RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 27, Ending July 10, 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: BELOW BASELINE

ILI: MODERATE LEVELS

ILI: HIGH LEVELS

ILI: INSUFFICIENT DATA

AT-A-GLANCE:

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

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

<table>
<thead>
<tr>
<th>States</th>
<th>Week 27, 2021</th>
<th>October 1, 2020 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>1</td>
</tr>
</tbody>
</table>

Current Alerts:
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

For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/
### 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>25</td>
<td>0</td>
<td>34</td>
<td>3.6%</td>
<td>5.0%</td>
<td>5.7%</td>
</tr>
<tr>
<td>26</td>
<td>0</td>
<td>41</td>
<td>4.1%</td>
<td>4.8%</td>
<td>5.6%</td>
</tr>
<tr>
<td>27 Preliminary Data</td>
<td>0</td>
<td>49</td>
<td>6.4%</td>
<td>5.0%</td>
<td>5.7%</td>
</tr>
<tr>
<td><strong>Seasonal total</strong></td>
<td>0</td>
<td><strong>4290</strong></td>
<td><strong>8.5%</strong></td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Data source: [DPH, Office of Health Informatics](#)
Wisconsin positive influenza results and subtypes by PCR

Cumulative number of positive influenza PCR tests by subtype
October 1, 2020 to present

<table>
<thead>
<tr>
<th></th>
<th>A (2009 H1N1)</th>
<th>Influenza A: A (H3N2)</th>
<th>41% A (Unknown)</th>
<th>B (Victoria)</th>
<th>Influenza B: B (Yamagata)</th>
<th>59% B (Unknown)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total positive (n)</td>
<td>2</td>
<td>3</td>
<td>30</td>
<td>0</td>
<td>0</td>
<td>51</td>
<td>86</td>
</tr>
<tr>
<td>% of total positive</td>
<td>2%</td>
<td>3%</td>
<td>35%</td>
<td>0%</td>
<td>0%</td>
<td>59%</td>
<td>100%</td>
</tr>
</tbody>
</table>
WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR

Week 27: Ending on July 3, 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 H1N1</td>
</tr>
<tr>
<td>Influenza</td>
<td>1691</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Parainfluenza</td>
<td>689</td>
<td>93</td>
<td>13.5%</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Coronavirus (seasonal)</td>
<td>133</td>
<td>2</td>
<td>1.5%</td>
<td>0</td>
<td>2</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>RSV</td>
<td>1135</td>
<td>51</td>
<td>4.5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human metapneumovirus</td>
<td>697</td>
<td>1</td>
<td>.10%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rhino-enterovirus</td>
<td>668</td>
<td>100</td>
<td>15.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adenovirus</td>
<td>133</td>
<td>4</td>
<td>3.0%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
WISCONSIN STATE SUMMARY

ILI activity trend analysis by influenza season, Wisconsin

Influenza-associated hospitalizations, Wisconsin Electronic Disease Surveillance System
October 1, 2020 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>2</td>
<td>0</td>
<td>0</td>
<td>2</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>3</td>
<td>0</td>
<td>1</td>
<td>2</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>12</td>
<td>0</td>
<td>1</td>
<td>11</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>17</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>15</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin
ILI ACTIVITY TREND ANALYSIS

Wisconsin

Northern Region

Northeastern Region

Average % ILI  Baseline  Threshold  3-week moving average (average % ILI)

Average % ILI  Week ending  Average % ILI  Baseline  Threshold

Average % ILI  Week ending  Average % ILI  Baseline  Threshold
ILI ACTIVITY TREND ANALYSIS

Southeastern Region

Southern Region

Western Region
Influenza vaccine composition 2020-2021:

**Trivalent (three-component) egg-based vaccines** are recommended to contain:
- A/Guangdong-Maonan/SWL1536/2019 (H1N1)pdm09-like virus (updated)
- A/Hong Kong/2671/2019 (H3N2)-like virus (updated)
- B/Washington/02/2019 (B/Victoria lineage)-like virus (updated)

**Quadrivalent (four-component) egg-based vaccines**, which protect against a second lineage of B viruses, are recommended to contain:
the three recommended viruses above, plus B/Phuket/3073/2013-like (Yamagata lineage) virus.

**Cell- or recombinant-based vaccines** are recommended to contain:
- A/Hawaii/70/2019 (H1N1)pdm09-like virus (updated)
- A/Hong Kong/45/2019 (H3N2)-like virus (updated)
- B/Washington/02/2019 (B/Victoria lineage)-like virus (updated)
- B/Phuket/3073/2013-like (Yamagata lineage) virus

Cumulative percentage of Wisconsin residents who received 1 or more doses of influenza vaccine, 2020-2021 influenza season

As of this week, the influenza vaccination coverage in Wisconsin is 2% higher than this time last year.

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

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, 2020-2021 influenza season

All of Wisconsin

- **Total**: 42%
- **Non-Hispanic**: 43%
- **Hispanic**: 29%
- **White**: 42%
- **Black**: 25%
- **Asian**: 36%
- **American Indian/Alaska-Native**: 27%

Northeastern

- **Total**: 43%
- **Non-Hispanic**: 44%
- **Hispanic**: 29%
- **White**: 43%
- **Black**: 22%
- **Asian**: 32%
- **American Indian/Alaska-Native**: 32%

Northern

- **Total**: 41%
- **Non-Hispanic**: 40%
- **Hispanic**: 26%
- **White**: 40%
- **Black**: 20%
- **Asian**: 32%
- **American Indian/Alaska-Native**: 25%

Southeastern

- **Total**: 42%
- **Non-Hispanic**: 44%
- **Hispanic**: 29%
- **White**: 42%
- **Black**: 26%
- **Asian**: 37%
- **American Indian/Alaska-Native**: 20%

Southern

- **Total**: 41%
- **Non-Hispanic**: 42%
- **Hispanic**: 30%
- **White**: 41%
- **Black**: 25%
- **Asian**: 39%
- **American Indian/Alaska-Native**: 33%

Western

- **Total**: 40%
- **Non-Hispanic**: 41%
- **Hispanic**: 29%
- **White**: 40%
- **Black**: 20%
- **Asian**: 33%
- **American Indian/Alaska-Native**: 22%