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**CDC** Centers for Disease Control and Prevention

COVID-19 Forecasts: Hospitalizations

Updated Aug. 8, 2023

Forecasted new COVID-19 hospital admissions as of August 7, 2023.

Interpretation of Forecasts of New Hospitalizations

- This week's national ensemble predicts that the number of daily COVID-19 hospital admissions will remain stable or have an uncertain trend, with 420 to 6,300 daily COVID-19 hospital admissions likely reported on September 4.

- The state- and territory-level ensemble forecasts predict that over the next four weeks, trends in numbers of future hospitalizations are uncertain or predicted to remain stable in all states and territories.

- Ensemble forecasts combine diverse independent team forecasts into one forecast. While they have been among the most reliable forecasts in performance over time, even the ensemble forecasts have not reliably predicted rapid changes in the trends of reported cases, hospitalizations, and deaths. They should not be relied upon for making decisions about the possibility or timing of rapid changes in trends.

National Forecasts

Inner bands: 50% prediction intervals
Outer bands: 95% prediction intervals
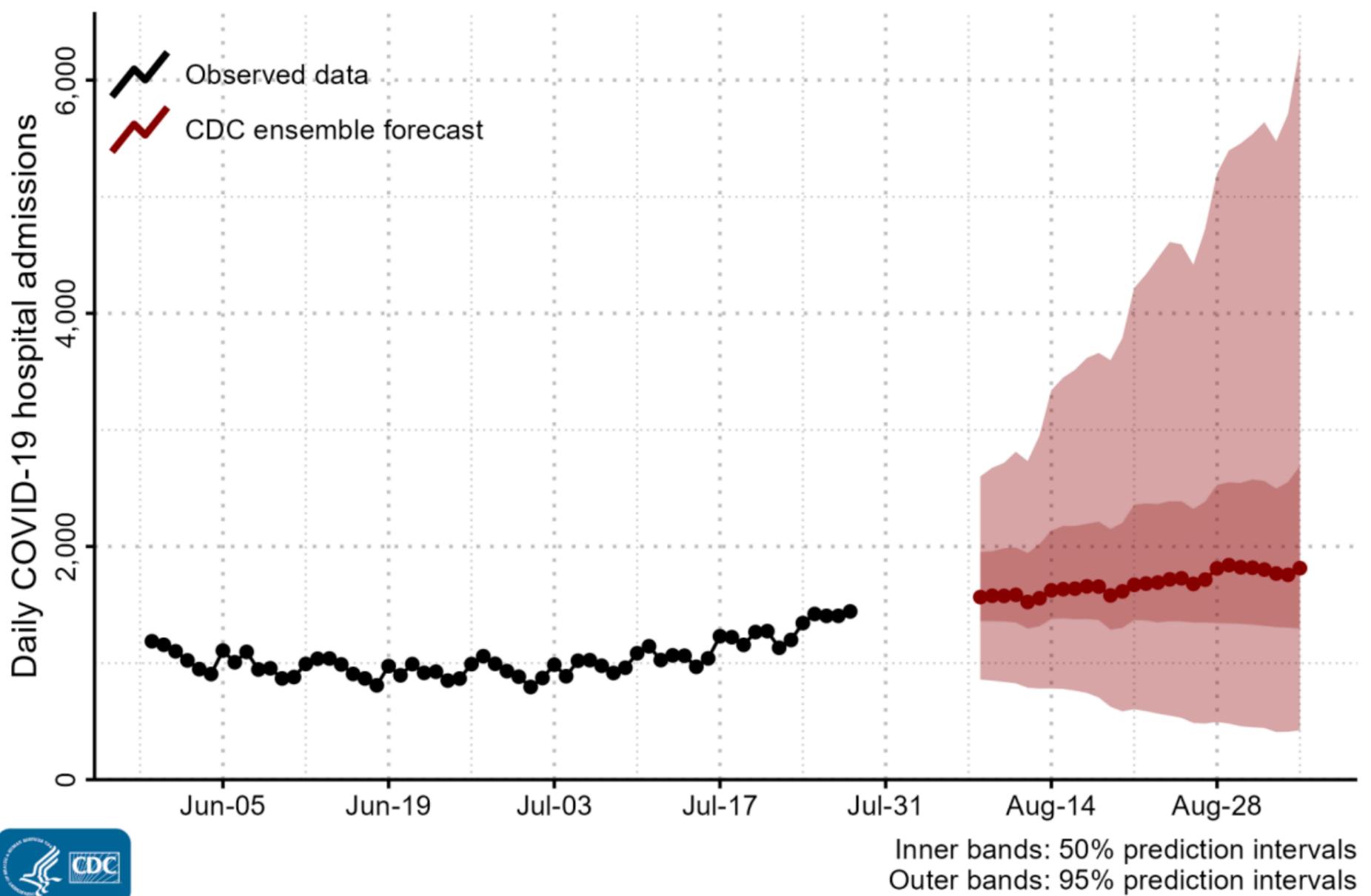
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- The figure shows the number of daily COVID-19 hospital admissions reported in the United States each day from May 30 through July 28 and forecasted daily COVID-19 hospital admissions over the next four weeks, through September 4.

- This week, ensemble forecasts of daily COVID-19 hospital admissions included forecasts from 8 modeling groups, each of which contributed a forecast for at least one jurisdiction.

- Models make various assumptions about the levels of social distancing and other interventions, which may not reflect recent changes in behavior. See model descriptions below for details on the assumptions and methods used to produce the forecasts.

[Download national forecast data](#) [CSV – 7 KB]

State Forecasts

State-level forecasts show the predicted number of daily COVID-19 hospital admissions for the next four weeks by state. Each state forecast figure uses a different scale due to differences in the number of daily COVID-19 hospital admissions between states and only forecasts meeting a set of ensemble inclusion criteria are shown. Further details are available here: https://covid19forecasthub.org/doc/ensemble/ . Plots of the state-level ensemble forecasts and the underlying data can be downloaded below.

[Download state forecasts](#) [1 MB – 18 pages]

[Download state forecast data](#) [CSV – 3 MB]

Additional forecast data and information about submitting forecasts are available at the [COVID-19 Forecast Hub](#) .

Forecast Inclusion, Evaluation, and Assumptions

The teams with forecasts included in the ensembles are displayed below. Forecasts are included when they meet a set of submission and data quality requirements, further described at the COVID-19 Forecast Hub ⬀ .

Ensemble and individual team forecast performance is evaluated using a variety of metrics, including the assessment of prediction interval coverage, available at https://delphi.cmu.edu/forecast-eval/ ⬀ .

Reported hospitalizations can vary due to variable staffing and inconsistent reporting patterns within the week. Thus, daily variations in the reported values and the forecasts may not fully represent the true number of hospitalizations in each jurisdiction on a specific day.

Contributing Teams

Individual models details are available here: https://covid19forecasthub.org/community/ ⬀ .

- CEPH Lab at Indiana University (Model: CEPH)
- Carnegie Mellon Delphi Group (Model: CMU)
- Northeastern University, Laboratory for the Modeling of Biological and Sociotechnical Systems (Model: MOBS)
- Predictive Sciences Inc. (Model: PSI-DICE)
- University of Massachusetts, Amherst (Model: UMass-GBQ)
- University of Massachusetts, Amherst (Model: UMass-Sarix)
- University of Massachusetts, Amherst (Model: UMass-TE)
- University of Texas, Austin (Model: UT)

Additional Resources

Previous COVID-19 Forecasts: Hospitalizations – 2023

FAQ: COVID-19 Data and Surveillance

CDC COVID Data Tracker

COVID-19 Mathematical Modeling

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