



Institute for Health Metrics and Evaluation

Data Release Information Sheet

Data Summary

Dataset name: Sub-Saharan Africa HIV Incidence and Mortality Geospatial Estimates 2000-2018

Date of release: June 1, 2021

Summary:

Annual estimates were produced for HIV incidence and mortality among adults ages 15-49 at the 5x5 km-level for 44 countries in sub-Saharan Africa between 2000 and 2018. These estimates were produced using a geo-positioned dataset created from 541 sources representing antiretroviral treatment data in UNAIDS Spectrum country files, country-level reports from the Health Management Systems database, and PEPFAR data; HIV seroprevalence surveys; ANC Sentinel Surveillance data; covariate surveys; and country specific surveys.

This dataset includes the following:

- CSV files of aggregated incidence and mortality estimates for each country at zero, first and second administrative divisions
- Code files used to generate the estimates

Relevant publications and visualizations:

- Local Burden of Disease HIV Collaborators. Subnational mapping of HIV incidence and mortality among individuals aged 15–49 years in sub-Saharan Africa, 2000–18: a modelling study. *The Lancet HIV*. 1 Jun 2021.
- [Local Burden of Disease – Sub-Saharan Africa HIV Incidence and Mortality](#)

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). Sub-Saharan Africa HIV Incidence and Mortality Geospatial Estimates 2000-2018. Seattle, United States of America: Institute for Health Metrics and Evaluation (IHME), 2021.

Data Files Information

CSV files of Aggregated Estimates of Adult HIV Incidence and Mortality

Stored in files named <MEASURE>_<LEVEL_OF_AGGREGATION>.CSV

(Example: IHME_SSA_HIV_INC_MORT_2000_2018_ **INCIDENCE_ADMIN_1**_Y2021M01D26.CSV)

- **Measure:** HIV incidence, HIV mortality
- **Level of aggregation:** admin0, admin1, or admin2, corresponding to first and second administrative level areas as defined in the Database of Global Administrative Areas (GADM) 2020_02_20 shapefiles, with adjustments made in some countries. Each row in each table is unique by administrative unit and year

Variable	Variable Label	Variable Definition
ADM0_CODE	GADM Admin 0 Code	GADM code identifying the administrative unit
ADM0_NAME	Admin 0 Name	Zero level administrative unit (Country) name as found in the GADM shapefile
ADM1_CODE	GADM Admin 1 Code	GADM code identifying the administrative unit (Only in the admin1 files)
ADM1_NAME	Admin 1 Name	First level administrative unit name as found in the GADM shapefile
ADM2_CODE	GADM Admin 2 Code	GADM code identifying the administrative unit (Only in the admin2 files)
ADM2_NAME	Admin 2 Name	Second level administrative unit name as found in the GADM shapefile (Only in the admin2 files)
year	Year	Time period of estimate. Possible values: years in the range 2000-2018
age_group_id	Age Group ID	Unique numeric identifier for the age group generated and stored in an IHME database of data dimensions. Possible values: 24
age_group_name	Age Group Name	Age group estimated. Possible values: 15-49 years
sex_id	Sex ID	Unique numeric identifier for the sex generated and stored in an IHME database of data dimensions. Possible values: 3
sex	Sex	Sex estimated: Possible values: Both
measure	Measure	The measure (indicator) estimated. Possible values: <ul style="list-style-type: none"> • HIV Incidence • HIV Mortality
metric	Metric	Metric/unit of measure for the estimate. Values: Count, Rate
mean	Mean	Mean posterior population-weighted estimate for the administrative unit.
lower	Lower Confidence Interval	2.5% population-weighted posterior quantile estimate for the administrative unit.

Variable	Variable Label	Variable Definition
upper	Upper Confidence Interval	97.5% population-weighted posterior quantile estimate for the administrative unit.

Codebooks

Variable names, labels, and value encoding for admin 0 files can be found in the machine-actionable codebook file [IHME_SSA_HIV_INC_MORT_2000_2017_CODEBOOK_ADMIN_0_Y2020M08D12.CSV](#)

Variable names, labels, and value encoding for admin 1 files can be found in the machine-actionable codebook file [IHME_SSA_HIV_INC_MORT_2000_2017_CODEBOOK_ADMIN_1_Y2020M08D12.CSV](#)

Variable names, labels, and value encoding for admin 2 files can be found in the machine-actionable [IHME_SSA_HIV_INC_MORT_2000_2017_CODEBOOK_ADMIN_2_Y2020M08D12.CSV](#)

Data Input Sources

This file contains relevant metadata about the input sources as suggested in the [Guidelines for Accurate and Transparent Health Estimates Reporting \(GATHER\)](#), a statement that promotes best practices in reporting health estimates.

[IHME_SSA_HIV_INC_MORT_2000_2017_DATA_INPUT_SOURCES_Y2020M08D12.XLSX](#)

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

www.healthdata.org

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