RESPIRATORY VIRUS SURVEILLANCE REPORT

Week 9, Ending March 5, 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:
Rhino/Enterovirus and Human Metapneumovirus are the predominant viruses this week.

Current Alerts:
Influenza activity is increasing in Wisconsin and nationwide. Two influenza-associated pediatric deaths were reported this week.

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

INFLUENZA-ASSOCIATED PEDIATRIC DEATHS REPORTED:

<table>
<thead>
<tr>
<th></th>
<th>Week 9, 2022</th>
<th>October 1, 2021 to present</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wisconsin</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Nationwide</td>
<td>2</td>
<td>10</td>
</tr>
</tbody>
</table>

For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/
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>7</td>
<td>4</td>
<td>90</td>
<td>7.2%</td>
<td>6.0%</td>
<td>6.8%</td>
</tr>
<tr>
<td>8</td>
<td>0</td>
<td>84</td>
<td>7.5%</td>
<td>6.1%</td>
<td>6.9%</td>
</tr>
<tr>
<td>9 (Preliminary Data)</td>
<td>1</td>
<td>66</td>
<td>7.4%</td>
<td>6.1%</td>
<td>6.9%</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 9, 2021 to present

<table>
<thead>
<tr>
<th></th>
<th>A (2009 H1N1)</th>
<th>Influenza A: A (H3N2)</th>
<th>98% A (Unknown)</th>
<th>Influenza B: B (Victoria)</th>
<th>2% B (Unknown)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total positive (n)</td>
<td>16</td>
<td>951</td>
<td>5,994</td>
<td>1</td>
<td>0</td>
<td>156</td>
</tr>
<tr>
<td>% of total positive</td>
<td>0%</td>
<td>13%</td>
<td>84%</td>
<td>0%</td>
<td>0%</td>
<td>2%</td>
</tr>
</tbody>
</table>
WISCONSIN LABORATORY SURVEILLANCE FOR RESPIRATORY VIRUSES BY PCR

Trends in respiratory virus activity by PCR

Week 9, Ending on March 5, 2022

<table>
<thead>
<tr>
<th>Respiratory virus</th>
<th>Tested</th>
<th>Positive (n)</th>
<th>Positive (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influenza</td>
<td>5206</td>
<td>311</td>
<td>6.0%</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>Parainfluenza</td>
<td>512</td>
<td>9</td>
<td>1.8%</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>Coronavirus (seasonal)</td>
<td>196</td>
<td>14</td>
<td>7.1%</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>2140</td>
<td>32</td>
<td>1.5%</td>
</tr>
<tr>
<td>Human metapneumovirus</td>
<td>524</td>
<td>47</td>
<td>9.0%</td>
</tr>
<tr>
<td>Rhino-enterovirus</td>
<td>485</td>
<td>38</td>
<td>7.8%</td>
</tr>
<tr>
<td>Adenovirus</td>
<td>225</td>
<td>6</td>
<td>2.7%</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>6</td>
<td>0</td>
<td>0</td>
<td>6</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>13</td>
<td>1</td>
<td>0</td>
<td>11</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>17</td>
<td>1</td>
<td>0</td>
<td>16</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>18-49</td>
<td>67</td>
<td>0</td>
<td>6</td>
<td>60</td>
<td>1</td>
<td>0</td>
<td>7</td>
<td>0</td>
<td>8</td>
<td>0</td>
</tr>
<tr>
<td>50-64</td>
<td>50</td>
<td>0</td>
<td>1</td>
<td>47</td>
<td>2</td>
<td>0</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>65+</td>
<td>198</td>
<td>1</td>
<td>10</td>
<td>174</td>
<td>13</td>
<td>0</td>
<td>11</td>
<td>3</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>351</td>
<td>3</td>
<td>17</td>
<td>314</td>
<td>17</td>
<td>0</td>
<td>31</td>
<td>6</td>
<td>8</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

Average % ILI | Baseline | Threshold
---|---|---
10/2 | 0% | 4%
10/23 | | 
11/13 | | 
12/4 | | 
12/25 | | 
1/15 | | 
2/5 | | 
2/26 | | 
3/19 | | 
4/9 | | 
4/30 | | 
5/21 | | 
6/11 | | 
7/2 | | 
7/23 | | 
8/13 | | 
9/3 | | 
10/1 | | 

Northeastern Region

Average % ILI | Baseline | Threshold
---|---|---
10/2 | 0% | 4%
10/30 | | 
11/27 | | 
12/25 | | 
1/22 | | 
2/19 | | 
3/19 | | 
4/16 | | 
5/14 | | 
6/11 | | 
7/9 | | 
8/6 | | 
9/3 | | 
10/1 | | 

Northern Region

Average % ILI | Baseline | Threshold
---|---|---
10/2 | 0% | 3%
10/23 | | 
11/13 | | 
12/4 | | 
12/25 | | 
1/22 | | 
2/19 | | 
3/19 | | 
4/16 | | 
5/14 | | 
6/11 | | 
7/9 | | 
8/6 | | 
9/3 | | 
10/1 | |
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)
**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**: 27%
- **White**: 22%
- **Black**: 20%
- **Asian**: 33%
- **American Indian/Alaska-Native**: 23%

**Northeastern**
- **White**: 27%
- **Black**: 20%
- **Asian**: 30%
- **American Indian/Alaska-Native**: 25%

**Northern**
- **White**: 38%
- **Black**: 22%
- **Asian**: 29%
- **American Indian/Alaska-Native**: 22%

**Southeastern**
- **White**: 26%
- **Black**: 23%
- **Asian**: 34%
- **American Indian/Alaska-Native**: 19%

**Southern**
- **White**: 45%
- **Black**: 23%
- **Asian**: 39%
- **American Indian/Alaska-Native**: 35%

**Western**
- **White**: 25%
- **Black**: 18%
- **Asian**: 30%
- **American Indian/Alaska-Native**: 20%