

Data Release Information Sheet

Data Summary

<u>Dataset name</u>: Low- and Middle-Income Country Overweight and Wasting Geospatial Estimates 2000-2017

Date of release: April 20, 2020

Summary:

Annual estimates were produced for overweight and wasting prevalence for children under 5 years of age at the 5x5 km-level for 105 low- and middle-income countries (LMICs) between 2000-2017. These estimates were produced using a geo-positioned dataset created from 420 household surveys. Survey sources used include the Demographic and Health Survey (DHS) and UNICEF Multiple Indicator Cluster Survey (MICS) series, and other country-specific surveys.

This dataset includes the following:

- GeoTIFF raster files for pixel-level estimates of under-5 overweight and wasting prevalence
- CSV files of aggregated overweight and wasting prevalence for each country at zero, first and second administrative divisions
- Code files used to generate the estimates

Get Data Files

Relevant publications and visualizations:

- Local Burden of Disease Child Growth Failure Collaborators. Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017. *Nature Medicine*. 20 April 2020.
- Local Burden of Disease Double Burden of Malnutrition

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). Mapping local patterns of childhood overweight and wasting in low- and middle-income countries between 2000 and 2017. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

Data Files Information

NOTE: The estimates for Egypt, Sudan, and the Hala'ib Triangle have been updated since the October 2019 publication.

CSV files of Aggregated Estimates of Childhood Overweight and Wasting

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

(Example: IHME_LMIC_DBM_2000_2017_OVERWEIGHT_PREV_ADMIN_1_Y2020M02D29.CSV)

- **Measure**: Prevalence (%) (overweight and wasting)
- 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)
 2018 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 2000-2017
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: 1
age_group_name	Age Group Name	Age group estimated. Possible values: Under 5

Variable	Variable Label	Variable Definition
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:
		 Overweight prevalence
		 Wasting prevalence
metric	Metric	Metric/unit of measure for the estimate.
		Values: Percent
mean	Mean	Mean posterior population-weighted estimate
		for the administrative unit
upper	Upper Confidence Interval	97.5% population-weighted posterior quantile
		estimate for the administrative unit
lower	Lower Confidence Interval	2.5% population-weighted posterior quantile
		estimate for the administrative unit
cirange	Confidence Interval Range	Numeric range between the upper and lower
		confidence intervals for a given row

Codebooks

Variable names, labels, and value encoding for admin 0 files can be found in the machine-actionable codebook file IHME_LMIC_DBM_2000_2017_CODEBOOK_ADMIN_0_Y2020M02D29.CSV

Variable names, labels, and value encoding for admin 1 files can be found in the machine-actionable codebook file IHME_LMIC_ DBM_2000_2017_CODEBOOK_ADMIN_1_Y2020M02D29.CSV

Variable names, labels, and value encoding for admin 2 files can be found in the machine-actionable IHME_LMIC_ DBM_2000_2017_CODEBOOK_ADMIN_2_Y2020M02D29.CSV

GeoTIFF Raster Files for Pixel-level Estimates of Childhood Overweight and WastingStored in files named <MEASURE>_<STAT>_<YEAR>.TIF

(Example: IHME_LMIC_DBM_2000_2017_WASTING_PREV_MEAN_2003_Y2020M02D29.TIF)

- Measure: Prevalence (%) (Overweight and Wasting)
- **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). Rasters are stacked, with a layer for each year from 2000-2017. The first layer corresponds to 2000, the 18th layer corresponds to 2017.

Disputed Territories

Information on disputed territories, including to which countries disputed territories are attributed, is available in this file: IHME_LMICS_DBM_2000_2017_DISPUTED_TERRITORIES_Y2020M02D29.XLSX

Data Input Sources

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

IHME_LMIC_DBM_2000_2017_DATA_INPUT_SOURCES_Y2020M02D29.XLSX

Additional Information

Terms and Conditions

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

Contact information

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