



Institute for Health Metrics and Evaluation

Data Release Information Sheet

Data Summary

Dataset name: COVID-19 Pandemic Preparedness - Infection Rate and Infection Fatality Ratio Estimates 2020-2021

Date of release: February 1, 2022

Summary:

This dataset contains national-level estimates of unadjusted and adjusted COVID-19 infections per capita and infection fatality ratio (IFR) between January 1, 2020, and September 30, 2021, for 177 countries. Cumulative COVID-19 infections per 1,000 population include both unadjusted estimates and estimates standardized for environmental seasonality (measured as the relative risk of pneumonia), population density, gross domestic product (GDP) per capita, proportion of the population living below 100 m, and a proxy for previous exposure to other betacoronaviruses. IFR per 1,000 infections include both unadjusted estimated and estimates standardized for the age distribution of the population, mean body-mass index (BMI), exposure to air pollution, smoking rates, the proxy for previous exposure to other betacoronaviruses, population density, age-standardized prevalence of chronic obstructive pulmonary disease and cancer, and GDP per capita.

Relevant publications and visualizations:

COVID-19 National Preparedness Collaborators. Pandemic preparedness and COVID-19: an exploratory analysis of infection and fatality rates, and contextual factors associated with preparedness in 177 countries, from Jan 1, 2020, to Sept 30, 2021. *The Lancet*. 1 February 2022.

Acknowledgements

Contributing organizations:

- Institute for Health Metrics and Evaluation (IHME)

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Data Files Information

File Name	Description	Version Date
IHME_COVID_19_PREPAREDNESS_2020_2021_DATA_Y2022M02D01.CSV	Estimates of unadjusted and adjusted COVID-19 infections per capita and infection fatality ratio (IFR), 2020–2021	February 1, 2022
IHME_COVID_19_PREPAREDNESS_2020_2021_CODEBOOK_Y2022M02D01.CSV	Codebook	February 1, 2022
IHME_COVID_19_PREPAREDNESS_2020_2021_DATA_INPUT_SOURCES_Y2022M02D01.XLSX	Data Input Sources	February 1, 2022
IHME_COVID_19_PREPAREDNESS_2020_2021_INFO_SHEET_Y2022M02D01.PDF	Data Release Information Sheet	February 1, 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.
location_name	Location Name	The location for the estimate.
unadjusted_infections_per_capita	Unadjusted infections per 1000 population	Cumulative infections between January 1, 2020, and September 30, 2021, per 1,000 population.

Variable	Variable Label	Variable Definition
adjusted_infections_per_capita	Adjusted infections per 1000 population	Cumulative infections between January 1, 2020, and September 30, 2021, per 1,000 population, standardized to the global level of the following variables: environmental seasonality (measured as the relative risk of pneumonia), population density, gross domestic product (GDP) per capita, proportion of the population living below 100 m, and a proxy for previous exposure to other betacoronaviruses.
unadjusted_IFR	Unadjusted IFR per 1000 infections	Infection fatality ratio per 1,000 infections between January 1, 2020, and September 30, 2021.
adjusted_IFR	Adjusted IFR per 1000 infections	Infection fatality ratio per 1,000 infections between January 1, 2020, and September 30, 2021, standardized to the global level of the following variables: age distribution of the population, mean body-mass index (BMI), exposure to air pollution, smoking rates, the proxy for previous exposure to other betacoronaviruses, population density, age-standardized prevalence of chronic obstructive pulmonary disease and cancer, and GDP per capita.

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.