Influenza (Flu)

Forecasts of Flu Hospitalizations

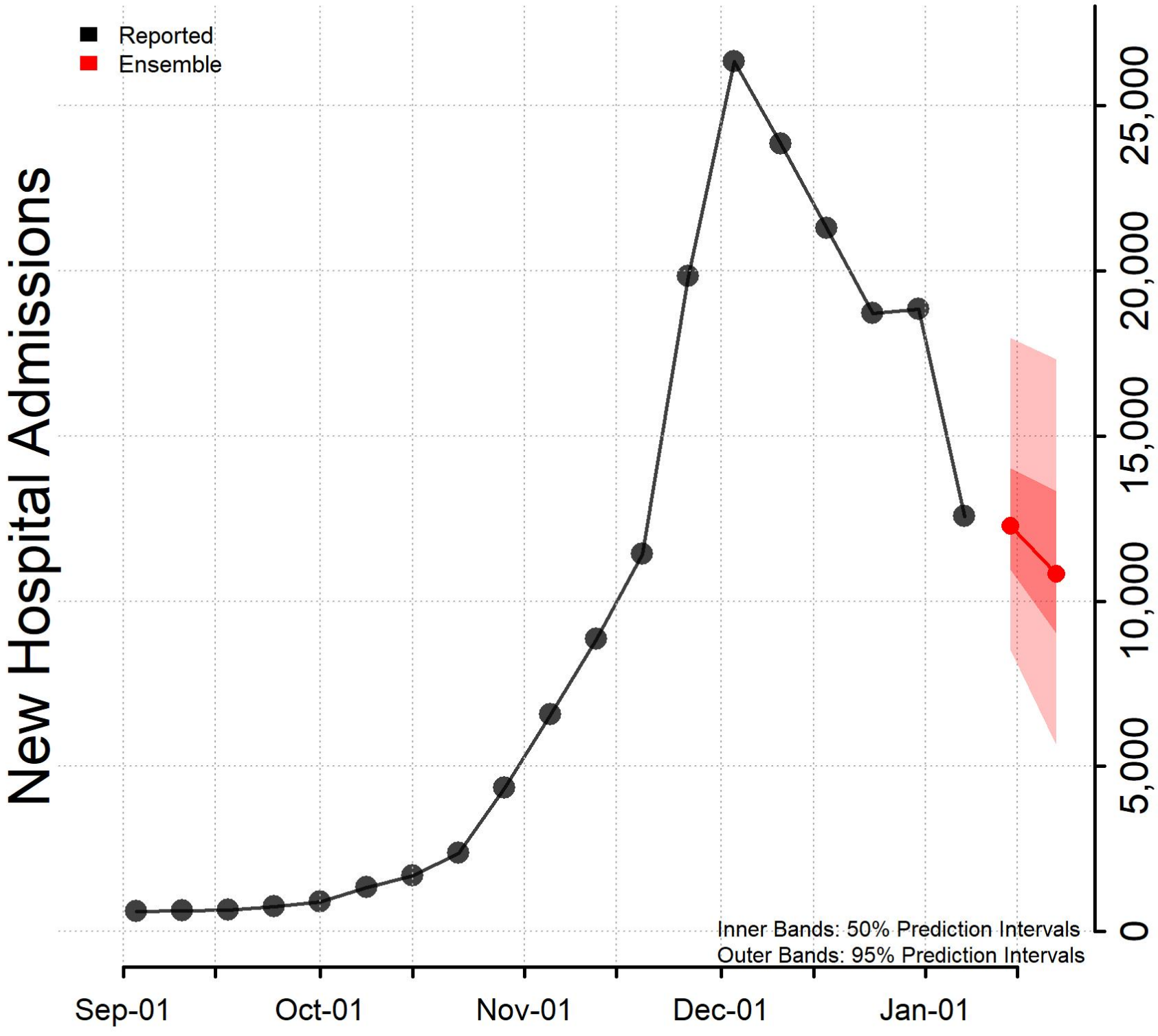
Updated January 11, 2023

Reported and forecasted new influenza hospitalizations as of January 9, 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 **5,600 to 17,000** new confirmed influenza hospital admissions likely reported in the week ending January 21, 2023.
- This week, 19 modeling groups contributed 22 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 7 and forecasted new influenza hospital admissions per week over the next 2 weeks, through January 21. 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 – 640 KB]

Download all forecast data [XLS – 221 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 Massachusetts-Amherst (Model: ARIMA)

University of Massachusetts-Amherst (Model: UMass-trends_ensemble)

University of Virginia, Biocomplexity Institute (Model: UVAFluX-Ensemble)

Last Reviewed: January 11, 2023