columns for Measure, Metric, Cause, Location, Age, Sex, Year, Value, Upper, and Lower. The data is as follows:

Measure	Metric	Cause	Location	Age	Sex	Year	Value	Upper	Lower
Deaths	Number	All causes	Global	All ages	Both sexes	2019	56,526,959.51	59,205,883...	53,742,682...
Deaths	Percent	All causes	Global	All ages	Both sexes	2019	100.00	100.00	100.00
Deaths	Rate	All causes	Global	All ages	Both sexes	2019	0.01	0.01	0.01
DALYs (Disabilit...	Number	All causes	Global	All ages	Both sexes	2019	2,538,020,070.65	2,810,205,6...	2,285,262...
DALYs (Disabilit...	Percent	All causes	Global	All ages	Both sexes	2019	100.00	100.00	100.00
DALYs (Disabilit...	Rate	All causes	Global	All ages	Both sexes	2019	0.33	0.36	0.30

GBD Results Page

VARIABLE EXAMPLE: SeriesInfMortRateIHME

Step 6.) Click the arrow below the indicator <GBD Estimate> on the left side. You will then have the option to click "Cause of Death or Injury", "Risk Factor", "Etiology", etc. To narrow down the indicator, select the options you are looking for. As an example, click the option (e.g., "Cause of Death or Injury") of GBD Estimate and the table will formulate on the right side.

← → ↻ vizhub.healthdata.org/gbd-results/

IHME | GHDx GBD Results

Search ☰

Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the [About section](#).

GBD Estimate

Cause of death or injury ^

- Cause of death or injury** ⓘ
- Risk factor ⓘ
- Etiology ⓘ
- Impairment ⓘ
- Summary exposure value (SEV) ⓘ
- Health-adjusted life expectancy (HALE) ⓘ
- Injuries by nature ⓘ
- Population ⓘ
- Fertility ⓘ
- Life tables ⓘ
- All-cause mortality ⓘ

Year

Results

[Table](#) [Charts](#) [About](#)

Cause of death or injury

Measure	Metric	Cause	Location	Age	Sex	Year
Deaths	Number	All causes	Global	All ages	Both sexes	2019
Deaths	Percent	All causes	Global	All ages	Both sexes	2019
Deaths	Rate	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Number	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Percent	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Rate	All causes	Global	All ages	Both sexes	2019

Step 7.) To adjust the indicator <Measure> you are pulling, click the arrow below the indicator <Measure> on the left side. You will then have multiple options to choose. As an example, click the option "Deaths".

IHME | GHDx GBD Results

Search ☰

Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the [About section](#).

GBD Estimate

Cause of death or injury v

Measure ⓘ

Deaths x ⊕ ^

- Deaths** ⓘ
- DALYs (Disability-Adjusted Life Years) ⓘ
- YLDs (Years Lived with Disability) ⓘ
- YLLs (Years of Life Lost) ⓘ
- Prevalence ⓘ
- Incidence ⓘ
- Maternal mortality ratio ⓘ

Sex

Results

[Table](#) [Charts](#) [About](#)

Cause of death or injury

Measure	Metric	Cause	Location	Age	Sex	Year
Deaths	Number	All causes	Global	All ages	Both sexes	2019
Deaths	Percent	All causes	Global	All ages	Both sexes	2019
Deaths	Rate	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Number	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Percent	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Rate	All causes	Global	All ages	Both sexes	2019

Step 8.) To adjust the indicator <Metric>, click the arrow below the indicator <Metric> on the left side. You will then have multiple options to choose. As an example, click the option "Rate".

Search

Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the [About section](#).

GBD Estimate
Cause of death or injury

Measure
Deaths

Metric
Rate

Select all

Number

Percent

Rate

Results

Table | Charts | About

Cause of dea

Measure	Metric	Cause	Location	Age
Deaths	Number	All causes	Global	All ages
Deaths	Percent	All causes	Global	All ages
Deaths	Rate	All causes	Global	All ages
DALYs (Disabilit...	Number	All causes	Global	All ages
DALYs (Disabilit...	Percent	All causes	Global	All ages
DALYs (Disabilit...	Rate	All causes	Global	All ages

Step 9.) To adjust the indicator <Cause>, type in "infant" in the box below the <Cause> option. Then, you will have multiple options to choose from. Click the option "Sudden infant death syndrome".

Search

Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the [About section](#).

GBD Estimate
Cause of death or injury

Measure
Deaths

Metric
Rate

Cause Required field
infant

All causes

Non-communicable diseases

Other non-communicable diseases

Sudden infant death syndrome

Sex

Results

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Cause of death or injury

Measure	Metric	Cause	Location	Age	Sex	Year
Deaths	Number	All causes	Global	All ages	Both sexes	2019
Deaths	Percent	All causes	Global	All ages	Both sexes	2019
Deaths	Rate	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Number	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Percent	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Rate	All causes	Global	All ages	Both sexes	2019

Step 10.) To adjust the indicator <Location>, click the arrow below the indicator <Location> on the left side. You will then have multiple options to choose. Click the option "Select all countries and territories".

IHME | GHDx GBD Results

Select all locations
 Select all countries and territories
 Select all GBD regions
 Select all GBD super regions

Global

Select all

Low SDI
 Low-middle SDI
 Middle SDI
 High-middle SDI
 High SDI

Central Europe, Eastern Europe, and

Armenia x Azerbaijan x Georgia x
 Kazakhstan x +200 more

Search...

Results

Table Charts About

Cause of death or injury

Measure	Metric	Cause	Location	Age	Sex	Year
Deaths	Number	All causes	Global	All ages	Both sexes	2019
Deaths	Percent	All causes	Global	All ages	Both sexes	2019
Deaths	Rate	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Number	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Percent	All causes	Global	All ages	Both sexes	2019
DALYs (Disabilit...	Rate	All causes	Global	All ages	Both sexes	2019

Step 11.) To adjust the indicator <Age>, click the arrow below the indicator <Age> on the left side. You will then have multiple options to choose from. Then, select three options: "0-6 days", "7-27 days", and "28-364 days".

IHME | GHDx GBD Results

Select all

All ages
 Age-standardized
 Birth

0-6 days
 7-27 days
 <28 days
 28-364 days
 0-9 years
 0-14 years
 <1 year

0-6 days x 7-27 days x 28-364 days x

Results

Table Charts About

Cause of death

Measure	Metric	Cause	Location	Age
Deaths	Number	All causes	Global	All ages
Deaths	Percent	All causes	Global	All ages
Deaths	Rate	All causes	Global	All ages
DALYs (Disabilit...	Number	All causes	Global	All ages
DALYs (Disabilit...	Percent	All causes	Global	All ages
DALYs (Disabilit...	Rate	All causes	Global	All ages

Step 12.) To adjust the indicator <Sex>, click the arrow below the indicator <Sex> on the left side. You will then have three options to choose from. Click the last option "Both".

Search

Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the [About section](#).

Measure
Deaths

Metric
Rate

Cause
Sudden infant death syndrome

Location
Armenia, Azerbaijan, Georgia, Kazakhstan, +200 more

Age
0-6 days, 7-27 days, 28-364 days

Sex
Both

Select all

Male

Female

Both

Results

Table Charts About

Cause of death

Measure	Metric	Cause	Location	Age	Sex
Deaths	Number	All causes	Global	All ages	Both sexes
Deaths	Percent	All causes	Global	All ages	Both sexes
Deaths	Rate	All causes	Global	All ages	Both sexes
DALYs (Disabilit...	Number	All causes	Global	All ages	Both sexes
DALYs (Disabilit...	Percent	All causes	Global	All ages	Both sexes
DALYs (Disabilit...	Rate	All causes	Global	All ages	Both sexes

Step 13.) To adjust the indicator <Year> you are pulling, click the arrow below the indicator <Year> on the left side. You will then have multiple options to choose from. Click the option "Select all" will select all years' records.

IHME | GHDx

Search

Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the [About section](#).

Select all

1990

1991

1992

1993

1994

1995

1996

1997

1998

1999

1990 x 1991 x 1992 x 1993 x

Results

Table Charts About

Cause of death or inju

Measure	Metric	Cause	Location	Age	Sex
Deaths	Number	All causes	Global	All ages	Both sexes
Deaths	Percent	All causes	Global	All ages	Both sexes
Deaths	Rate	All causes	Global	All ages	Both sexes
DALYs (Disabilit...	Number	All causes	Global	All ages	Both sexes
DALYs (Disabilit...	Percent	All causes	Global	All ages	Both sexes
DALYs (Disabilit...	Rate	All causes	Global	All ages	Both sexes

Step 14.) To download all CSV files with those specified parameters, click <Download>

in the left bottom corner.

Measure	Metric	Cause	Location	Age	Sex	Year	Value	Upper	Lower
Deaths	Number	All causes	Global	All ages	Both sexes	2019	56,526,959.51	59,205,883...	53,742,682...
Deaths	Percent	All causes	Global	All ages	Both sexes	2019	100.00	100.00	100.00
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DALYs (Disabil...	Number	All causes	Global	All ages	Both sexes	2019	2,538,020,070.65	2,810,205,6...	2,285,262...
DALYs (Disabil...	Percent	All causes	Global	All ages	Both sexes	2019	100.00	100.00	100.00
DALYs (Disabil...	Rate	All causes	Global	All ages	Both sexes	2019	0.33	0.36	0.30

Step 15.) The following page will formulate. Next, you will have three included options: "IDs", "Names" and "Both". As an example, select "Both" and click "Submit".

GBD Results download

We are pleased to offer our data as a free global public good. However, we do require licensing for commercial use. Commercial use means any use that supports a for-profit initiative or company, commercial advantage, financial transaction, or monetary compensation. [Review licensing options.](#)

Include ID values (e.g. 101, 429) or names (e.g. Canada, Breast cancer)?

IDs Names Both

An email will be sent to [redacted]@gmail.com with a link to download the data.

Step 16.) After system processing, you will receive a notification email and a link to access all pulled files through the registered email account. Clicking that link, a new webpage will formulate as below:

< — Data Download

REQUEST DETAILS
Task ID: `d45f2ade3937d8e13109ffaaca777e7f`
[View your download settings](#)

DOWNLOAD STATUS

✓ Pending ————— ✓ Processing ————— ✓ Done!
Ready for processing Monitor progress below Your download is ready

YOUR DATA FILES
Note: Data files on this page are available to download for 7 days after being created.

 IHME data file #1 https://fl.healthdata.org/443/gbd-api-2019-pub/c/945f2ade3937d8e13109ffaaca777e7f_files/IHME-GBD_2019_Data-d45f2ade-1.zip	Download
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