RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 41, Ending October 16, 2021

Wisconsin Department of Health Services | Division of Public Health
Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section

www.dhs.wisconsin.gov/dph/bcd.htm | dhsdphbcd@dhs.wi.gov
INFLUENZA LIKE ILLNESS (ILI) ACTIVITY

STATE OF WISCONSIN

REGION V OF US (WI, MN, IL, MI, OH, IN)

UNITED STATES

ILI: HIGH LEVELS  ILI: MODERATE LEVELS  ILI: BELOW BASELINE  ILI: INSUFFICIENT DATA

AT-A-GLANCE:

Predominant Viruses of the Week:
RSV and Rhino/enterovirus are the predominant viruses this week.

Current Alerts:
This week is the beginning of the 2021-22 surveillance year. The 2020-2021 influenza season was unusually low due much in part to the ongoing COVID-19 pandemic. As such, numbers for that season are substantially different than previous seasons and should be considered an anomaly.

Additional data on SARS-CoV-2 (the virus causing COVID-19) trends in Wisconsin can be found at: [https://www.dhs.wisconsin.gov/covid-19/data.htm](https://www.dhs.wisconsin.gov/covid-19/data.htm)

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

<table>
<thead>
<tr>
<th></th>
<th>Week 41, 2021</th>
<th>October 1, 2021 to present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wisconsin</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Nationwide</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

INFLUENZA AND PNEUMONIA-ASSOCIATED MORTALITY

Influenza and Pneumonia Deaths, Wisconsin

Influenza- and pneumonia-associated deaths by influenza season year and week, Wisconsin

<table>
<thead>
<tr>
<th>Influenza season week</th>
<th>Influenza-associated deaths (I)</th>
<th>Pneumonia-associated deaths (P)</th>
<th>Percent I+P of all deaths</th>
<th>Baseline I+P of all deaths</th>
<th>Threshold I+P of all deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>0</td>
<td>116</td>
<td>9.8%</td>
<td>4.2%</td>
<td>5.0%</td>
</tr>
<tr>
<td>39</td>
<td>0</td>
<td>120</td>
<td>9.5%</td>
<td>4.2%</td>
<td>5.0%</td>
</tr>
<tr>
<td>40</td>
<td>0</td>
<td>116</td>
<td>10.6%</td>
<td>4.2%</td>
<td>4.9%</td>
</tr>
</tbody>
</table>

Preliminary Data

Influenza- and pneumonia-associated deaths by most recent 3 week period.

Data source: DPH, Office of Health Informatics
**Wisconsin positive influenza results and subtypes by PCR**

![Graph showing Wisconsin positive influenza results and subtypes by PCR](image)

**Cumulative number of positive influenza PCR tests by subtype**
October 9, 2021 to present

<table>
<thead>
<tr>
<th></th>
<th>A (2009 H1N1)</th>
<th>Influenza A: A (H3N2)</th>
<th>75% A (Unknown)</th>
<th>Influenza B: B (Victoria)</th>
<th>25% B (Unknown)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total positive (n)</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>% of total positive</td>
<td>0%</td>
<td>0%</td>
<td>75%</td>
<td>0%</td>
<td>25%</td>
<td>100%</td>
</tr>
</tbody>
</table>
# WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

## Trends in respiratory virus activity by PCR

![Graph showing trends in respiratory virus activity by PCR.](image)

### Week 41: Ending on October 16, 2021

<table>
<thead>
<tr>
<th>Respiratory virus</th>
<th>Tested</th>
<th>Positive (n)</th>
<th>Positive (%)</th>
<th>Influenza A</th>
<th>Influenza B</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H3N2</td>
<td>2009</td>
</tr>
<tr>
<td>Influenza</td>
<td>7260</td>
<td>2</td>
<td>&lt;0.1%</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Respiratory virus</th>
<th>Tested</th>
<th>Positive (n)</th>
<th>Positive (%)</th>
<th>Parainfluenza 1</th>
<th>Parainfluenza 2</th>
<th>Parainfluenza 3</th>
<th>Parainfluenza 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parainfluenza</td>
<td>975</td>
<td>55</td>
<td>5.6%</td>
<td>0</td>
<td>16</td>
<td>27</td>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Respiratory virus</th>
<th>Tested</th>
<th>Positive (n)</th>
<th>Positive (%)</th>
<th>CoV 229E</th>
<th>CoV OC43</th>
<th>CoV NL63</th>
<th>CoV HKU1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coronavirus (seasonal)</td>
<td>233</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Respiratory virus</th>
<th>Tested</th>
<th>Positive (n)</th>
<th>Positive (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSV</td>
<td>3242</td>
<td>775</td>
<td>23.9%</td>
</tr>
<tr>
<td>Human metapneumovirus</td>
<td>964</td>
<td>2</td>
<td>0.2%</td>
</tr>
<tr>
<td>Rhino-enterovirus</td>
<td>924</td>
<td>199</td>
<td>21.5%</td>
</tr>
<tr>
<td>Adenovirus</td>
<td>233</td>
<td>4</td>
<td>1.7%</td>
</tr>
</tbody>
</table>
**WISCONSIN STATE SUMMARY**

ILI activity trend analysis by influenza season, Wisconsin

![Graph showing ILI activity trend analysis by influenza season, Wisconsin](image)

**Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System**

October 1, 2021 to present

<table>
<thead>
<tr>
<th>Age group (years)</th>
<th>Total reported (n)</th>
<th>A (2009 H1N1)</th>
<th>A (H3N2)</th>
<th>A (Unknown)</th>
<th>B</th>
<th>Not reported</th>
<th>Admitted to ICU</th>
<th>Required mechanical ventilation</th>
<th>Pregnant</th>
<th>Postpartum (≤6 weeks)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1-4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5-17</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>18-49</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>50-64</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>65+</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin**

![Graph showing reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin](image)

*The 2020 - 2021 influenza season was unusually low due much in part to the ongoing COVID-19 pandemic. As such, numbers for that season are substantially different than previous seasons and should be considered an anomaly.*
ILI ACTIVITY TREND ANALYSIS

Wisconsin

Northeastern Region

Northern Region
ILI ACTIVITY TREND ANALYSIS

Southeastern Region

Average % ILI
Baseline
Threshold

Southern Region

Average % ILI
Baseline
Threshold

Western Region

Average % ILI
Baseline
Threshold
Influenza vaccine composition 2021-2022:

**Egg-based vaccines** are recommended to contain:
- A/Victoria/2570/2019 (H1N1) pdm09-like virus
- A/Cambodia/e0826360/2020 (H3N2)-like virus
- B/Washington/02/2019- like virus (B/Victoria lineage)
- B/Phuket/3073/2013-like virus (B/Yamagata lineage)

**Cell- or recombinant-based vaccines** are recommended to contain:
- A/Wisconsin/588/2019 (H1N1) pdm09-like virus
- A/Cambodia/e0826360/2020 (H3N2)-like virus
- B/Washington/02/2019- like virus (B/Victoria lineage)
- B/Phuket/3073/2013-like virus (B/Yamagata lineage)

Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2021-2022 influenza season:

- **Healthy People 2030 Goal:** 70%
- **2020-2021 Total Vaccinated:** 44%
- **2021-2022 Total Vaccinated (as of this week):** 16%

Data source: All influenza vaccination rates presented were calculated using data from the Wisconsin Immunization Registry (numerator) and Wisconsin population estimates (denominator).
SEASONAL INFLUENZA VACCINATION

Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by age group and influenza season

Each season includes doses administered during the same time period (August 1 through May 3).

Percentage of Wisconsin residents who received one or more doses of influenza vaccine, by race and ethnicity and region, 2021-2022 influenza season

**All of Wisconsin**
- Total: 15%
- Non-Hispanic: 16%
- Hispanic: 9%
- White: 14%
- Black: 6%
- Asian: 11%
- American Indian/Alaska-Native: 7%

**Northeastern**
- Total: 16%
- Non-Hispanic: 17%
- Hispanic: 9%
- White: 14%
- Black: 6%
- Asian: 10%
- American Indian/Alaska-Native: 8%

**Northern**
- Total: 14%
- Non-Hispanic: 14%
- Hispanic: 7%
- White: 12%
- Black: 5%
- Asian: 9%
- American Indian/Alaska-Native: 9%

**Southeastern**
- Total: 15%
- Non-Hispanic: 15%
- Hispanic: 8%
- White: 13%
- Black: 6%
- Asian: 11%
- American Indian/Alaska-Native: 6%

**Southern**
- Total: 18%
- Non-Hispanic: 19%
- Hispanic: 12%
- White: 16%
- Black: 8%
- Asian: 16%
- American Indian/Alaska-Native: 13%

**Western**
- Total: 13%
- Non-Hispanic: 13%
- Hispanic: 7%
- White: 12%
- Black: 5%
- Asian: 8%
- American Indian/Alaska-Native: 6%