INFLUENZA ACTIVITY UPDATE: 2022-2023 Influenza Season

November 10, 2022

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Virologic Surveillance – Percent Positive for Influenza

Influenza Positive Tests Reported to CDC by U.S. Clinical Laboratories, National Summary, May 22, 2022 – October 29, 2022
Virologic Surveillance – Percent Positive for Influenza

Percent Positive for Influenza, by HHS Region
Clinical Laboratories Reporting to CDC
May 22, 2022 - October 29, 2022

Virologic Surveillance – Virus Characteristics

Viruses Collected in the U.S. since May 1, 2022

<table>
<thead>
<tr>
<th>Virus</th>
<th>Genetic Characterization</th>
<th>Antigenic Characterization</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number Tested</td>
<td>Clade/Subclade</td>
</tr>
<tr>
<td>A/H1</td>
<td>40</td>
<td>13% - 6B.1A.5a.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>88% - 6B.1A.5a.2</td>
</tr>
<tr>
<td>A/H3</td>
<td>418</td>
<td>100% - 3C.2a1b.2a.2</td>
</tr>
<tr>
<td>B/Victoria</td>
<td>2</td>
<td>100% - V1A.3</td>
</tr>
</tbody>
</table>

- 99% influenza A
- 79% H3
- 21% H1
- 1% influenza B
- 100% Victoria lineage
Outpatient Respiratory Illness

High 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 – October 30, 2022

New Influenza Hospital Admissions
Reported to HHS Protect, National Summary
May 22, 2022 – October 29, 2022
**FluSurv-NET – Hospitalization Rates**

Cumulative Rate of Laboratory-Confirmed Influenza Hospitalizations among cases of all ages, 2015-16 to 2022-23, MMWR Week 43

**Week 43**
Rate per 100,000

- Prior 10 years, overall: 0 – 0.5
- 2022, overall: 2.9

<table>
<thead>
<tr>
<th>Age Group</th>
<th>2022 Rate</th>
<th>Prior 10 yr. Rate</th>
</tr>
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<tbody>
<tr>
<td>0-4 years</td>
<td>5.5</td>
<td>0 – 0.9</td>
</tr>
<tr>
<td>5-17 years</td>
<td>2.6</td>
<td>0 – 0.3</td>
</tr>
<tr>
<td>18-49 years</td>
<td>1.5</td>
<td>0 – 0.2</td>
</tr>
<tr>
<td>50-64 years</td>
<td>2.8</td>
<td>0 – 0.5</td>
</tr>
<tr>
<td>65+ years</td>
<td>6.3</td>
<td>0.1 – 1.4</td>
</tr>
</tbody>
</table>

**Mortality**

Pneumonia, Influenza, and COVID-19 Mortality from the National Center for Health Statistics Mortality Surveillance System
Data as of November 3, 2022

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

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<thead>
<tr>
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<tbody>
<tr>
<td>Number of deaths = 198</td>
<td>Number of deaths = 1</td>
<td>Number of deaths = 44</td>
<td>Number of deaths = 2</td>
</tr>
</tbody>
</table>

**Deaths Reported Previous Week**
**Deaths Reported Current Week**
Influenza Activity Timing – early and not alone

Summary

- Influenza activity is increasing earlier than “usual.”
  - Highest in the southeast and south-central regions, followed by Mid-Atlantic and south-central West Coast
  - Mostly A/H3, some A/H1 and a few Bs
- It’s too early to know how severe the season will be.
- In the U.S. so far this season:
  - At least 1.6 million symptomatic illnesses
  - At least 760,000 medical visits
  - At least 13,000 hospitalizations
  - At least 730 deaths
- It’s a great time to get vaccinated!