



Institute for Health Metrics and Evaluation

Data Release Information Sheet

Data Summary

Dataset name: Global Burden of Disease 2021 (GBD2021) Tuberculosis Estimates 1990-2021

Date of release: March 19, 2024

Summary:

The Global Burden of Disease Study 2021 (GBD 2021), 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 dataset includes estimates of the burden associated with all-form tuberculosis for Global Burden of Disease Study (GBD) countries between 1990 and 2021. Tuberculosis mortality was informed by vital registration, verbal autopsy, sample-based vital registration, and mortality surveillance data. Tuberculosis morbidity data included annual case notifications, data from prevalence surveys, and estimated cause specific mortality (CSMR) of TB among HIV-positive and HIV-negative individuals.

Relevant publications and visualizations:

Ledesma JR, Ma J, Zhang M, Basting AVL, Chu HT, Vongpradith A, et al. Global, regional, and national age-specific progress towards the 2020 milestones of the WHO End TB Strategy: a systematic analysis for the Global Burden of Disease Study 2021. *The Lancet Infectious Diseases*. 19 March 2024.

Acknowledgements

Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME)

Funders:

- Bill and Melinda Gates Foundation (BMGF)

Suggested Citation:

Institute for Health Metrics and Evaluation (IHME). Global Burden of Disease 2021 (GBD2021) Tuberculosis Estimates 1990-2021. Seattle, United States of America: Institute for Health Metrics and Evaluation (IHME), 2024.

Data Files Information

File Inventory

File Name	Description	Version Date
IHME_GBD_2021_TB_INCIDENCE_GLOBAL_Y2024M03D19.CSV	GBD 2021 incidence and mortality (rates and counts) global estimates for all-form TB by age, sex for 2021	March 19, 2024
IHME_GBD_2021_TB_INCIDENCE_MORTALITY_COUNTRY_Y2024M03D19.CSV	GBD 2021 incidence and mortality rate estimates for all-form TB by age, both sex by country for 2021	March 19, 2024
IHME_GBD_2021_TB_INCIDENCE_MORTALITY_COUNTY_Y2024M03D19.XLSX	GBD 2021 incidence and mortality count estimates for all-form TB by age, both sex by country and region for 2021 (note: codebook specific to this file included in the second tab)	March 19, 2024
IHME_GBD_2021_TB_INCIDENCE_MORTALITY_2015_2020_Y2024M03D19.XLSX	GBD 2021 incidence and mortality (rates and counts) global, regional, and country estimates for all-form TB by age, both sex for 2015, 2020, and 2021 (note: codebook specific to this file included in the second tab)	March 19, 2024
IHME_GBD_2021_TB_INCIDENCE_MORTALITY_GLOBAL_TIME_TREND_Y2024M03D19.CSV	GBD 2021 global age-specific all-form tuberculosis incidence rate and death counts 1990-2021, males and females	March 19, 2024
IHME_GBD_2021_TB_INCIDENCE_MORTALITY_TOP20_TIME_TREND_Y2024M03D19.CSV	GBD 2021 all-form tuberculosis incidence rate and death counts 1990-2021 for the top 20 high burden countries	March 19, 2024
IHME_GBD_2021_TB_MORTALITY_EXCESS_Y2024M03D19.XLS	GBD 2021 observed and expected deaths due to tuberculosis without HIV coinfection in 2020 and 2021 by age, for countries with available cause-specific vital registration data (note: codebook specific to this file included in the second tab)	March 19, 2024

File Name	Description	Version Date
IHME_GBD_2021_TB_MORTALITY_RISK_Y2024M03D19.XLSX	Risk deleted deaths due to all-form tuberculosis for alcohol use, smoking, and diabetes, and all three risk factors combined by adult age groups by country for 2015, 2020, and 2021 (note: codebook specific to this file included in the second tab)	March 19, 2024
IHME_GBD_2021_TB_CODEBOOK_Y2024M03D19.XLSX	Codebook	March 19, 2024
IHME_GBD_2021_TB_INFO_SHEET_Y2024M03D19.PDF	Data Release Information Sheet	March 19, 2024

Variable Information

Variable	Variable Label	Variable Definition
measure_id	Measure ID	A unique numeric identifier for the measure generated and stored in an IHME database of data dimensions.
measure_name	Measure Name	The measure (indicator) for the estimate.
location_id	Location ID	A unique numeric identifier for the location generated and stored in an IHME database of data dimensions.
location_name	Location Name	The location for the estimate.
sex_id	Sex ID	A unique numeric identifier for the sex generated and stored in an IHME database of data dimensions.
sex_name	Sex Name	The gender for the estimate.
age_group_id	Age Group ID	A unique numeric identifier for the age group generated and stored in an IHME database of data dimensions.
age_group_name	Age Group Name	The age group for the estimate.
cause_id	Cause ID	A unique numeric identifier for the cause generated and stored in an IHME database of data dimensions

Variable	Variable Label	Variable Definition
cause_name	Cause name	The primary disease or injury for the estimate
year_id	Year ID	The time period for the estimate.
metric_id	Metric ID	A unique numeric identifier for the metric.
metric_name	Metric Name	The metric/unit of measure for the estimate.
val	Value	Mean estimate.
upper	95% Uncertainty Interval (Upper Bound)	97.5% percentile estimate.
lower	95% Uncertainty Interval (Lower Bound)	2.5% percentile estimate.

Additional Information

Terms and Conditions

<https://www.healthdata.org/data-tools-practices/data-practices/terms-and-conditions>

Contact Information

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

Address:

Institute for Health Metrics and Evaluation
Population Health Building/Hans Rosling Center
3980 15th Ave. NE, Seattle, WA 98195 USA
UW Campus Box #351615

Telephone: +1-206-897-2800

Fax: +1-206-897-2899

Email: data@healthdata.org

Website: www.healthdata.org

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