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

- Region 1
- Region 2
- Region 3
- Region 4
- Region 5
- Region 6
- Region 7
- Region 8
- Region 9
- Region 10

**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></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B/Victoria</td>
<td>2</td>
<td>100% - V1A.3</td>
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</tbody>
</table>

- 99% influenza A
- 79% H3
- 21% H1
- 1% influenza B
- 100% Victoria lineage
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 – 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 Weeks 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>
</thead>
<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>

**In this figure, cumulative rates for all seasons prior to the 2022-23 season reflect end-of-season rates. For the 2022-23 season, rates for recent hospital admissions are subject to reporting delays. As hospitalization data are received each week, prior case counts and rates are updated accordingly.**

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

Number of deaths
- 2019-2020: 198
- 2020-2021: 1
- 2021-2022: 44
- 2022-2023: 2

Week of Death
- Deaths Reported Previous Weeks
- Deaths Reported Current Week
Influenza Activity Timing – early and not alone

Pre-COVID – Usually peaked in Dec.

RSV (reported to NREVSS)

2021 – Aug peak
2022 – peak ?

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!