RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 6, Ending February 12, 2022

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:
  Seasonal Coronaviruses and Human Metapneumovirus are the predominant viruses this week.

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

<table>
<thead>
<tr>
<th></th>
<th>Week 6, 2022</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>5</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>4</td>
<td>3</td>
<td>156</td>
<td>10.9%</td>
<td>5.7%</td>
<td>6.5%</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>155</td>
<td>11.7%</td>
<td>5.8%</td>
<td>6.6%</td>
</tr>
<tr>
<td>6</td>
<td>Preliminary Data</td>
<td>3</td>
<td>91</td>
<td>9.3%</td>
<td>5.9%</td>
</tr>
</tbody>
</table>

Data source: DPH, Office of Health Informatics
WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Wisconsin positive influenza results and subtypes by PCR

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:</th>
<th>98%</th>
<th>Influenza B:</th>
<th>2%</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (unknown subtype)</td>
<td>14</td>
<td>856</td>
<td>5,137</td>
<td>1</td>
<td>0</td>
<td>110</td>
</tr>
<tr>
<td>A (H3N2 seasonal)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6,118</td>
</tr>
<tr>
<td>A (H1N1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A (H3N2v)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B (unknown subtype)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B (Victoria)</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B (Yamagata)</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B (Unknown)</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

% of total positive

0% 14% 84% 0% 0% 2% 100%
WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR

Week 6, Ending on February 12, 2022

<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>7300</td>
<td>262</td>
<td>3.6</td>
<td>27</td>
<td>1</td>
</tr>
<tr>
<td>Parainfluenza</td>
<td>682</td>
<td>21</td>
<td>3.1%</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Coronavirus (seasonal)</td>
<td>162</td>
<td>12</td>
<td>7.4%</td>
<td>4</td>
<td>8</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>3160</td>
<td>69</td>
<td>2.2%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human metapneumovirus</td>
<td>702</td>
<td>44</td>
<td>6.3%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rhino-enterovirus</td>
<td>649</td>
<td>36</td>
<td>5.5%</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adenovirus</td>
<td>162</td>
<td>2</td>
<td>1.2%</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, 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>4</td>
<td>0</td>
<td>0</td>
<td>4</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>9</td>
<td>1</td>
<td>0</td>
<td>7</td>
<td>1</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5-17</td>
<td>14</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>18-49</td>
<td>51</td>
<td>0</td>
<td>6</td>
<td>44</td>
<td>1</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>50-64</td>
<td>33</td>
<td>0</td>
<td>1</td>
<td>30</td>
<td>2</td>
<td>0</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>65+</td>
<td>155</td>
<td>1</td>
<td>6</td>
<td>136</td>
<td>12</td>
<td>0</td>
<td>7</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>266</strong></td>
<td><strong>3</strong></td>
<td><strong>13</strong></td>
<td><strong>234</strong></td>
<td><strong>16</strong></td>
<td><strong>0</strong></td>
<td><strong>25</strong></td>
<td><strong>3</strong></td>
<td><strong>7</strong></td>
<td><strong>0</strong></td>
</tr>
</tbody>
</table>

Reported cumulative influenza-associated hospitalizations by influenza season, Wisconsin

*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

Southern Region

Western Region
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)

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: 39%
  - Non-Hispanic: 39%
  - Hispanic: 26%
  - White: 26%
  - Black: 22%
  - Asian: 33%
  - American Indian/Alaska-Native: 23%

- **Northeastern**
  - Total: 38%
  - Non-Hispanic: 39%
  - Hispanic: 26%
  - White: 19%
  - Black: 29%
  - Asian: 24%
  - American Indian/Alaska-Native: 23%

- **Northern**
  - Total: 37%
  - Non-Hispanic: 37%
  - Hispanic: 23%
  - White: 37%
  - Black: 28%
  - Asian: 28%
  - American Indian/Alaska-Native: 21%

- **Southeastern**
  - Total: 38%
  - Non-Hispanic: 38%
  - Hispanic: 25%
  - White: 32%
  - Black: 22%
  - Asian: 38%
  - American Indian/Alaska-Native: 18%

- **Southern**
  - Total: 44%
  - Non-Hispanic: 43%
  - Hispanic: 32%
  - White: 38%
  - Black: 22%
  - Asian: 34%
  - American Indian/Alaska-Native: 34%

- **Western**
  - Total: 36%
  - Non-Hispanic: 36%
  - Hispanic: 25%
  - White: 25%
  - Black: 17%
  - Asian: 34%
  - American Indian/Alaska-Native: 20%