



# Institute for Health Metrics and Evaluation

## Data Release Information Sheet

### ***Data Summary***

Dataset name: Brazil HIV and Tuberculosis Mortality Rates by Municipality 2001-2015

Date of release: September 6, 2018

#### Summary:

Research by IHME and the Department of Health Surveillance, Brazil Ministry of Health produced estimates for age-standardized mortality rates by Brazil municipality for HIV/AIDS and tuberculosis. The estimates were generated using de-identified death records from the Brazil Mortality Information System (SIM); case notification data from the Brazil national notification system (SINAN); standardization of vital registration of data based on GBD 2016 methodology; and the application of small area estimation models.

This dataset provides estimates for age-standardized mortality rates by cause and sex at the state level and the municipality level for each state for 2001-2015. Study results were published in *BMC Medicine* in September 2018 in "Progress toward eliminating TB and HIV deaths in Brazil, 2001–2015: a spatial assessment."

#### Relevant publications and visualizations:

- Ross JM, Henry NJ, Dwyer-Lindgren LA, de Paula Lobo A, de Souza FM, et al. Progress toward eliminating TB and HIV deaths in Brazil, 2001–2015: a spatial assessment. *BMC Medicine*. 6 September 2018.

### **Acknowledgements**

#### Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME)
- Secretariat of Health Surveillance, Ministry of Health (Brazil)

#### Funders:

- Bill and Melinda Gates Foundation (BMGF)

Suggested Citation:

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**Data Files Information**

**CSV Files**

These machine-readable data files contain estimates for the age-standardized mortality rate (deaths per 100,000 population) for each sex and both sexes combined for each year in the period 2001-2015.

The files contain unique numeric identifiers as well as text labels for locations, age groups, causes, and other dimensions of the data.

<b>Variable</b>	<b>Variable Label</b>	<b>Variable Definition</b>
measure_id	Measure ID	Unique numeric identifier for the measure generated and stored in an IHME database of data dimensions
measure_name	Measure Name	The measure (indicator) of the estimate
ibge_code	Municipality ID	Unique numeric identifier for municipalities in Brazil. Also known as IGBE code, this coding comes from the Instituto Brasileiro de Geografia e Estatística (IBGE) [Brazilian Institute of Geography and Statistics]
muni_name	Municipality Name	Name of the Brazilian municipality of the estimate
state_id	Location ID	Unique numeric identifier for the location (Brazilian states, in this instance) generated and stored in an IHME database of data dimensions
state	State Name	Name of the Brazilian state of an estimate, or in which a municipality is located
cause_id	Cause ID	Unique numeric identifier for the cause of disease or injury generated and stored in an IHME database of data dimensions
cause_name	Cause Name	Cause of disease or injury of the estimate

sex_ID	Sex ID	Unique numeric identifier for the sex generated and stored in an IHME database of data dimensions
sex	Sex Name	Gender for the estimate
age_ID	Age ID	Unique numeric identifier for the age group generated and stored in an IHME database of data dimensions
age_name	Age Name	Age group estimated
year	Year	Time period of estimate
metric	Metric	Metric/unit of measure for the estimate
mx	Value	Posterior mean estimate
lower	95% Uncertainty Interval - Lower Bound	2.5% percentile estimate
upper	95% Uncertainty Interval – Upper Bound	97.5% percentile estimate

## Codebooks

Variable names, labels, and value encoding for municipal-level estimates by state can be found in the machine-actionable codebook file

[IHME\\_BRA\\_MUNI\\_TB\\_HIV\\_MORT\\_2001\\_2015\\_CODEBOOK\\_MUNI\\_Y2018M09D06\\_Y2018M09D06.CSV](#)

Variable names, labels, and value encoding for state-level estimates by state can be found in the machine-actionable codebook file

[IHME\\_BRA\\_MUNI\\_TB\\_HIV\\_MORT\\_2001\\_2015\\_CODEBOOK\\_STATE\\_Y2018M09D06\\_Y2018M09D06.CSV](#)

## *Additional Information*

### Terms and Conditions

<http://www.healthdata.org/about/terms-and-conditions>

## Contact information

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

Institute for Health Metrics and Evaluation

2301 Fifth Ave., Suite 600

Seattle, WA 98121

USA

Telephone: +1-206-897-2800

Fax: +1-206-897-2899

Email: [data@healthdata.org](mailto:data@healthdata.org)

[www.healthdata.org](http://www.healthdata.org)

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