



Data Release Information Sheet

Data Summary

Dataset name: Zero-Dose Diphtheria–Tetanus–Pertussis Vaccination Prevalence and Estimates of Overlap with Other Health Indicators

Date of release: April 5, 2023

Summary:

Subnational estimates were produced of the overlap of prevalence of target-age children who have never received a dose of diphtheria-tetanus-pertussis-containing vaccine (No-DTP) with that of five related health indicators: 1) children with stunting, 2) mortality among children under 5 (U5M), 3) children who had diarrhea who did not receive oral rehydration therapy (Missed ORT), 4) prevalence of lymphatic filariasis (LF), and 5) individuals who did not sleep under insecticide-treated bednets (Missed ITNs). Data is presented at the second administrative level for five countries: Angola, Democratic Republic of the Congo, Ethiopia, Indonesia, and Nigeria. Data are presented for the years 2000 and the most recent year of data available for the respective health indicators. Data include designations into population-weighted quartiles according to both prevalence and counts, and at both country-specific and multinational levels. Values for percent overlap and area under the curve (AUC) are also included at the national level.

Relevant publications and visualizations:

Haeuser E, Nguyen JQ, Rolfe S, Nesbit O, Fullman N, Mosser JF. Assessing Geographic Overlap between Zero-Dose Diphtheria–Tetanus–Pertussis Vaccination Prevalence and Other Health Indicators. *Vaccines*. 5 April 2023.

Acknowledgements

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- Institute for Health Metrics and Evaluation (IHME)

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Institute for Health Metrics and Evaluation (IHME). Zero-Dose Diphtheria–Tetanus–Pertussis Vaccination Prevalence and Estimates of Overlap with Other Health Indicators. Seattle, United States: Institute for Health Metrics and Evaluation (IHME), 2023.

Data Files Information

File Inventory

File Name	Description	Version Date
IHME_NO_DTP_ALL_MEASURES_AUC_2000_2019_ADMIN0_Y2023M04D05.CSV	No-DTP and other health indicators overlap estimates, area under the curve (AUC): Admin 0	April 5, 2023
IHME_NO_DTP_ALL_MEASURES_OVERLAP_2000_2019_ADMIN0_Y2023M04D05.CSV	No-DTP and other health indicators overlap estimates: Admin 0	April 5, 2023
IHME_NO_DTP_ALL_MEASURES_2000_2019_ADMIN0_CODEBOOK_Y2023M04D05.CSV	Codebook: Admin 0 files	April 5, 2023
IHME_NO_DTP_ITN_QUARTILES_2000_2019_ADMIN2_Y2023M04D05.CSV	No-DTP and ITN overlap estimates: Admin 2	April 5, 2023
IHME_NO_DTP_LF_QUARTILES_2000_2018_ADMIN2_Y2023M04D05.CSV	No-DTP and lymphatic filariasis (LF) overlap estimates: Admin 2	April 5, 2023
IHME_NO_DTP_ORT_QUARTILES_2000_2017_ADMIN2_Y2023M04D05.CSV	No-DTP and diarrhea with no oral rehydration therapy (Missed ORT) overlap estimates: Admin 2	April 5, 2023
IHME_NO_DTP_STUNTING_QUARTILES_2000_2019_ADMIN2_Y2023M04D05.CSV	No-DTP and stunting overlap estimates: Admin 2	April 5, 2023
IHME_NO_DTP_U5M_QUARTILES_2000_2017_ADMIN2_Y2023M04D05.CSV	No-DTP and mortality among children under 5 (U5M) overlap estimates: Admin 2	April 5, 2023
IHME_NO_DTP_2000_2019_ADMIN2_CODEBOOK_Y2023M04D05.CSV	Codebook: Admin 0 files	April 5, 2023
IHME_VACCINE_COVERAGE_2000_2021_INPUT_SOURCES_DTP1_Y2023M04D05.XLSX	Data Input Sources	April 5, 2023

File Name	Description	Version Date
IHME_NO_DTP_2000_2019_INFO_SHEET_Y2023M04D05.PDF	Data Release Information Sheet	April 5, 2023

Variable Information

CSV files of No-DTP and other health indicator estimates and quartile assignments

Measure-specific files providing mean estimates at the admin 2 level for no-DTP and the respective health measure, in both percent and count spaces. Country-specific and multinational quartile assignments are also included.

Stored in files named IHME_NO-DTP_<MEASURE>_QUARTILES_<YEARS >_ADMIN2_Y2023M04D05.CSV (Example: IHME_NO-DTP_ **STUNTING**_QUARTILES_2000_2019_ADMIN2_Y2023M04D05)

- **Measure:** Additional health measure to be compared: No-DTP, Children with stunting, Missed ITNs, LF, Missed ORT, Under-5 mortality
- **Years:** Years of data included (measure-specific).

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
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
ADM2_NAME	Admin 2 Name	Second level administrative unit name as found in the GADM shapefile
year	Year	Time period of estimate. Possible values: year 2000 (for all measures), 2017-2019 (varies by measure)
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: 1,22,28
age_group_name	Age Group Name	Age group estimated. Possible values: <1 year, <5 years, All ages

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
population	Population	Population count for the location, year, age, and sex given.
measure	Measure	The measure (indicator) estimated. Possible values: No-DTP, Children with stunting, Under-5 mortality, Missed ORT, Missed ITNs, LF
metric	Metric	Metric/unit of measure for the estimate. Possible values: Percent overlap (Prevalence), Percent overlap (Counts), AUC [Area under the curve]
value	Value	Mean estimate for the measure and metric given.
country_level_quartile	Country-Specific Quartile Classification	Population-weighted quartile classification for the given value within the specific country. Possible values: 1-4, with values of 1 indicating classification in the lowest quartile, and values of 4 indicating classification in the highest quartile.
multinational_level_quartile	Multinational Quartile Classification	Population-weighted quartile classification for the given value across all countries. Possible values: 1-4, with values of 1 indicating classification in the lowest quartile, and values of 4 indicating classification in the highest quartile.

CSV file of percent overlap of no-DTP and other health measures

File summarizing for each country, year and health measure, the proportion of admin 2 units assigned to the highest quartile for no-DTP that were also assigned to the highest quartile for the respective measure, with quartile classification in either prevalence or count space.

Stored in file named:

IHME_NO-DTP_ALL_MEASURES_OVERLAP_2000_2019_ADMIN_0_Y2023M04D05.CSV

Variable	Variable Label	Variable Definition
ADMO_CODE	GADM Admin 0 Code	GADM code identifying the administrative unit
ADMO_NAME	Admin 0 Name	Zero level administrative unit (Country) name as found in the GADM shapefile
year	Year	Time period of estimate. Possible values: year 2000 (for all measures), 2017-2019 (varies by measure)
measure	Measure	The measure (indicator) estimated. Possible values: No-DTP, Children with stunting, Under-5 mortality, Missed ORT, Missed ITNs, LF
metric	Metric	Possible values: Percent [Percent overlap (Prevalence)], Counts [Percent overlap (Counts)]
value	Value	Proportion of admin 2 units assigned to the highest quartile for no-DTP that were also assigned to the highest quartile for the respective measure, with quartile classification in either prevalence or count space

CSV file of AUC value no-DTP and other health measures

File summarizing for each country, year and health measure, the AUC value calculated for the respective health measure based on cumulative population targeting for no-DTP.

Stored in file named:

IHME_NO-DTP_ALL_MEASURES_AUC_2000_2019_ADMIN_0_Y2023M04D05.CSV

Variable	Variable Label	Variable Definition
ADMO_CODE	GADM Admin 0 Code	GADM code identifying the administrative unit
ADMO_NAME	Admin 0 Name	Zero level administrative unit (Country) name as found in the GADM shapefile
year	Year	Time period of estimate. Possible values: year 2000 (for all measures), 2017-2019 (varies by measure)
measure	Measure	The measure (indicator) estimated. Possible values: No-DTP, Children with stunting, Under-5 mortality, Missed ORT, Missed ITNs, LF
metric	Metric	Possible values: AUC

Variable	Variable Label	Variable Definition
value	Value	Calculated AUC value for no-DTP cumulative population targeting and the respective health measure

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.