INFLUENZA ACTIVITY UPDATE:  
2022-2023 Influenza Season

February 9, 2023

Alicia Budd, MPH
Influenza Division, CDC

Virologic Surveillance – Percent Positive for Influenza

Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, October 2, 2022 – January 28, 2023
Virologic Surveillance – Virus Characteristics

- 99.5% influenza A
- 76% H3
- 24% H1
- 0.5% influenza B
- 100% Victoria lineage

Virus Collected in the U.S. since October 2, 2022

<table>
<thead>
<tr>
<th>Virus</th>
<th>Genetic Characterization</th>
<th>Antigenic Characterization</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/H1</td>
<td>591 0.2% - 6B.1A.5a.1</td>
<td>79 98.7% similar</td>
</tr>
<tr>
<td></td>
<td>99.8% - 6B.1A.5a.2</td>
<td></td>
</tr>
<tr>
<td>A/H3</td>
<td>1,073 100% - 3C.2a1b.2a.2</td>
<td>158 93% similar</td>
</tr>
<tr>
<td>B/Victoria</td>
<td>29</td>
<td>12 100% similar</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Antiviral Susceptibility

- Oseltamivir, Peramivir, Zanamivir – 1,691 tested, 1 (0.2%) with reduced inhibition by oseltamivir
- Baloxavir – 1,647 tested, 0 resistant

Outpatient Respiratory Illness

- Percentage of Outpatient Visits for Respiratory Illness by Age Group
- Weekly National Summary, October 1, 2022 - January 30, 2023
Long-term Care Facilities (LTCF) and Hospitals

- Percent of LTCFs with ≥1 Influenza Positive Test Among Residents, National Summary
  October 3, 2022 – January 29, 2023

- New Influenza Hospital Admissions
  Reported to HHS Protect, National Summary
  October 2, 2022 – January 28, 2023

- FluSurv-NET – Cumulative Rate of Influenza Hospitalizations, All Ages, 2015-16 to 2023 week 4

- FluSurv-NET – Weekly Rate of Influenza Hospitalizations, All Ages, 2015-16 to 2023 week 4

Mortality

- Pneumonia, Influenza, and COVID-19 Mortality from the National Center for Health Statistics Mortality Surveillance System
  Data as of February 2, 2023

- Influenza-Associated Pediatric Deaths by Week of Death, 2019-2020 season to 2022-2023 season
  2019-2020
  Number of Deaths = 196
  2020-2021
  Number of Deaths = 1
  2021-2022
  Number of Deaths = 41
  2022-2023
  Number of Deaths = 97
Summary

• Influenza activity continues to decline across the country.
• H3N2 remains the predominant virus.
• Declining activity ≠ no activity
• Surveillance continues year-round
• Upcoming meetings
  • ACIP on Feb. 22 - interim VE estimates
  • WHO’s Vaccine Consultation Meeting – Feb. 20 - 24
Questions?
abudd@cdc.gov

For more information, contact CDC
1-800-CDC-INFO (232-4636)

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.