



Influenza (Flu)

Forecasts of Flu Hospital Admissions

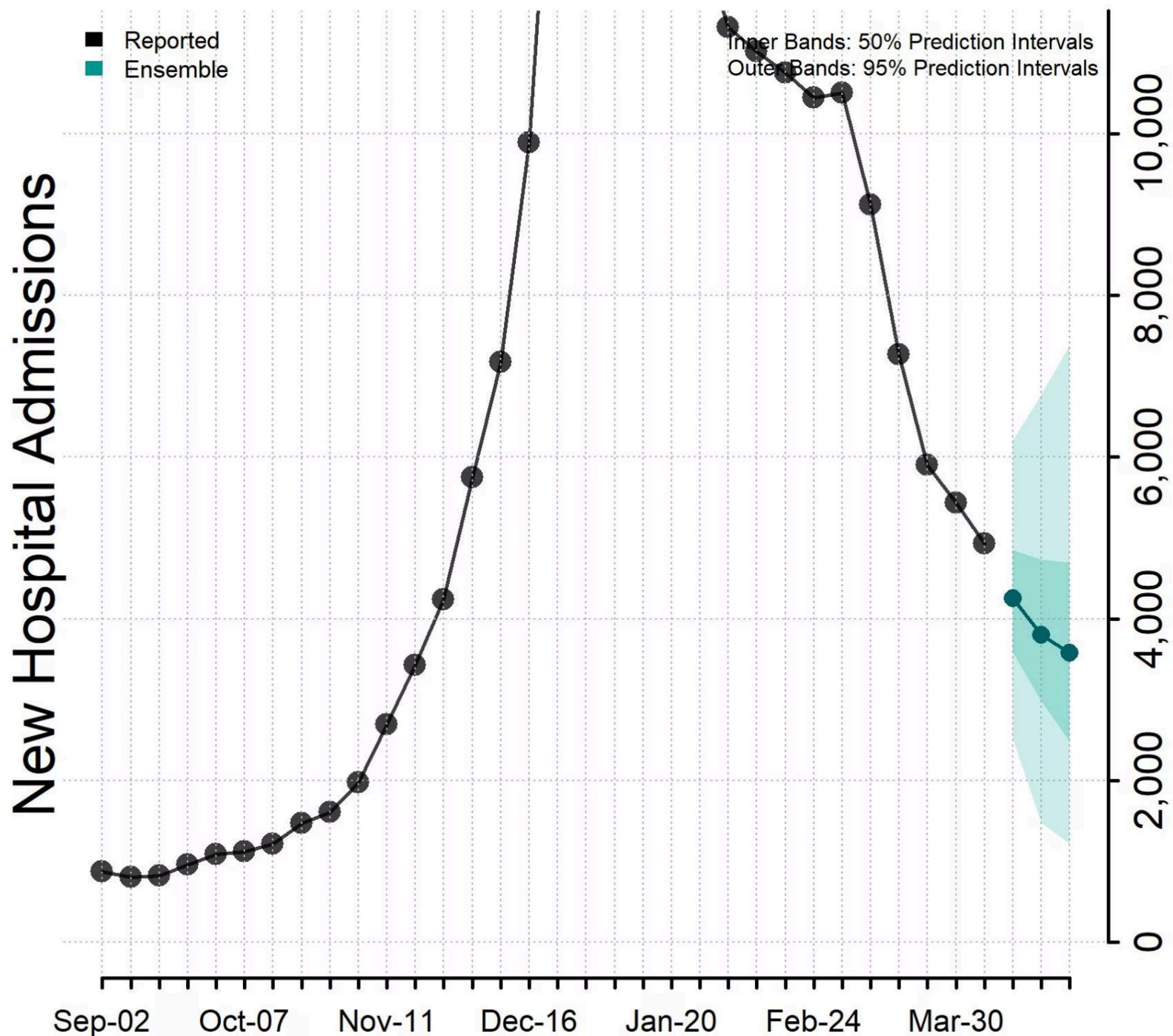
Updated April 15, 2024

Reported and forecasted new influenza hospital admissions as of April 10, 2024.

Interpretation of Forecasts of New Hospital Admissions

- This week's ensemble predicts that the number of new weekly laboratory confirmed influenza hospital admissions will likely decrease nationally, with **1,200 to 7,400** laboratory confirmed influenza hospital admissions likely reported in the week ending April 27, 2024.
- This week, 23 modeling groups contributed 27 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 laboratory confirmed influenza hospital admissions reported in the United States each week from September 1 through April 6 and forecasted new influenza hospital admissions per week for this week and the next 2 weeks, through April 27. Hospitals are required to report daily laboratory-confirmed influenza hospitalizations to the National Healthcare Safety Network (NHSN). [See COVID-19 Guidance for Hospital Reporting and FAQs](#)  [658 KB, 52 pages]  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 laboratory confirmed influenza hospital admissions per week for this week and 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](#) [930 KB, 14 pages]

[Download all forecast data](#) [XLS - 375 KB]

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

Contributing Teams and Models

- [California Department of Public Health \(CADPH\)](#) (Model: FluCAT)
- [Carnegie Mellon Delphi Group](#) (Model: CMU-TimeSeries)
- [Center for Forecasting and Outbreak Analytics \(CFA/CDC\); renewal model team](#) (Model: cfa-flu-epidemia-light)

- [Center for Forecasting and Outbreak Analytics \(CFA/CDC\); SEIR model team](#) (Model: flu-mechanistic)
- [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: Nonlinear ASG Hierarchical)
- [Los Alamos National Lab and Northern Arizona University](#) [↗](#) (Model: LosAlamos_NAU-CModel_Flu)
- [LU Computational Uncertainty Lab](#) [↗](#) (Model: Chimera)
- [MOBS Lab at Northeastern](#) [↗](#) (Model: MOBS-GLEAM_FLUH)
- [Norwegian Institute of Public Health – Fjordhest](#) [↗](#) (Model: fjordhest-ensemble)
- [Predictive Science Inc.](#) [↗](#) (Model: PSI-PROF)
- [Signature Science](#) [↗](#) (Model: SigSci-CREG)
- [Signature Science](#) [↗](#) (Model: SigSci-TSENS)
- [Srivastava Group](#) [↗](#) (Model: SGroup-RandomForest)
- [Stevens Institute of Technology](#) [↗](#) (Model: Gradient Boosting Regressors)
- [The Center for Systems Science and Engineering at Johns Hopkins University](#) [↗](#) (Model: CSSE Ensemble)
- [UNC Infectious Disease Dynamics](#) [↗](#) (Model: InfluPaint)
- [University of Georgia Center for the Ecology of Infectious Diseases Forecasting Working Group](#) [↗](#) (Model: Copycat)
- [University of Georgia Center for the Ecology of Infectious Diseases Forecasting Working Group](#) [↗](#) (Model: INFLAenza)
- [University of Guelph Dynamics Training Lab](#) [↗](#) (Model: Composite Curve)
- [University of Massachusetts-Amherst](#) [↗](#) (Model: UMass-trends_ensemble)
- [University of Massachusetts-Amherst](#) [↗](#) (Model: flusion)
- [University of Michigan, Computer Science and Engineering](#) [↗](#) (Model: DeepOutbreak)
- [University of Virginia, Biocomplexity Institute](#) [↗](#) (Model: UVAFluX-Ensemble)

Last Reviewed: April 15, 2024