U.S. Influenza Surveillance

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FDA Vaccines and Related Biological Products Advisory Committee (VRBPAC)
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Virologic Surveillance

Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, September 27, 2020 – February 27, 2021

Source: CDC FluView—https://www.cdc.gov/flu/weekly/index.htm
Influenza-Like Illness Surveillance (ILINet)

Percent of outpatient visits for ILI, by season.

FluView, Week 8 (ending February 27, 2021)

Source: CDC FluView—https://www.cdc.gov/flu/weekly/index.htm
Percentage of Visits for Influenza-like Illness (ILI) by Age Group
Reported by the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet),
Weekly National Summary, 2019-2020 and 2020-2021 Seasons

Source: CDC FluView—https://www.cdc.gov/flu/weekly/index.htm
Influenza-Associated Hospitalizations (FluSurv-NET)

- October 1, 2020—February 27, 2021
  - 14 states reported 193 laboratory confirmed influenza hospitalizations
  - Overall cumulative hospitalization rate of 0.7 per 100,000 population.
  - Lower than any season since routine data collection began in 2005, including the 2011-12 season (for which the rate was 2.3 times higher at this timepoint).

Source: CDC FluView—https://www.cdc.gov/flu/weekly/index.htm
Pneumonia, Influenza, and COVID-19 Mortality from the National Center for Health Statistics Mortality Surveillance System Data through the week ending February 27, 2021, as of March 4, 2021

Percent of deaths coded for pneumonia, influenza, and COVID-19

FluView, Week 8 (ending February 27, 2021; data as of March 4, 2021)

Source: CDC FluView—https://www.cdc.gov/flu/weekly/index.htm
Pediatric deaths associated with laboratory-confirmed influenza

FluView, Week 8 (ending February 27, 2021)

Source: CDC FluView—https://www.cdc.gov/flu/weekly/index.htm
Influenza Activity Summary

- U.S. Influenza activity for the 2020-21 season has been low
  - Percent of influenza specimens testing positive reported by clinical laboratories is unusually low
  - Influenza-like illness (ILI) activity below national baseline
  - Cumulative hospitalization rate 0.7/100,000 (lowest since 2005; lower than the 2011-12 season)

- Low activity likely multifactorial, related to COVID-19 mitigation strategies (masks, social distancing, school closures, less/restricted travel)

- Not possible to predict extent and timing of influenza activity for 2021-22
Influenza Vaccine Effectiveness (VE)
Influenza Vaccine Effectiveness (VE) for 2020-21

- Due to low influenza activity, no interim VE estimates available
- CDC networks continue to collect data and monitor activity
- Estimates later in the season dependent upon sufficient influenza activity within the CDC vaccine effectiveness networks
Thank you!