



Influenza (Flu)

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Forecasts of Flu Hospitalizations

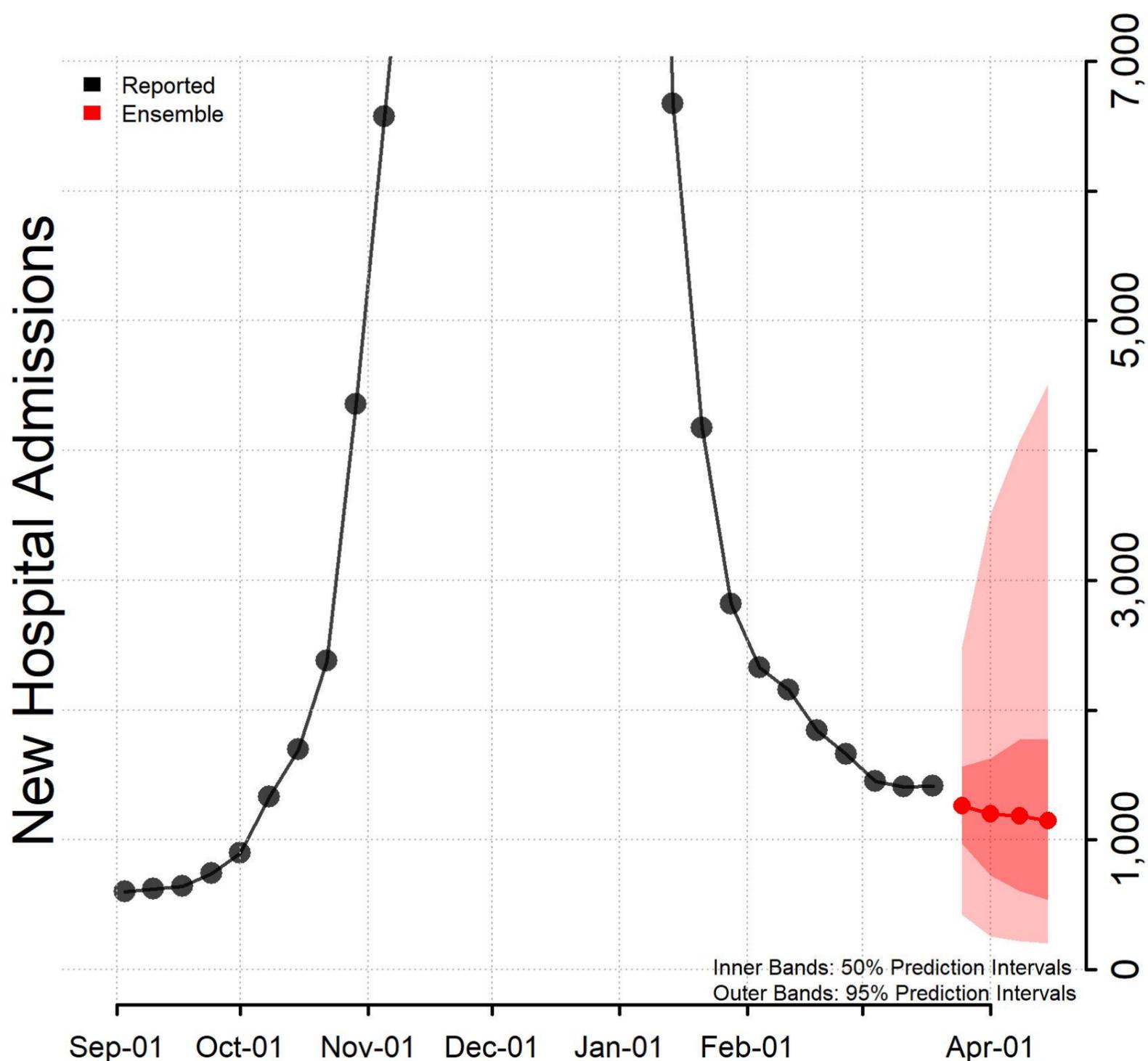
Updated March 22, 2023

Reported and forecasted new influenza hospitalizations as of March 21, 2023.

Interpretation of National Forecasts of New Hospitalizations

- This week's ensemble predicts that the number of new weekly confirmed influenza hospital admissions will remain stable or have an uncertain trend nationally, with **200 to 4,500** new confirmed influenza hospital admissions likely reported in the week ending April 15, 2023.
- This week, 19 modeling groups contributed 20 forecasts that were eligible for inclusion in the ensemble forecasts for at least one jurisdiction. Contributing teams are listed below.
- Ensemble forecasts combine forecasts from diverse models into one forecast. They have been among the most reliable forecasts in performance for previous influenza and COVID-19 forecasting efforts, but even the ensemble forecasts may not reliably predict rapid changes.
- The figure shows the number of new confirmed influenza hospital admissions reported in the United States each week from September 1 through March 18 and forecasted new influenza hospital admissions per week over the next 4 weeks, through April 15. Hospitals are required to report laboratory-confirmed influenza hospitalizations to HHS Protect daily. [See COVID-19 Guidance for Hospital Reporting and FAQs](#)   for additional details on this guidance.

National Forecast



[Download all national data](#) [XLS - 10 KB]

State Forecasts

State-level forecasts show the predicted number of new influenza hospital admissions per week for the next 4 weeks by state. Each state forecast figure uses a different scale due to differences in the number of new influenza hospital admissions per week between states and only forecasts included in the ensemble are shown. Plots of the state-level ensemble forecasts and the underlying data can be downloaded below.

[Download state forecasts](#) [PDF - 783 KB]

[Download all forecast data](#) [XLS - 384 KB]

Additional forecast data and information about submitting forecasts are available at <https://github.com/cdcepi/Flusight-forecast-data> .

Contributing Teams

- [California Department of Public Health \(CADPH\)](#) (Model: FluCAT)
- [Carnegie Mellon Delphi Group](#) (Model: CMU-TimeSeries)
- [CEPH Lab at Indiana University](#) (Model: Rtrend_fluH)

- [Columbia University](#)  (Model: CU-ensemble)
- [Fogarty International Center, National Institutes of Health \(NIH\)](#)  (Model: Flu_ARIMA)
- [Georgia Institute of Technology](#)  (Model: GT-FluFNP)
- [Iowa State Niemi Research Lab](#)  (Model: Flu Forecast)
- [Johns Hopkins ID Dynamics](#)  (Model: CovidScenarioPipeline)
- [Los Alamos National Lab and Northern Arizona University](#)  (Model: LosAlamos_NAU-CModel_Flu)
- [MIGHTE](#)  (Model: Nsemble)
- [MOBS Lab at Northeastern](#)  (Model: MOBS-GLEAM_FLUH)
- [Predictive Science Inc](#)  (Model: PSI-DICE)
- [Signature Science](#)  (Model: SigSci-CREG)
- [Signature Science](#)  (Model: SigSci-TSENS)
- [Srivastava Group](#)  (Model: SGroup-RandomForest)
- [UGA_flucast](#)  (Model: UGA_flucast-OKeeffe)
- [UNC Infectious Disease Dynamics](#)  (Model: InFluPaint)
- [University of Massachusetts-Amherst](#)  (Model: UMass-trends_ensemble)
- [University of Virginia, Biocomplexity Institute](#)  (Model: UVAFluX-Ensemble)
- [Virginia Tech, Sanghani Center for Artificial Intelligence and Data Analytics](#)  (Model: VTSanghani-ExogModel)

Last Reviewed: March 22, 2023