# 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 healthrelated 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.

Contact us   Data catalog (GHDd   For	ME Home Research and analys	Search O Data tools and News and practices events About us				
	Data sources and downloads					
DATA TOOLS AND PRACTICES Interactive data visuals Data sources How we collect data Data practices Verbal autopsy tool Training on tools	We make datasets and our sources freely available so that policymakers have the evidence they need to make informed decisions about how to allocate resources to best improve population health.  200+ countries represented  8,000+ global collaborators contribute data					
Training on tools Data for the private sector SIGN UP FOR BIME NEWS email address Subscribe	GLOBAL HEALTH DATA EXCHANGE (GHDX)	etios PHME datasets 23 16				

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

MORE WAYS TO DOWNLOAD D TIP: The GBD Results tool allows you to here also allow you to download data!	DATA to download any data from the GBD stud I	y. The interactive data visuals listed	
GED 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 percontages 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 I We work with in-country partners and Learn about data collection	METHODS el data collectors to carry out our mixed-	methods research.	

Step 5.) The following page will formulate.

IHME GHDx			GBD Results		Visualizations v					
Search			Results							
Explore results from the 2019 Global Bu Disease (GBD) study. For more info, ref © About section.	arden of fer to the	F.	GBD Results tool updates X	1				Sign in		
GBD Extinaste			Examining trands from 1990 to 2019, the Global Banden of Disease	1	ny					
Cause of death an injury		104	(GBD) study assesses mortality and disability from hundreds of		Year & D.	Value 8 9	Upper 5 9.	Lower ± 0.		
Measure D			diseases, injuries, and risk factors around the world.		2010			-		
Deaths 8 DAD'S X	0 V		The redesigned GBD Results tool allows you to download estimates from	- 1	2015	26.246.074.23		33,142382-		
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Number + Percent + Rate +	0 1	Dep	<ul> <li>Mortality and morbidity in 204 countries and territories</li> </ul>		2919	0.01	0.01	0.01		
Canana ()		DA	<ul> <li>369 diseases, injuries, and impairments</li> </ul>	2019	2.518.032.070.00	2.818.203.0				
All saurans ×	0 4		<ul> <li>87 risk factors</li> </ul>							
Invation		DA	To download estimates and access other features, please register and	- 11	2019	100.08	100.00			
Gobal X	0 -	DA	sign in.		2019	0.33	0.38	0.30		
Ace			Why register?							
All ages ×	0 v		<ul> <li>Reacch and developed any of the CEPI TYPE estimated</li> </ul>				< L			
Sea			<ul> <li>Receive iterative updates that personalize the tool and make it</li> </ul>							
	0 -		exeler to use.							
			<ul> <li>Help us ensure our data is being used as introded according to our</li> </ul>							
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Sign in to search			Already have an account?	1						
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Before pulling IHME data, you need to register for an account to access it. Click "Register" and the following page will formulate.

IHME
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.

IHME GHDx			GBD Results								
Search	Ξ	Resu	ults								
Explore results from the 2019 Global Burden Disease (GBD) study. For more info, refer to 7) About section.	plore results from the 2019 Global Burden of pease (GBD) study. For more info, refer to the										Sign out
GBD Estimate					0	ause of de	ath or inju	ny .			
Cause of death or injury	v	Measure 😄 🔍	Metric ‡ 9,	Cause ‡ 0,	Location ‡ 0.	Age 💠 🔍	Sex \$ 9.	Year ‡ Q	Value ÷ 0.	Upper 💠 🔍	Lower 💠 🔍
feasure 🛈		Deaths	Number	All causes	Global	All ages	Both sexes	2019	56,526,959.51	59,205,883	53,742,682
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etric		Ceaurs	Percent	Par causes	Ground	rai ages	DUALIT SEARES	2929	100.00	100.00	100.00
Number × Percent × Rate ×		Deaths	Rate	All causes	Global	All ages	Both sexes	2019	0.01	0.01	0.01
use 🗇		DALYs (Disabilit	Number	All causes	Global	All ages	Both sexes	2019	2,538,020,070.65	2,810,205,6	2,285,262,
All causes ×		DALYs (Disabilit	Percent	All causes	Global	All ages	Both sexes	2019	100.00	100.00	100.00
ocation											
Global ×		DALYs (Disabilit	Rate	All causes	Global	All ages	Both sexes	2019	0.33	0.36	0.30
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GRD 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.

← → C											
IHME GHDx			GBD Re	esults							
Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the	Results ⊞ Table ⊵ Charts ③ About										
GBD Estimate				C	ause of de	ath or injur	У				
Cause of death or injury	Measure 💠 🔍	Metric 💠 🔍	Cause 💠 🔍	Location 👙 🔍	Age 💠 🔍	Sex 💠 🔍	Year 💠 🔍				
Cause of death or injury O	Deaths	Number	All causes	Global	All ages	Both sexes	2019				
Risk factor ①	Deaths	Percent	All causes	Global	All ages	Both sexes	2019				
Etiology ①	Deaths	Rate	All causes	Global	All ages	Both sexes	2019				
Impairment ()	DALYs (Disabilit	Number	All causes	Global	All ages	Both sexes	2019				
Summary exposure value (SEV) ①	DALYs (Disabilit	Percent	All causes	Global	All ages	Both sexes	2019				
Health-adjusted life expectancy (HALE) () Injuries by nature ()	DALYs (Disabilit	Rate	All causes	Global	All ages	Both sexes	2019				
Population ①											
Fertility ①											
Life tables ①											
All-cause mortality ①											
Year											

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".

SIHME GHDx	GBD Results										
Search =	Results										
Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the ③ About section.	⊞ Table ⊭	Charts 💿	About								
GBD Estimate				C	ause of de	ath or injur	y				
Cause of death or injury	Measure 💠 🔍	Metric 💠 🔍	Cause 💠 🔍	Location $\ \ \diamondsuit \ \ \circlearrowright$	Age 💠 🔍	Sex 🔅 🔍	Year ‡				
Measure ①	Deaths	Number	All causes	Global	All ages	Both sexes	2019				
Deaths X	Deaths	Percent	All causes	Global	All ages	Both sexes	2019				
Deaths 🛈 🤨	Deaths	Rate	All causes	Global	All ages	Both sexes	2019				
DALYs (Disability-Adjusted Life Years) 🛈	DALVs (Disabilit	Number	All causes	Global	All ages	Both seves	2019				
YLDs (Years Lived with Disability)	DALIS (DISOUTIC	NUMBER	All Couses	Giobai	All ages	DOUT SEACS	2019				
VLLs (Years of Life Lost) ③	DALYs (Disabilit	Percent	All causes	Global	All ages	Both sexes	2019				
Prevalence ①	DALYs (Disabilit	Rate	All causes	Global	All ages	Both sexes	2019				
Incidence ①											
Maternal mortality ratio 🛈											

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".

NHME GHDX	GBD Results							
Search =	Results							
Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the ⑦ About section.	⊞ Table ∟	Charts ⑦	About		augo of doa			
GBD Estimate				C	ause of dea			
Cause of death or injury $$	Measure 👙 🔍	Metric 💠 🔍	Cause 💠 🔍	Location 💠 🔍	Age ≑ ୍			
Measure ①	Deaths	Number	All causes	Global	All ages			
Deaths ×	Deaths	Dercent	All causes	Global	All ages			
Metric ①	Deatris	Percent	All causes	Giobai	All ages			
Rate X	Deaths	Rate	All causes	Global	All ages			
Select all	DALYs (Disabilit	Number	All causes	Global	All ages			
Number	DALYs (Disabilit	Percent	All causes	Global	All ages			
Percent	DALYs (Disabilit	Rate	All causes	Global	All ages			
Rate								

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".

NHME GHDX		GBD Results									
Search	= -	Results									
Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the ⑦ About section.	=	Table 🗠	Charts 🕥 /	About							
GBD Estimate	<u>*</u>				C	ause or de	ath or injur	У			
Cause of death or injury V	м	easure 💠 🔍	Metric 💠 🔍	Cause 💠 🔍	Location 💠 🔍	Age 💠 🔍	Sex 💠 🔍	Year 💠 🔍			
Measure ①	D	eaths	Number	All causes	Global	All ages	Both sexes	2019			
Deaths × 0 V		asthe	Barcont	All courses	Glabal	All page	Both cover	2010			
Metric ①		eauis	Percent	All causes	Giobai	All ages	Doth sexes	2019			
Rate X	D	eaths	Rate	All causes	Global	All ages	Both sexes	2019			
Cause ① Required field	d D	ALYs (Disabilit	Number	All causes	Global	All ages	Both sexes	2019			
infant O	D	ALYs (Disabilit	Percent	All causes	Global	All ages	Both sexes	2019			
▼ All causes	D	ALYs (Disabilit	Rate	All causes	Global	All ages	Both sexes	2019			
<ul> <li>Non-communicable diseases</li> </ul>											
Other non-communicable diseases											
Sudden infant death syndrome											

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".

NIHME G	HDx		GBD Results										
Select all location	15												
Select all countri	es and territories	=	≡ Results										
Select all GBD re	gions		III Table 🗠 Charts 💿 About										
Select all GBD su	per regions												
- Global		-				C	ause of dea	ath or injur	y				
Select all			Managera A O		Cauco + 0	Location + 0	Ano + 0	East + 0	Vone				
Low SDI			Measure + ~	metric * «	Cause + 4	Location + <	Age + <	Sex + 4	rear				
Low-middle	e SDI		Deaths	Number	All causes	Global	All ages	Both sexes	2019				
Middle SD			Deaths	Percent	All causes	Global	All ages	Both sexes	2019				
High-midd	e SDI		Deaths	Rate	All causes	Global	All ages	Both sexes	2019				
High SDI			DALYs (Disabilit	Number	All causes	Global	All ages	Both sexes	2019				
Central Eu	ope, Eastern Europe, and baijan × Georgia ×		DALYs (Disabilit	Percent	All causes	Global	All ages	Both sexes	2019				
Kazakhstan × +	200 more	0 ^	DALYs (Disabilit	Rate	All causes	Global	All ages	Both sexes	2019				
Search													

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".

	GBD Results						
Search = Select all All ages	■ Table ビ Charts ⑦ About						
Age-standardized				c	ause of deat		
Birth	Measure 💠 🔍	Metric 👙 🔍	Cause 🜲 🔍	Location 👙 🔍	Age 💠 🔍		
☑ 0-6 days	Deaths	Number	All causes	Global	All ages		
☑ 7-27 days	Deaths	Percent	All causes	Global	All ages		
28 days	Deaths	Rate	All causes	Global	All ages		
0-9 years	DALYs (Disabilit	Number	All causes	Global	All ages		
0-14 years	DALYs (Disabilit	Percent	All causes	Global	All ages		
<1 year	DALYs (Disabilit	Rate	All causes	Global	All ages		
0-6 days X 7-27 days X 28-364 days X 0							

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	=	Results							
Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the ③ About section.		⊞ Table ⊻	Charts ⑦	About					
Measure ①					C	ause of dea	ati		
Deaths X 💿 V		Measure 💠 🔍	Metric 💠 🔍	Cause 👙 🔍	Location 💠 🔍	Age ≑ Q	s		
Metric ① Rate ×		Deaths	Number	All causes	Global	All ages	в		
Cause ①		Deaths	Percent	All causes	Global	All ages	В		
Sudden infant death syndrome X		Deaths	Rate	All causes	Global	All ages	в		
Location		DALYs (Disabilit	Number	All causes	Global	All ages	в		
Armenia ×     Azerbaijan ×     Georgia ×       Kazakhstan ×     +200 more		DALYs (Disabilit	Percent	All causes	Global	All ages	в		
Age		DALYs (Disabilit	Rate	All causes	Global	All ages	В		
0-6 days $\times$ $$ 7-27 days $\times$ $$ 28-364 days $\times$ $$ 0 $$ $$ $$									
Sex									
Both × O A									
Select all									
Male									
Female	Y								
Soth									

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.

	GBD Results							
Search Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the	E Table ₪	Lits Charts ⑦	About					
About section.     Select all				С	ause of dea	ath or inju		
☑ 1990	Measure 💠 🔍	Metric 💠 🔍	Cause 💠 🔍	Location $\Rightarrow$ $\bigcirc$	Age 💠 🔍	Sex 💠 🔍		
1991	Deaths	Number	All causes	Global	All ages	Both sexes		
1992	Deaths	Percent	All causes	Global	All ages	Both sexes		
1993	Deaths	Rate	All causes	Global	All ages	Both sexes		
2 1994	DALYs (Disabilit	Number	All causes	Global	All ages	Both sexes		
1995	DALYs (Disabilit	Percent	All causes	Global	All ages	Both sexes		
1996	DALYs (Disabilit	Rate	All causes	Global	All ages	Both sexes		
☑ 1997								
☑ 1998								
▼ 1999 1990 × 1991 × 1992 × 1993 ×								

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

#### in the left bottom corner.

IHME GHDx			GBD R	esults					Vis	ualizations 🗸	
Search =	Resu	lts									
Explore results from the 2019 Global Burden of Disease (GBD) study. For more info, refer to the	⊞ Table 🗠	Charts 🗇	About							Sign out	
About section.     Rate X		Cause of death or injury									
Cause ①	Measure © Q	Metric 0 9.	Cause 0 0.	Location 💠 🔍	Age 🔅 🔍	Sex 0 0.	Year © Q	Value 0 9.	Upper 😄 🔍	Lower © Q	
Sudden infant death syndrome X	Deaths	Number	All causes	Global	All ages	Both sexes	2019	56,526,959.51	59,205,883	53,742,682	
Armenia V Americana V Georgia V	Deaths	Percent	All causes	Global	All ages	Both sexes	2019	100.00	100.00	100.00	
Kazakhstan X +200 more	Deaths	Rate	All causes	Global	All ages	Both sexes	2019	0.01	0.01	0.01	
pe	DALYs (Disabilit	Number	All causes	Global	All ages	Both sexes	2019	2,538,020,070.65	2,810,205,6	2,285,262,	
0-6 days × 7-27 days × 28-364 days × © ∨	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	0.35	0.30	
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1990 × 1991 × 1992 × 1993 × +26 more 0 V											
Too many parameters selected to search.											
ownload CSV file with specified											
parameters.											
≟ Download ♂ Share											

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".

19 Global Burde nore info, refer to	n of to the	⊞ Table ⊯ Charts ⑦ About							
		Cause of death or injury							
		🗄 GBD Results download	×	Value	¢ 9,	Upp			
e X	• •			56,53	26,959.51	59,2			
Georgia X 💿 🗸		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.			100.00				
		commercial advantage, financial transaction, or monetary compensation. Review licensing options.			0.01				
		Include ID values (e.g. 101, 429) or names (e.g. Canada, Breast cancer)?		2,538,03	20,070.65	2,81			
28-364 days ×	0	○ IDs ○ Names ④ Both			100.00				
	0 ~	An analized by any the second s	1		0.33				
		An email will be sent to grant a link to download the data.							
1993 ×	• •	X Cancel V Subm	it						
ers selected to search the & Download	ch. d button.								

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 Da				н
Data Do	wnload			
	REQUEST DETAILS			
	Task ID: d45f2ade3937d8e13109ffaaca777e7f			
	View your download settings			
	DOWNLOAD STATUS			
	Pending Q	Processing	O Done!	
	processing	below	ready	
	YOUR DATA FILES			
	Note: Data files on this page are available to download for 7 days a	fter being created.		
	IHME data file #1 https://dl.baathdata.are:443/dbd-aei-2019-public/d45f2ada/93726	e13109ffaaca777e7f.ffiee/3e96-580_3019_D6Te-d49f2ade-1.zio	는 Download	

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