Influenza (Flu)

CDC Centers for Disease Control and Prevention

Influenza (Flu)

# Forecasts of Flu Hospitalizations
Updated May 3, 2023

Reported and forecasted new influenza hospitalizations as of May 2, 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 **130 to 2,500** new confirmed influenza hospital admissions likely reported in the week ending May 27, 2023.

- This week, 16 modeling groups contributed 17 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 April 29 and forecasted new influenza hospital admissions per week over the next 4 weeks, through May 27. 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
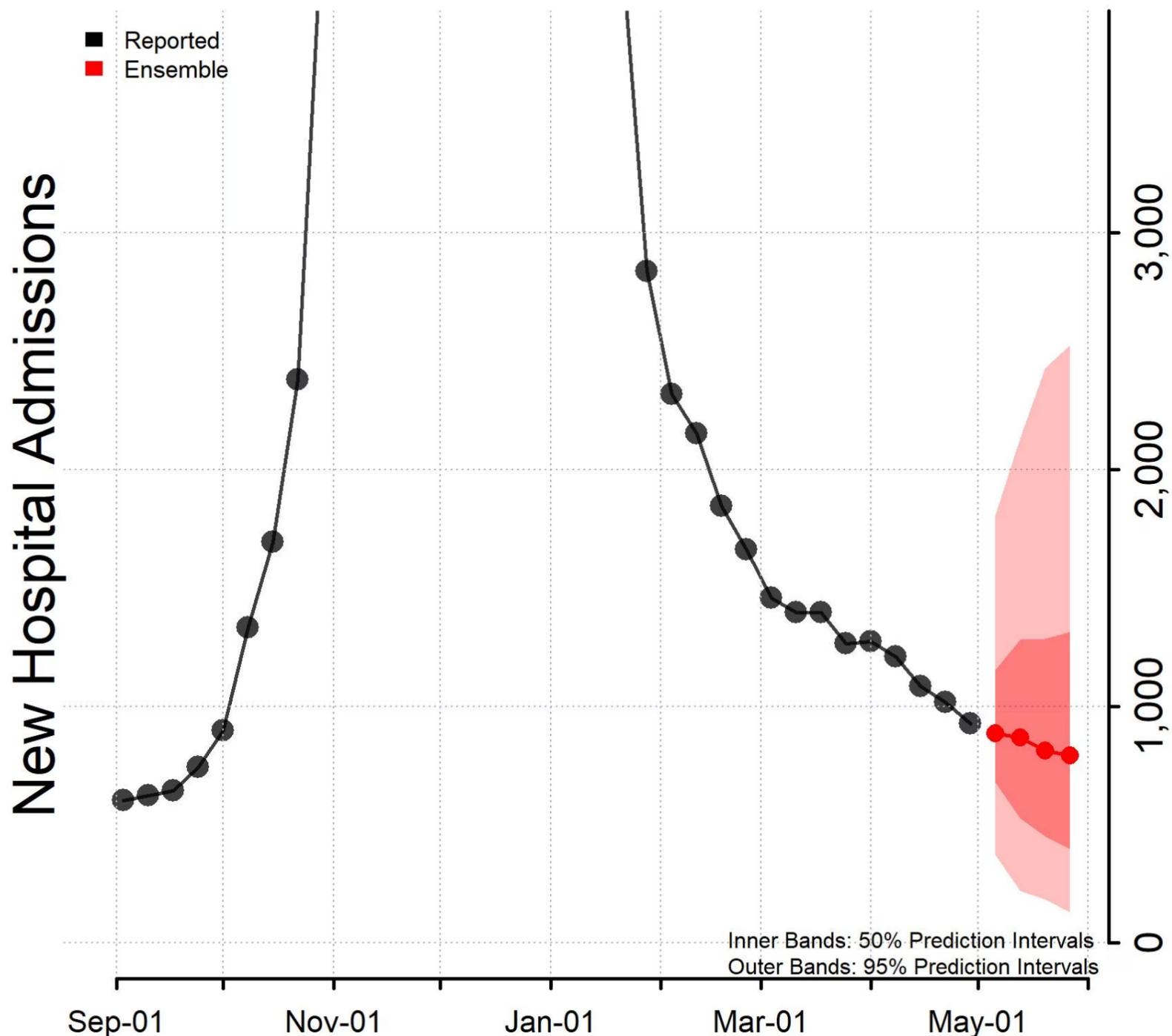
Download all national data [XLS – 10 KB]

State Forecasts

State-level forecasts show the predicted number of new influenza hospital admissions per week for the next 4 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 – 773 KB]

Download all forecast data [XLS – 336 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)
- Georgia Institute of Technology 🔗 (Model: GT-FluFNP)
- Johns Hopkins ID Dynamics 🔗 (Model: CovidScenarioPipeline)
- Los Alamos National Lab and Northern Arizona University 🔗 (Model: LosAlamos_NAU-CModel_Flu)
- 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: UMass-trends_ensemble)
- Virginia Tech, Sanghani Center for Artificial Intelligence and Data Analytics 🔗 (Model: VTSanghani-ExogModel)

Last Reviewed: May 3, 2023