




Influenza (Flu)

Forecasts of Flu Hospital Admissions

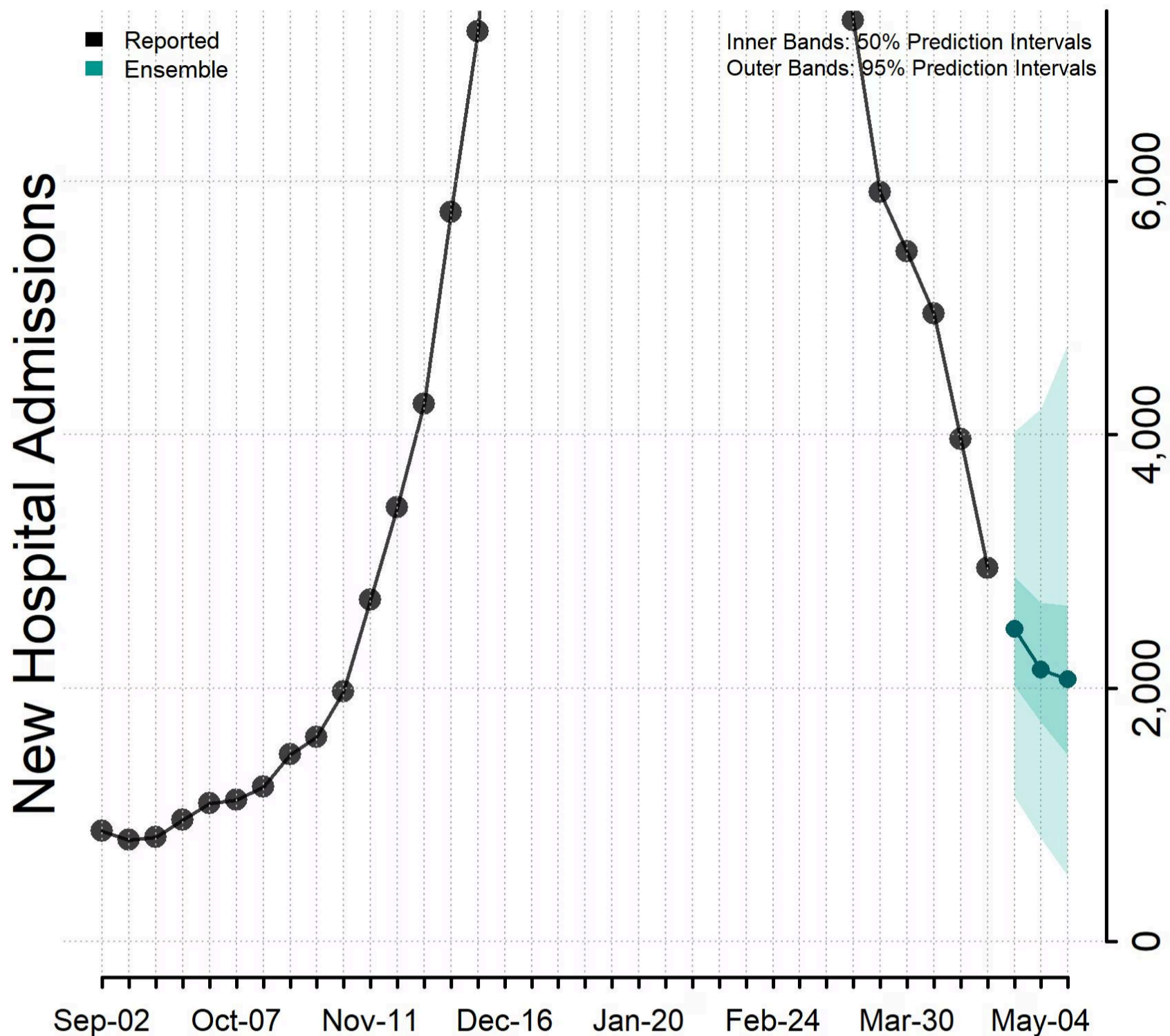
Updated April 26, 2024

Reported and forecasted new influenza hospital admissions as of April 24, 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 **520 to 4,700** laboratory confirmed influenza hospital admissions likely reported in the week ending May 11, 2024.
- This week, 24 modeling groups contributed 29 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 20 and forecasted new influenza hospital admissions per week for this week and the next 2 weeks, through May 11. 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](#) [957 KB, 14 pages]

[Download all forecast data](#) [XLS - 387 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)
- 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)
- Northeastern University & University of California San Diego [↗](#) (Model: GLEAM_AI_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 Guelph Dynamics Training Lab [↗](#) (Model: GRYPHON)
- 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)
- Virginia Tech, Sanghani Center for Artificial Intelligence and Data Analytics [↗](#) (Model: Ensemble Model)

Last Reviewed: April 26, 2024