



Institute for Health Metrics and Evaluation

Data Release Information Sheet

Data Summary

Dataset name: Senegal, Mali, and Sierra Leone Oral Rehydration Therapy Geospatial Estimates 2000-2018

Date of release: December 21, 2020

Summary:

Annual estimates were produced for oral rehydration therapy coverage for children under 5 years of age who had diarrhea at the second administrative-level unit in Senegal, Mali, and Sierra Leone between 2000–2018. These estimates were produced using a geo-positioned dataset created from 23 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:

- CSV files of aggregated oral rehydration therapy coverage estimates at the second administrative level. Estimates are provided for three measures: Any oral rehydration solutions, Recommended home fluids only, and No oral rehydration therapy
- Code files used to generate the estimates

Relevant publications and visualizations:

- Wiens KE, Schaeffer LE, Sow SO, Ndoye B, Cain CJ, Baumann MM, et al. Oral rehydration therapies in Senegal, Mali, and Sierra Leone: a spatial analysis of changes over time and implications for policy. *BMC Medicine*. 21 Dec 2020.
- <https://vizhub.healthdata.org/lbd/ort>

Acknowledgements

Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME)

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- Bill and Melinda Gates Foundation (BMGF)

Suggested Citation:

Institute for Health Metrics and Evaluation (IHME). Senegal, Mali, and Sierra Leone Oral Rehydration Therapy Geospatial Estimates 2000-2018. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2020.

Data Files Information

CSV files of Aggregated Estimates of Oral Rehydration Therapy Coverage

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

(Example: IHME_SEN_MLI_SLE_ORT_2000_2018_ANY_ORIS_Y2020M12D21.CSV)

- **Measure:** Any oral rehydration solutions (ANY_ORIS), Recommended home fluids only (RHF_ONLY), No oral rehydration therapy (NO_ORT)
- **Level of aggregation:** admin2, corresponding to first and second administrative level areas as defined in a modified version of the Database of Global Administrative Areas (GADM) 2019 shapefile. 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: 1
age_group_name	Age Group Name	Age group estimated. Possible values: Under 5
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"> • Any oral rehydration solutions • Recommended home fluids only • No oral rehydration therapy
metric	Metric	Metric/unit of measure for the estimate. Values: Percent
mean	Mean	Mean posterior population-weighted estimate for the administrative unit

Variable	Variable Label	Variable Definition
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

Note: No results were produced for Mali for the year 2000. For specific reasons outlined in the related publication, ORT estimates were only generated for the years 2001–2018.

Codebooks

Variable names, labels, and value encoding for admin 2 files can be found in the machine-actionable codebook file [IHME_SEN_MLI_SLE_ORT_2000_2018_CODEBOOK_Y2020M12D21.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_SEN_MLI_SLE_ORT_2000_2018_INPUT_SOURCES_Y2020M12D21.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:

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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.