



Institute for Health Metrics and Evaluation

Data Release Information Sheet

Data Summary

Dataset name: Africa Exclusive Breastfeeding Prevalence Geospatial Estimates 2000-2017

Date of release: July 22, 2019

Summary:

Estimates were produced for exclusive breastfeeding (EBF) prevalence among infants under 6 months of age at the 5x5 km-level in 49 countries in Africa between 2000-2017. These estimates were produced using data extracted from 188 household surveys that had complete records of questions relating to infant feeding and geographical information. The surveys include the Demographic and Health Survey (DHS), Multiple Indicator Cluster Survey (MICS), and country-specific and other multinational surveys.

This dataset includes the following:

- GeoTIFF raster files for pixel-level estimates of EBF prevalence
- CSV files of aggregated estimates for each country at the zero, first, and second administrative divisions
- Code files used to generate the estimates

Relevant publications and visualizations:

- Bhattacharjee NV, Schaeffer LE, Marczak LB, Ross JM, Swartz SJ, Albright J, et al. Mapping exclusive breastfeeding in Africa between 1 2000 and 2017. *Nature Medicine*. 22 July 2019.
- [Local Burden of Disease - EBF](#)

Acknowledgements

Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME)

Funders:

- Bill and Melinda Gates Foundation (BMGF)
- National Institutes of Health (NIH)

Suggested Citation:

Institute for Health Metrics and Evaluation (IHME). Africa Exclusive Breastfeeding Prevalence Geospatial Estimates 2000-2017. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2019.

Data Files Information

CSV files of Aggregated Estimates of HIV Prevalence and PLHIV

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

(Example: IHME_AFRICA_EBF_2000_2017_PREV_ADMIN_1_Y2019M07D01.CSV)

- **Measure:** Prevalence (%) (children are exclusively breastfed)
- **Level of aggregation:** admin0, admin1, or admin2, corresponding to first and second administrative level areas as defined in the 2014_2015 FAO Global Administrative Unit Layers (GAUL) shapefiles, with minor adjustments made where names were missing in the original shapefile. Each row in each table is unique by administrative unit and year

Variable	Variable Label	Variable Definition
ADM0_CODE	GAUL Admin 0 Code	GAUL code identifying the administrative unit
ADM0_NAME	Admin 0 Name	Zero level administrative unit (Country) name as found in the GAUL shapefile
ADM1_CODE	GAUL Admin 1 Code	GAUL code identifying the administrative unit (Only in the admin1 files)
ADM1_NAME	Admin 1 Name	First level administrative unit name as found in the GAUL shapefile
ADM2_CODE	GAUL Admin 2 Code	GAUL code identifying the administrative unit (Only in the admin2 files)
ADM2_NAME	Admin 2 Name	Second level administrative unit name as found in the GAUL shapefile (Only in the admin2 files)
year	Year	Time period of estimate. Possible values: years in the range 2000-2017
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: 390
age_group_name	Age Group Name	Age group estimated. Possible values: <6 months
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: EBF prevalence
metric	Metric	Metric/unit of measure for the estimate. Values: Percent

Variable	Variable Label	Variable Definition
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
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_AFRICA_EBF_2000_2017_CODEBOOK_PREV_ADMIN_0_Y2019M07D01.CSV](#)

Variable names, labels, and value encoding for admin 1 files can be found in the machine-actionable codebook file [IHME_AFRICA_EBF_2000_2017_CODEBOOK_PREV_ADMIN_1_Y2019M07D01.CSV](#)

Variable names, labels, and value encoding for admin 2 files can be found in the machine-actionable [IHME_AFRICA_EBF_2000_2017_CODEBOOK_PREV_ADMIN_2_Y2019M07D01.CSV](#)

GeoTIFF Raster Files for Pixel-level Estimates of EBF Prevalence

Stored in files named <MEASURE>_<STAT>_<YEAR>.TIF

(Example: IHME_AFRICA_EBF_2000_2017_PREV_MEAN_2015_Y2019M07D01.TIF)

- **Measure:** Prevalence (%) (children are exclusively breastfed)
- **Stat:** mean, upper, or lower summary statistics from the predictive posterior distribution at each pixel. Lower and upper correspond to 2.5% and 97.5% quantiles
- **Year:** From 2000 to 2017, corresponding to the time period of the estimate

Note that rasters mask (i.e., have NA values) for lakes and areas with low population (10 people per 1km and classified as barren/sparsely vegetated).

Data Input Sources

This CSV 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.

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.