INFLUENZA ACTIVITY UPDATE:
2022-2023 Influenza Season

December 1, 2022

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Virologic Surveillance – Percent Positive for Influenza
Virologic Surveillance – Virus Characteristics

- 99% influenza A
- 78% H3
- 22% H1
- 1% influenza B
- 100% Victoria lineage

<table>
<thead>
<tr>
<th>Virus</th>
<th>Genetic Characterization</th>
<th>Antigenic Characterization</th>
</tr>
</thead>
<tbody>
<tr>
<td>A/H1</td>
<td>7% - 68.1A.5a.1</td>
<td>94% similar to cell-grown</td>
</tr>
<tr>
<td></td>
<td>93% - 68.1A.5a.2</td>
<td>94% similar to egg-grown</td>
</tr>
<tr>
<td>A/H3</td>
<td>100% - 3C.2a1b.2a.2</td>
<td>100% similar to cell-grown</td>
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<td></td>
<td>96% similar to egg-grown</td>
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<tr>
<td>B/Victoria</td>
<td>100% - V1A.3</td>
<td>100% similar to cell-grown</td>
</tr>
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<td></td>
<td>100% similar to egg-grown</td>
</tr>
</tbody>
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Outpatient Respiratory Illness

- Highest levels match with areas reporting increased flu activity
- Also being driven by
  - RSV
  - Rhinovirus/Enterovirus
  - Sars-CoV-2
Long-term Care Facilities (LTCF) and Hospitals

Percent of LTCFs with ≥1 Influenza Positive Test Among Residents, National Summary
May 23, 2022 – November 20, 2022

New Influenza Hospital Admissions
Reported to HHS Protect, National Summary
May 22, 2022 – November 19, 2022

Week 46
Rate per 100,000
- Prior 10 years, overall: 0.1 - 1.4
- 2022, overall: 11.3

Mortality

Pneumonia, Influenza, and COVID-19 Mortality from the National Center for Health Statistics Mortality Surveillance System Data as of November 23, 2022

Influenza-Associated Pediatric Deaths by Week of Death, 2019-2020 season to 2022-2023 season

Age Group    2022 Rate    Prior 10 yr. Rate
0-4 years    20.7        0.1 – 2.2
5-17 years   10.3        0.1 – 0.7
18-49 years  5.6         0.1 – 0.7
50-64 years  11.1        0.1 – 1.4
65+ years    25.9        0.4 – 3.6

**Note: Rates are calculated based on the total number of deaths and the population at risk.**
Summary

- Influenza activity is increasing earlier than “usual.”
- It’s too early to know how severe the influenza season will be.
- In the U.S. so far this season influenza has caused:
  - At least 6.2 million symptomatic illnesses
  - At least 3 million medical visits
  - At least 53,000 hospitalizations
  - At least 2,900 deaths
- Other respiratory viruses are at elevated levels at the same time.
- It’s still a great time to get vaccinated!

Questions?

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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.