



Institute for Health Metrics and Evaluation

Data Release Information Sheet

Data Summary

Dataset name: SARS-CoV-2 Daily and Cumulative Infection Estimates 2019-2021

Date of release: April 8, 2022

Summary:

This dataset contains estimates of daily and cumulative infections with SARS-CoV-2 from the beginning of the pandemic through November 14, 2021, as well as estimates of cumulative COVID-19 deaths (adjusted for under-reporting) and estimates of the infection-detection ratio, infection-hospitalization ratio, and infection-fatality ratio. These are made available by day for 190 countries and territories – and subnational locations in 10 of those countries – aggregated into 21 regions and 7 super-regions and globally. Methods and limitations for the underlying models can be found in detail in the publication.

Relevant publications and visualizations:

COVID-19 Forecasting Team. Estimating global, regional, and national daily and cumulative infections with SARS-CoV-2 through Nov 14, 2021: a statistical analysis. *The Lancet*. 8 April 2022.

Acknowledgements

Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME)

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- John W. Stanton and Theresa E. Gillespie
- Julie and Erik Nordstrom

Suggested Citation:

Institute for Health Metrics and Evaluation (IHME). SARS-CoV-2 Daily and Cumulative Infection Estimates 2019-2021. Seattle, United States of America: Institute for Health Metrics and Evaluation (IHME), 2022.

Data Files Information

File Inventory

File Name	Description	Version Date
IHME_COVID_19_IES_2019_2021_SARS_COV_2_INFECTIONS_Y2022M04D08.CSV	Estimates of infections and infection rates	April 8, 2022
IHME_COVID_19_IES_2019_2021_PERCENT_INFECTED_SARS_COV_2_Y2022M04D08.CSV	Estimates percent infected	April 8, 2022
IHME_COVID_19_IES_2019_2021_COVID_19_MORT_Y2022M04D08.CSV	Estimates of total COVID-19 deaths and death rates	April 8, 2022
HME_COVID_19_IES_2019_2021_RATIOS_Y2022M04D08.CSV	Estimates of the infection-detection ratio, infection-hospitalization ratio, and infection-fatality ratio	April 8, 2022
IHME_COVID_19_IES_2019_2021_CODEBOOK_Y2022M04D08.CSV	Estimates codebook	April 8, 2022
IHME_COVID_19_IES_2019_2021_DATA_INPUT_SOURCES_SEROLOG_Y_Y2022M04D08.XLSX	Data input sources – serology	April 8, 2022
IHME_COVID_19_IES_2019_2021_DATA_INPUT_SOURCES_OTHER_Y2022M04D08.XLSX	Data input sources – cases, hospitalizations, and deaths	April 8, 2022
IHME_COVID_19_IES_2019_2021_INFO_SHEET_Y2022M04D08.PDF	Data Release Information Sheet	April 8, 2022
COVID_HISTORICAL_MODEL_MAI N.zip	IHME empirical model of past COVID-19 infections, confirmed cases, hospitalizations, and deaths	April 8, 2022
COVID_MODEL_INFECTIONS_MAI N.zip	IHME COVID-19 past infections model	April 8, 2022

Variable Information

Variable	Variable Label	Variable Definition
location_id	Location ID	A unique numeric identifier for the location generated and stored in an IHME database of data dimensions. Possible values: See Codebook file
location_name	Location Name	The location for the estimate. Possible values: See Codebook file
level	Location Level	The hierarchical level of the location for the estimate. Possible values: 0, 1, 2, 3, 4
date	Date	Date for the estimate. Possible values: See Codebook file
measure_name	Measure Name	The measure (indicator) for the estimate. Possible values: <ul style="list-style-type: none"> • Cumulative infection rate (per 100 population) • Cumulative infections • Cumulative percent infected • Cumulative total COVID-19 death rate (per 100,000 population) • Cumulative total COVID-19 deaths • Daily infections • Cumulative infection-detection ratio • Cumulative infection-hospitalisation ratio • Cumulative infection-fatality ratio

Variable	Variable Label	Variable Definition
metric_id	Metric ID	A unique numeric identifier for the metric. Possible values: 1, 2, 3
metric_name	Metric Name	The metric/unit of measure for the estimate. Possible values: Number, Percent, Rate
value_mean	Value	Mean estimate.
value_upper	95% Uncertainty Interval (Upper Bound)	97.5% percentile estimate.
value_lower	95% Uncertainty Interval (Lower Bound)	2.5% percentile estimate.

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.