

Influenza (Flu)

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Influenza Types
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Influenza in Animals

Forecasts of Flu Hospital Admissions

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Updated December 8, 2023

Reported and forecasted new influenza hospital admissions as of December 6, 2023.

Interpretation of Forecasts of New Hospital Admissions

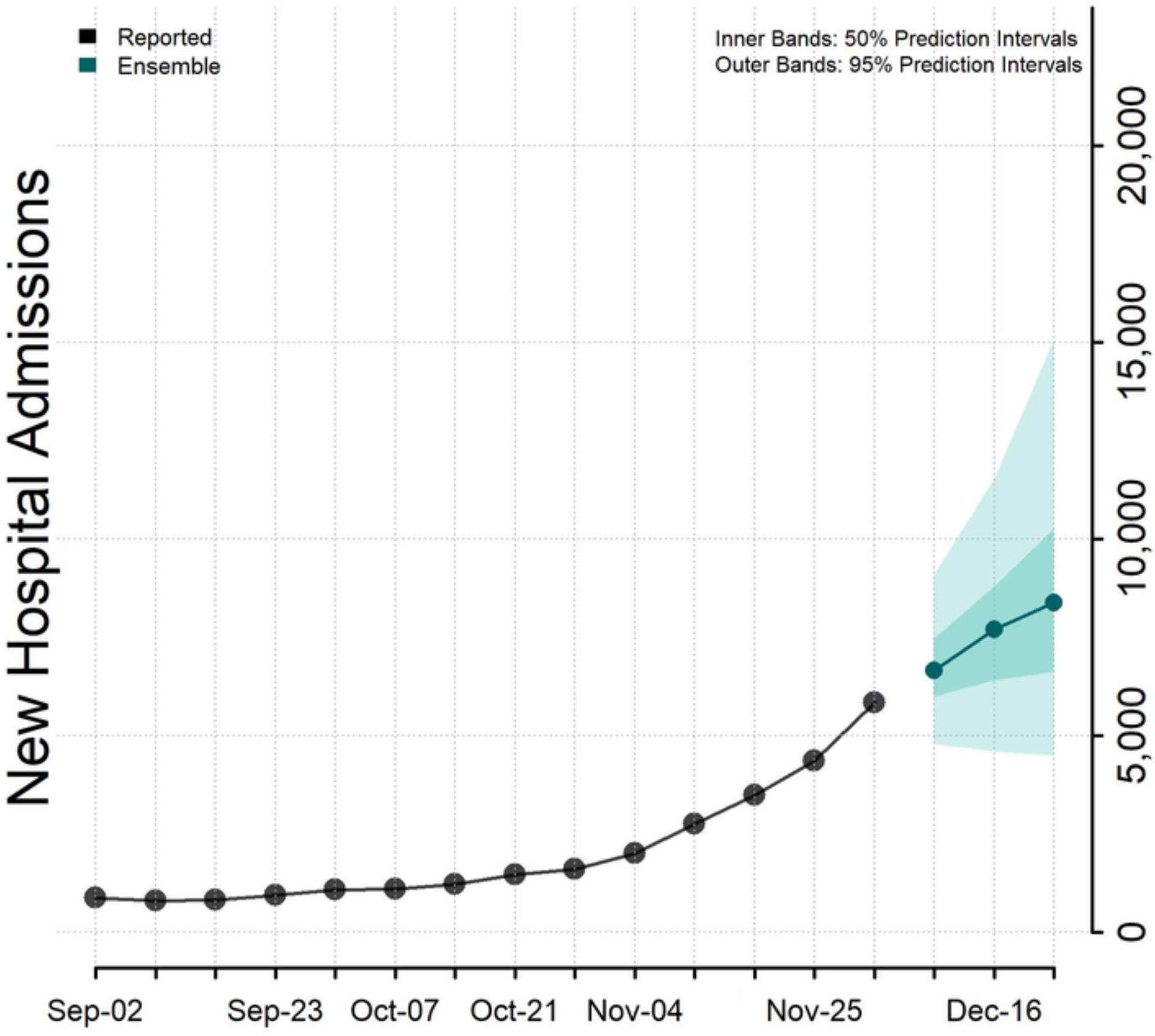
- This week's ensemble predicts that the number of new weekly laboratory confirmed influenza hospital admissions will likely increase nationally, with **4,500 to 15,000** laboratory confirmed influenza hospital admissions likely reported in the week ending December 23, 2023.
- This week, 24 modeling 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 December 2 and forecasted new influenza hospital admissions per week for this week and the next 2 weeks, through December 23. Hospitals are required to report daily laboratory-confirmed influenza hospitalizations to HHS Protect. See [COVID-19 Guidance for Hospital Reporting and FAQs](#). 📄 [680 KB, 52 pages] 🔗 for additional details on this guidance.

Reported and forecasted new influenza hospital admissions as of December 6, 2023.

Interpretation of National Forecasts of New Hospitalizations

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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](#) 📄 [801 KB, 14 pages]

[Download all forecast data](#) 📄 [XLS - 403 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)
- [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)
- [MIGHTE](#) 🔗 (Model: Nsemble)
- [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)
- [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)