Institute for Health Metrics and Evaluation

Data Release Information Sheet

Data Summary

Dataset name: COVID-19 Hospital Needs, Infections, Testing, and Death Projections

Summary:

IHME has developed projections which show hospital bed use, need for intensive care beds, and ventilator use due to COVID-19 for a number of countries. The forecasts also show daily and cumulative COVID-19 deaths, infections and testing, and social distancing mandate information. Forecasts at the subnational level are included for select countries. These projections are produced with a model that incorporates data on observed COVID-19 deaths, hospitalizations, and cases, information about social distancing and other protective measures, mobility, and other factors. They include uncertainty intervals and are being updated daily with new data. These forecasts were developed in order to provide hospitals, policy makers, and the public with crucial information about how expected need aligns with existing resources, so that cities and countries can best prepare.

[Access current projections](#)

Acknowledgements

Suggested Citation:

Institute for Health Metrics and Evaluation (IHME). COVID-19 Hospital Needs, Infections, Testing, and Death Projections. Seattle, United States of America: Institute for Health Metrics and Evaluation (IHME), University of Washington, 2020.

Variable Information

Hospitalization_all_locs.csv

Variable	Variable Description
location_name	Name of the country or subnational location
date	Date
allbed_mean	Mean covid beds needed by day
allbed_lower	Lower uncertainty bound of covid beds needed by day
allbed_upper	Upper uncertainty bound of covid beds needed by day

Variable	Variable Description
ICUbed_mean	Mean ICU covid beds needed by day
ICUbed_lower	Lower uncertainty bound of ICU covid beds needed by day
ICUbed_upper	Upper uncertainty bound of ICU covid beds needed by day
InvVen_mean	Mean invasive ventilation needed by day
InvVen_lower	Lower uncertainty bound of invasive ventilation needed by day
InvVen_upper	Upper uncertainty bound of invasive ventilation needed by day
deaths_mean	Mean daily covid deaths
deaths_lower	Lower uncertainty bound of daily covid deaths
deaths_upper	Upper uncertainty bound of daily covid deaths
admis_mean	Mean hospital admissions by day
admis_lower	Lower uncertainty bound of hospital admissions by day
admis_upper	Upper uncertainty bound of hospital admissions by day
newICU_mean	Mean number of new people going to the ICU by day
newICU_lower	Lower uncertainty bound of the number of new people going to the ICU by day
newICU_upper	Upper uncertainty bound of the number of new people going to the ICU by day
totdea_mean	Mean cumulative covid deaths
totdea_lower	Lower uncertainty bound of cumulative covid deaths
totdea_upper	Upper uncertainty bound of cumulative covid deaths
bedover_mean	[covid all beds needed] - ([total bed capacity] - [average all bed usage])
bedover_lower	Lower uncertainty bound of bedover (above)
bedover_upper	Upper uncertainty bound of bedover (above)
icuover_mean	[covid ICU beds needed] - ([total ICU capacity] - [average ICU bed usage])

Variable	Variable Description
icuover_lower	Lower uncertainty bound of icuover (above)
icuover_upper	Upper uncertainty bound of icuover (above)
deaths_mean_smoothed	Mean daily covid deaths (smoothed)
deaths_lower_smoothed	Lower uncertainty bound of daily covid deaths (smoothed)
deaths_upper_smoothed	Upper uncertainty bound of daily covid deaths (smoothed)
totdea_mean_smoothed	Mean cumulative covid deaths (smoothed)
totdea_lower_smoothed	Lower uncertainty bound of cumulative covid deaths (smoothed)
totdea_upper_smoothed	Upper uncertainty bound of cumulative covid deaths (smoothed)
mobility_data_type	Indicator of whether mobility composite is observed / projected
mobility_composite	Mobility composite score
total_tests_data_type	Indicator of whether total tests composite is observed or projected
total_tests	Total tests
confirmed_infections	Observed data only (confirmed infections)
est_infections_mean	Mean estimated infections
est_infections_lower	Lower uncertainty bound of estimated infections
est_infections_upper	Upper uncertainty bound estimated infections

Summary_stats_all_locs.csv

Variable	Variable Description
location_name	Name of the country or subnational location
peak_bed_day_mean	Mean peak bed use date
peak_bed_day_lower	Lower uncertainty bound of peak bed use date
peak_bed_day_upper	Upper uncertainty bound of peak bed use date
peak_icu_bed_day_mean	Mean peak ICU bed use date
peak_icu_bed_day_lower	Lower uncertainty bound of peak ventilator use date

Variable	Variable Description
peak_icu_bed_day_upper	Upper uncertainty bound of peak ventilator use date
peak_vent_day_mean	Mean peak ventilator use date
peak_vent_day_lower	Lower uncertainty bound of peak ventilator use date
peak_vent_day_upper	Upper uncertainty bound of peak ventilator use date
all_bed_capacity	Total number of beds that exist at that location
icu_bed_capacity	Total number of icu beds that exist at that location
all_bed_usage	Average number of total beds used normally at that location
icu_bed_usage	Average number of icu beds used normally at that location
available_all_nbr	All_bed_capacity - all_bed_usage: excess bed capacity at that location
available_icu_nbr	Icu_bed_capacity - icu_bed_usage: icu excess bed capacity at that location
travel_limit_start_date	Start date for Severe travel restrictions
travel_limit_end_date	End date for Severe travel restrictions
stay_home_start_date	Start date for People ordered to stay at home
stay_home_end_date	End date for People ordered to stay at home
educational_fac_start_date	Start date for Educational facilities closed
educational_fac_end_date	End date for Educational facilities closed
any_gathering_restrict_start_date	Start date for Any gathering restrictions
any_gathering_restrict_end_date	End date for Any gathering restrictions
any_business_start_date	End date for Any business closures
any_business_end_date	End date for Any business closures
all_non-ess_business_start_date	Start date of Non-essential businesses ordered to close
all_non-ess_business_end_date	End date of Non-essential businesses ordered to close

Additional Information

Terms and Conditions

http://www.healthdata.org/about/terms-and-conditions

Contact information

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