



Influenza (Flu)

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Forecasts of Flu Hospitalizations

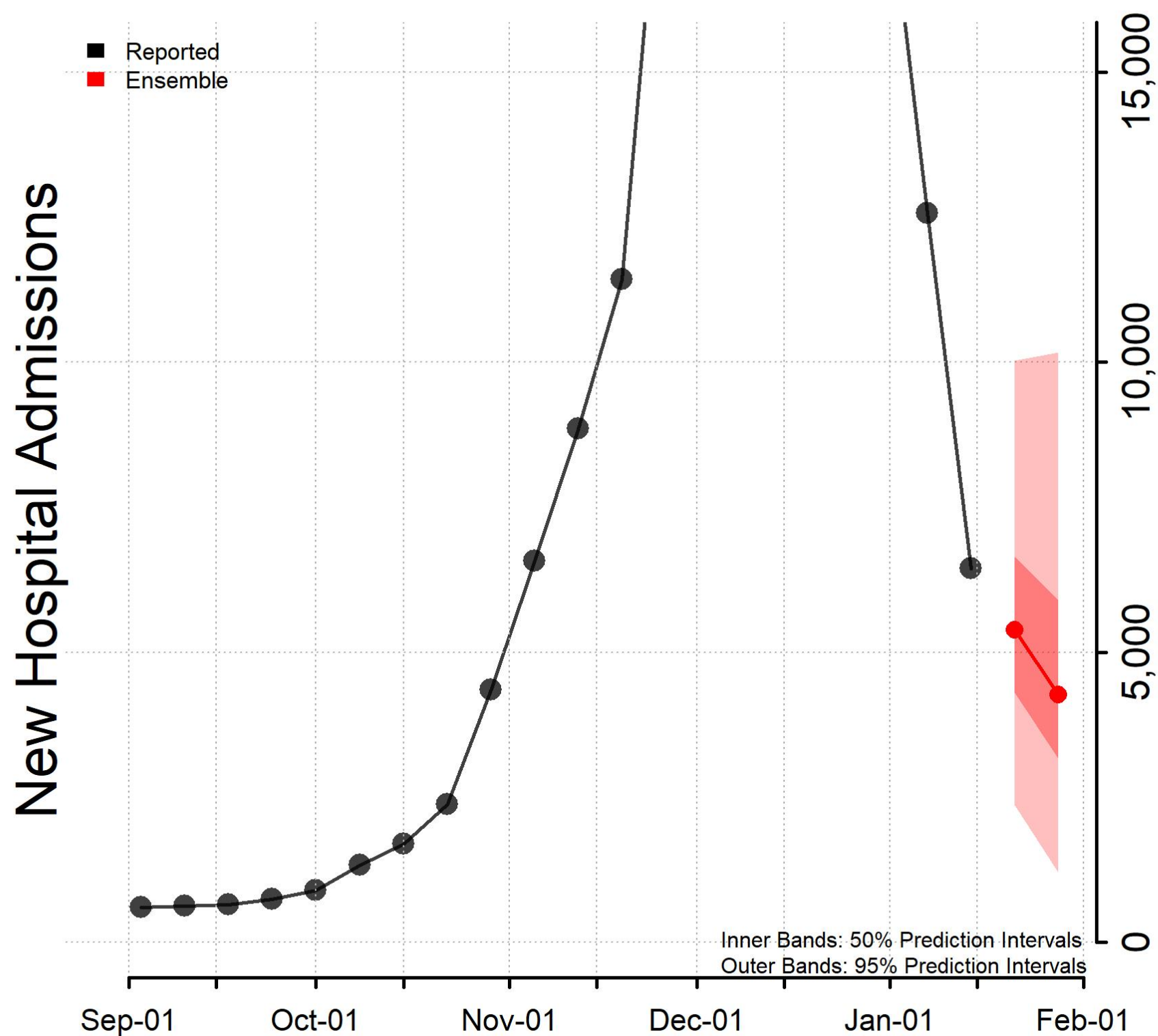
Updated January 19, 2023

Reported and forecasted new influenza hospitalizations as of January 16, 2023.

Interpretation of National Forecasts of New Hospitalizations

- This week's ensemble predicts that the number of new weekly confirmed influenza hospital admissions will likely decrease nationally, with **1,200 to 10,000** new confirmed influenza hospital admissions likely reported in the week ending January 28, 2023.
- This week, 21 modeling groups contributed 24 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 January 14 and forecasted new influenza hospital admissions per week over the next 2 weeks, through January 28. 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 2 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 – 653 KB]

[Download all forecast data](#) [XLS – 227 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)

LU Computational Uncertainty Lab [↗](#) (Model: Hierarchical Compartmental Model)

LU Computational Uncertainty Lab [↗](#) (Model: LUcompUncertLab-humanjudgment)

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 Guelph Dynamics Training Lab [↗](#) (Model: Influenza Piecewise Linear University of Guelph model)

University of Massachusetts-Amherst [↗](#) (Model: ARIMA)

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: January 19, 2023