Data Release Information Sheet

Data Summary


Date of release: August 31, 2020

Summary:
Annual estimates were produced for overweight prevalence for children under 5 years of age at the 5x5 km-level for 105 low- and middle-income countries (LMICs) between 2000 and 2019. 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. Countries and subnational units outside of these 105 LMICs were supplemented with GBD results.

This dataset includes the following:

- GeoTIFF raster files for pixel-level estimates of under-5 overweight prevalence for 105 LMICs
- CSV files of aggregated for 195 countries at the national level, 105 LMICs plus GBD subnational locations at the first-level administrative divisions, and 105 LMICs at the second level administrative divisions
- Code files used to generate the estimates

Get Data Files

Acknowledgements

Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME)

Funders:

- Bill and Melinda Gates Foundation (BMGF)
Suggested Citation:

Data Files Information

CSV files of Aggregated Estimates of Childhood Overweight

Stored in files named <MEASURE>_<_SEX>_<_LEVEL_OF_AGGREGATION>_CSV

(Example: IHME_GLOBAL_OVERWEIGHT_2000_2019_PREV_FEMALE_ADMIN_1_Y2020M08D31.CSV)

- Measure: Overweight prevalence
- Sex: Male, Female, Both
- 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.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Variable Label</th>
<th>Variable Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADM0_CODE</td>
<td>GADM Admin 0 Code</td>
<td>GADM code identifying the administrative unit</td>
</tr>
<tr>
<td>ADM0_NAME</td>
<td>Admin 0 Name</td>
<td>Zero level administrative unit (Country) name as found in the GADM shapefile</td>
</tr>
<tr>
<td>ADM1_CODE</td>
<td>GADM Admin 1 Code</td>
<td>GADM code identifying the administrative unit (Only in the admin1 files)</td>
</tr>
<tr>
<td>ADM1_NAME</td>
<td>Admin 1 Name</td>
<td>First level administrative unit name as found in the GADM shapefile</td>
</tr>
<tr>
<td>ADM2_CODE</td>
<td>GADM Admin 2 Code</td>
<td>GADM code identifying the administrative unit (Only in the admin2 files)</td>
</tr>
<tr>
<td>ADM2_NAME</td>
<td>Admin 2 Name</td>
<td>Second level administrative unit name as found in the GADM shapefile (Only in the admin2 files)</td>
</tr>
<tr>
<td>year</td>
<td>Year</td>
<td>Time period of estimate. Possible values: years in the range 2000-2019</td>
</tr>
<tr>
<td>age_group_id</td>
<td>Age Group ID</td>
<td>Unique numeric identifier for the age group generated and stored in an IHME database of data dimensions. Possible values: 1</td>
</tr>
<tr>
<td>age_group_name</td>
<td>Age Group Name</td>
<td>Age group estimated. Possible values: Under 5</td>
</tr>
<tr>
<td>sex_id</td>
<td>Sex ID</td>
<td>Unique numeric identifier for the sex generated and stored in an IHME database of data dimensions. Possible values: 1, 2, 3</td>
</tr>
<tr>
<td>sex</td>
<td>Sex</td>
<td>Sex estimated: Possible values: Male, Female, Both</td>
</tr>
<tr>
<td>measure</td>
<td>Measure</td>
<td>The measure (indicator) estimated. Possible values:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Prevalence</td>
</tr>
<tr>
<td>Variable</td>
<td>Variable Label</td>
<td>Variable Definition</td>
</tr>
<tr>
<td>----------</td>
<td>----------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>metric</td>
<td>Metric</td>
<td>Metric/unit of measure for the estimate. Values: Percent</td>
</tr>
<tr>
<td>mean</td>
<td>Mean</td>
<td>Mean posterior population-weighted estimate for the administrative unit</td>
</tr>
<tr>
<td>upper</td>
<td>Upper Confidence Interval</td>
<td>97.5% population-weighted posterior quantile estimate for the administrative unit</td>
</tr>
<tr>
<td>lower</td>
<td>Lower Confidence Interval</td>
<td>2.5% population-weighted posterior quantile estimate for the administrative unit</td>
</tr>
<tr>
<td>cirange</td>
<td>Confidence Interval Range</td>
<td>Numeric range between the upper and lower confidence intervals for a given row</td>
</tr>
</tbody>
</table>

**Codebooks**
Variable names, labels, and value encoding for admin 0 files can be found in the machine-actionable codebook file `IHME_GLOBAL_OVERWEIGHT_2000_2019_CODEBOOK_ADMIN_0_Y2020M08D31.CSV`

Variable names, labels, and value encoding for admin 1 files can be found in the machine-actionable codebook file `IHME_GLOBAL_OVERWEIGHT_2000_2019_CODEBOOK_ADMIN_1_Y2020M08D31.CSV`

Variable names, labels, and value encoding for admin 2 files can be found in the machine-actionable `IHME_GLOBAL_OVERWEIGHT_2000_2019_CODEBOOK_ADMIN_2_Y2020M08D31.CSV`

**GeoTIFF Raster Files for Pixel-level Estimates of Childhood Overweight and Wasting**
Stored in files named `<MEASURE>_<METRIC>_<SEX>_<STAT>_<YEAR>.TIF`


- **Measure**: Overweight prevalence
- **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 2019, 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 file contains relevant metadata about the input sources as suggested in the [Guidelines for Accurate and Transparent Health Estimates Reporting (GATHER)](https://guidelines.gather.org), a statement that promotes best practices in reporting health estimates.

**Additional Information**

**Terms and Conditions**
[http://www.healthdata.org/about/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](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.