# Data Release Information Sheet

## *Data Summary*

Dataset name: COVID-19 Hospital Needs and Death Projections

Summary:

IHME has produced forecasts which show hospital bed use, need for intensive care beds, and ventilator use due to COVID-19 based on projected deaths for the United States, at the country and subnational level, and countries in the European Economic Area (EEA). Forecasts at the subnational level are included for three EEA countries: Germany, Italy, and Spain. These projections are produced by models based on observed death rates from COVID-19, and include uncertainty intervals. They incorporate information about social distancing and other protective measures 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 and Death Projections. Seattle, United States of America: Institute for Health Metrics and Evaluation (IHME), University of Washington, 2020.

## *Variable Information*

| Variable | Variable Description |
| --- | --- |
| location_name | Name of the state |
| 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 |
| 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]) |
| icuover_lower | Lower uncertainty bound of icuover (above) |
| icuover_upper | Upper uncertainty bound of icuover (above) |
| 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 stimated infections |
| 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_lower | Lower uncertainty bound of peak ICU bed use date |
| peak_icu_bed_day_upper | Upper uncertainty bound of peak ICU bed 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 |
| peak_bed_day_mean | Mean peak bed use date |
| peak_icu_bed_day_mean | Mean peak ICU bed use date |
| peak_vent_day_mean | Mean 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 |
| all_non-ess_business_start_date | Start date of Non-essential businesses ordered to close |
| any_business_start_date | Start date for Any business closures |
| any_gathering_restrict_start_date | Start date for Any gathering restrictions |
| educational_fac_start_date | Start date for Educational facilities closed |
| stay_home_start_date | Start date for People ordered to stay at home |
| travel_limit_start_date | Start  date for Severe travel restrictions |
| all_non-ess_business_end_date | End date of Non-essential businesses ordered to close |

| | |
|---|---|
| any_business_end_date | End date for Any business closures |
| any_gathering_restrict_end_date | End date for Any gathering restrictions |
| educational_fac_end_date | End date for Educational facilities closed |
| stay_home_end_date | End date for People ordered to stay at home |
| travel_limit_end_date | End date for Severe travel restrictions |

*Additional Information*

**Terms and Conditions**

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

**Contact information**

For questions or concerns please contact: covid19@healthdata.org

Institute for Health Metrics and Evaluation
2301 Fifth Ave., Suite 600
Seattle, WA 98121
USA
Telephone: +1-206-897-2800
Fax: +1-206-897-2899
www.healthdata.org