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The Institute for Health Metrics and Evaluation (IHME) provides data on the Global Burdens of Disease that can be accessed here <http://ghdx.healthdata.org/gbd-results-tool>. IHME provides data on multiple metrics that we pull into IFs, including deaths, DALYs, incidence, prevalence, violence and forecasts for each. The latest IFs data update for this series was in February 2024, covering 188 economies over the years 1990-2019.



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## IFs Series

There are currently 146 series that are pulled from the IHME into IFs. The latest data has been pulled from the report updated on February, 2024 by Python scripts.

## Instructions on Pulling IHME Series

### Preprocessors

#### Update in February 2024

The data can be accessed from the GBD tool at <http://ghdx.healthdata.org/gbd-results-tool>. You can download the data based on the table below for each series.

Variable	GBD Estimate	Measure	Metric	Cause	Location	Age	Sex	Year	Decimal Places
ViolencePoliticalConflictTerror	Cause of death or injury	Deaths	Rate	Conflict and terrorism	Select all countries and territories	All Ages	Both	Select all	4
ViolencePoliticalPoliceExecution	Cause of death or injury	Deaths	Rate	Executions and police conflict	Select all countries and territories	All Ages	Both	Select all	4
ViolenceSelfHarm	Cause of death or injury	Deaths	Rate	Self-harm	Select all countries and territories	All Ages	Both	Select all	4
SocietalViolenceDeathsTotal	Cause of death or injury	Deaths	Rate	Interpersonal violence + Conflict and terrorism + Executions and police conflict	Select all countries and territories	All Ages	Both	Select all	4
ViolenceInterpersonChild	Cause of death or injury	Deaths	Rate	Interpersonal violence	Select all countries and territories	0-14	Both	Select all	4
ViolenceInterpersonWomenAdult	Cause of death or injury	Deaths	Rate	Interpersonal violence	Select all countries and territories	20 +	Female	Select all	4
DrOpiodPrevIHME	Cause of death or injury	Prevalence	Percent	Opioid Use Disorders	Select all countries and territories	All Ages	Both	Select all	4
DrugPrevalenceAmphetaminesIHME	Cause of death or injury	Prevalence	Percent	Amphetamine Use Disorders	Select all countries and territories	All Ages	Both	Select all	5
DrugPrevalenceCocaineIHME	Cause of death or injury	Prevalence	Percent	Cocaine Use Disorders	Select all countries and territories	All Ages	Both	Select all	5
IHMEDthsHIV	Cause of death or injury	Deaths	Number	HIV/AIDs	Select all countries and territories	All Ages	Both	Select all	5
IHMEDthsMalar	Cause of death or injury	Deaths	Number	Malaria	Select all countries and territories	All Ages	Both	Select all	5
IHMEInciHIVNumber	Cause of death or injury	Incidence	Number	HIV/AIDs	Select all countries and territories	All Ages	Both	Select all	
IHMEInciMalariaNumber	Cause of death or injury	Incidence	Number	Malaria	Select all countries and territories	All Ages	Both	Select all	
IHMEPrevHIV	Cause of death or injury	Prevalence	Percent	HIV/AIDs	Select all countries and territories	All Ages	Both	Select all	3
IHMEPrevHIVNumber	Cause of death or injury	Prevalence	Number	HIV/AIDs	Select all countries and territories	All Ages	Both	Select all	
IHMEPrevMalariaNumber	Cause of death or injury	Prevalence	Number	Malaria	Select all countries and territories	All Ages	Both	Select all	

Note: ViolenceInterpersonChild & ViolenceInterpersonWomenAdult have changed a lot, we identify the Age by comparing the trend of old data in IFsHistSeries and the new data from GBD.

## Additional IHME Series

### Life Expectancy

Life expectancy data can be pulled from

<https://ghdx.healthdata.org/record/ihme-data/gbd-2019-life-tables-1950-2019>. Just download Life Tables: Age < 1 year and use the IHME\_GBD\_2019\_LIFE\_TABLES\_1950\_2019\_ID\_28\_NOSHOCK\_Y2020M07D31.CSV (28 means "Age Group < 1 year").

Variable	Age	Sex	Year	Metric Name	Decimal Places
LifeExpectIHMEBothSexesHistOnly	< 1 year	Both	1950-2019	Years	3
LifeExpectIHMEMaleHistOnly	< 1 year	Male	1950-2019	Years	3
LifeExpectIHMEFemaleHistOnly	< 1 year	Female	1950-2019	Years	3

## Infant Mortality

Life expectancy data can be pulled from two different sources depending on the series. You can download the data by age group.

Variable	Age	Sex	Year	Decimal Places	Source
InfMortRateIHME	Summation of neonatal, 1-5 month, and 6-11 month	Both	1950-2019	4	<a href="https://ghdx.healthdata.org/record/ihme-data/global-burden-disease-study-2019-gbd-2019-under-5-mortality-detailed-age-groups-1950-2019">https://ghdx.healthdata.org/record/ihme-data/global-burden-disease-study-2019-gbd-2019-under-5-mortality-detailed-age-groups-1950-2019</a>
Under5MortRateIHME	Under 5	Both	1950-2019	4	<a href="https://ghdx.healthdata.org/record/ihme-data/gbd-2019-mortality-estimates-1950-2019">https://ghdx.healthdata.org/record/ihme-data/gbd-2019-mortality-estimates-1950-2019</a>

Note: InfMortRateIHME must be manually added together, the data can only be downloaded by separate age groups.

## Things to Be Aware of While Pulling

1. For the historical deaths by disease series, the data are in millions in IFs. So you will need to do this conversion before you import.
2. Be aware of the definition of each preprocessor and its unit so that you can find the exact match in the IHME GBD variables.
3. Some regions in IFs are not provided by IHME yet, we are encouraged to use proxies. For example, use China, Albania, and Morocco for Hong Kong, Kosovo, and Sahrawi respectively. Be mindful that for tables with units in rate or percent, proximal values can be directly applied; however, when values are in numbers or headcounts, you will need to borrow the population figures to apply values proportionally.

## August 2019 Update

For the 2019 update, we have added historical deaths by disease by sex data for the years 1990-2017. These are new series, as we only had totals and not aggregated by sex.

## HealthDetailedDeathsCtry in IFs.db

Note that this table in IFs.db cannot handle Null values. Instead, replace Nulls with 0s.

## February 2024 Update

Original Source: VizHub - GBD Results (healthdata.org)

GBD Estimate: Cause of death or injury

Measure: Deaths

Metric: Rate

Cause: Select all level 2 causes (*note: "Sense organ disease" is not available for Deaths Rate*)

CauseID	Cause	cause_name	category
1	Other CD	Other infectious diseases	Communicable, maternal, neonatal, and nutritional diseases
1	Other CD	Maternal and neonatal disorders	Communicable, maternal, neonatal, and nutritional diseases
1	Other CD	Nutritional deficiencies	Communicable, maternal, neonatal, and nutritional diseases
2	Malignant Neoplasms	Neoplasms	Communicable, maternal, neonatal, and nutritional diseases
3	Cardiac	Cardiovascular diseases	Communicable, maternal, neonatal, and nutritional diseases
4	Digestive	Digestive diseases	Communicable, maternal, neonatal, and nutritional diseases
5	Respiratory	Chronic respiratory diseases	Communicable, maternal, neonatal, and nutritional diseases
6	Other NCD	Neurological disorders	Non-communicable
6	Other NCD	Substance use disorders	Non-communicable
6	Other NCD	Skin and subcutaneous diseases	Non-communicable
6	Other NCD	Sense organ diseases	Non-communicable
6	Other NCD	Musculoskeletal disorders	Non-communicable
6	Other NCD	Other non-communicable diseases	Non-communicable
7	Road Injuries	Transport injuries	Non-communicable
8	Other Unintentional Injuries	Unintentional injuries	Non-communicable
9	Intentional Injuries	Self-harm and interpersonal violence	Non-communicable
10	Diabetes	Diabetes and kidney diseases	Non-communicable
11	HIV	HIV/AIDS and sexually transmitted infections	Non-communicable
12	Diarrhea	Enteric infections	Non-communicable
13	Malaria	Neglected tropical diseases and malaria	Injuries
14	Respiratory Infection	Respiratory infections and tuberculosis	Injuries
15	Mental Health	Mental disorders	Injuries

Location: Select all countries and territories

Age: Select the values in Age\_Name

IHME_Age_ID	Age_Name	Age_IFs
5	1 to 4	p2
6	5 to 9	p3
7	10 to 14	p4
8	15 to 19	p5
9	20 to 24	p6
10	25 to 29	p7
11	30 to 34	p8
12	35 to 39	p9
13	40 to 44	p10
14	45 to 49	p11
15	50 to 54	p12
16	55 to 59	p13
17	60 to 64	p14
18	65 to 69	p15
19	70 to 74	p16
20	75 to 79	p17
28	<1 year	p1
30	80 to 84	p18
31	85 to 89	p19
32	90 to 94	p20
235	95 +	p21

Sex: Male(1), Female(2)

Year: 2019 (Use the most recent available year.)

The Source Unit is Deaths per 100,000.  
(IHME\_GBD\_2019\_A3\_MEASURE\_METRIC\_DEFINITIONS\_Y2020M10D15.XLSX (live.com)  
from Global Burden of Disease (GBD) data and tools guide | Institute for Health Metrics and  
Evaluation (healthdata.org))

Need to use Formula /100 to transform the Unit to Deaths per 1,000.

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