Week Ending Saturday 02/22/2020

Shirley Louie, MS, CIH
Acting State Epidemiologist; Director, Center for Public Health Practice

Prepared by:
Haytham Safi, MD, MPH
Influenza Surveillance Coordinator
Haytham.Safi@Arkansas.gov
501-661-2920

Reviewed by:
Lori Simmons, MS, Branch Chief, Epidemiology
Kellye McCartney, Branch Chief, Immunizations/Outbreak Control
Jennifer Dillaha, MD, Medical Director, Immunizations/Outbreak Response
Mike Cima, PhD, Chief Epidemiologist, Associate Director for Science, CHP

February 26, 2020
During flu season, the Arkansas Department of Health (ADH) produces a Weekly Influenza Report for clinicians. The report provides information on flu activity in the state. The report also compares influenza-like-illness (ILI) in Arkansas to activity in the U.S. ADH receives reports of only a fraction of flu cases since it only requires reports of hospitalizations, deaths, and outbreaks. Therefore, it is important to understand that the information in the weekly update is representative of the timing and location of activity, but it does not reflect the overall burden of disease. It is presumed that there are many more people actually affected than the report shows. Clinicians and policy makers may find the report helpful in terms of communicating to colleagues and patients about the current status of the flu season.

**Report Key Points:**

- For Week 8, Arkansas reported “Widespread” activity to the Centers for Disease Control and Prevention (CDC) for geographic spread of influenza, and “High” or 9 out of 10 for ILI intensity.

- Since September 29, 2019, 27,500 positive influenza tests have been reported to the ADH online database by health care providers, with over 2,260 positive tests reported this week. **Please note that reported cases reflect only a portion of the actual numbers of flu cases in the state.**

- Among flu antigen tests this season that can distinguish between influenza A and B virus types, 50 percent were influenza A, and 50 percent were influenza B.

- There were 585 positive PCR flu tests from private labs this week: 301 tested positive for influenza A, 284 tested positive for influenza B. At the ADH lab, 3 samples tested positive for influenza A Subtype H1N1, and 3 samples tested negative for flu this week.

- About 6.7 percent of patients visiting emergency rooms this week were there for ILI (Syndromic Surveillance). About 4.7 percent of outpatient visits were for ILI (ILINet sentinel providers).

- The average school absenteeism rate last week was 7.3 percent among public schools. As of February 25, 2020, ADH is aware of 41 schools/districts that closed briefly due to the flu this season.

- To date, 65 influenza-related deaths have been reported in Arkansas this flu season, one of them was a pediatric death. CDC estimates a total of 16,000 flu deaths have occurred nationwide including 105 pediatric deaths reported this season.

- Since September 29, 2019, 9 facilities including 7 nursing homes have reported influenza outbreaks.

- Nationally, the proportion of deaths reported to the National Center for Health Statistics attributed to pneumonia and influenza (P&I) remains below the epidemic threshold this week.

- For Week 7, the geographic spread of influenza was reported as widespread in Puerto Rico and 47 states, and regional in 3 states. The District of Columbia reported local activity, the U.S. Virgin Islands reported sporadic activity, and Guam did not report.


**For Additional National and International Influenza Surveillance Information:**


CDC - Seasonal Influenza (Flu) - Weekly Report: [http://www.cdc.gov/flu/weekly/](http://www.cdc.gov/flu/weekly/)
Death Report for Week 8
- Deaths from all causes: 657
- Deaths due to Pneumonia: 52
- PCR confirmed Flu Deaths: 4
- Death Certificate or Flu Antigen only: 5

Cumulative Flu Deaths since 09/29/2019
- PCR confirmed Flu deaths: 12
- Death Certificate or Antigen only: 53
- Cumulative Flu deaths: 65

ER Visits (Syndromic Surveillance)
- Week Ending: 02/22/2020
  Weighted Average: 6.7%
  Total Visits: 22,173
  Visits with ILI: 1,476
- Previous Week
  Weighted Average: 7.2%
  Total Visits: 21,830
  Visits with ILI: 1,579

Total Flu-Related Hospital Admissions
- PCR Confirmed:
  - Cumulative: 341
  - Week ending 02/22/2020: 34
- Antigen Positive:
  - Cumulative: 564
  - Week ending 02/22/2020: 40

Weekly Arkansas ILI Intensity Level
Reported by Sentinel Providers

PCR Lab Confirmed Influenza Cases
- Total Cases since 09/29/2019: 5,187
- Week ending 02/22/2020: 588

Reported cases reflect only a portion of the actual numbers of flu cases in the state.

<table>
<thead>
<tr>
<th>PCR Tests</th>
<th>ADH Lab Week 8</th>
<th>Other Labs Week 8</th>
<th>Cumulative Cases Since 09/29/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>0</td>
<td>301</td>
<td>2,455</td>
</tr>
<tr>
<td>B+</td>
<td>0</td>
<td>284</td>
<td>2,583</td>
</tr>
<tr>
<td>Both A and B</td>
<td>0</td>
<td>0</td>
<td>33</td>
</tr>
<tr>
<td>B/Victoria</td>
<td>0</td>
<td>0</td>
<td>40</td>
</tr>
<tr>
<td>B/Yamagata</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>H1N1+</td>
<td>3</td>
<td>0</td>
<td>75</td>
</tr>
<tr>
<td>H3+</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Unsubtypeable</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>3</td>
<td>585</td>
<td>5,187</td>
</tr>
<tr>
<td>Negative</td>
<td>3</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

PCR Confirmed Influenza Cases since 09/29/2019

<table>
<thead>
<tr>
<th>Age Groups</th>
<th>PCR+</th>
<th>Hospitalized</th>
<th>Deaths</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4 yr.</td>
<td>1,001</td>
<td>14</td>
<td>0</td>
</tr>
<tr>
<td>5-18 yr.</td>
<td>2,336</td>
<td>9</td>
<td>0</td>
</tr>
<tr>
<td>19-24 yr.</td>
<td>188</td>
<td>13</td>
<td>0</td>
</tr>
<tr>
<td>25-44 yr.</td>
<td>721</td>
<td>45</td>
<td>2</td>
</tr>
<tr>
<td>45-64 yr.</td>
<td>590</td>
<td>119</td>
<td>7</td>
</tr>
<tr>
<td>&gt;= 65 yr.</td>
<td>329</td>
<td>141</td>
<td>3</td>
</tr>
<tr>
<td>Unknown</td>
<td>22</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>5,187</td>
<td>341</td>
<td>12</td>
</tr>
</tbody>
</table>

School Absenteeism*

Week Ending: 02/22/2020
- Percent Absent: 7.3
- Previous Week: 7.6
  - Average daily absenteeism for all public schools during this reporting week.

Geographic ILI Activity Level Reported for Week 8:
Weekly School Absenteeism Rates, Arkansas Public Schools

School Absenteeism Rate per County, Arkansas 2019-2020
Percent Absent for Week Ending 2/22/2020

Data: February 26, 2020
Source: Arkansas Department of Health
Author: Haydn Safi, Epidemiologist

Percent of students absent
- 0 - 5
- > 5 - 10
- > 10 - 15
- > 15 - 20
- > 20
- No Report
- Increase 10% from Previous Rate
Influenza Mortality by Age Group, Arkansas 2005-2020 (Provisional)
Report Updated: 2/25/2020

Flu Season

* All seasons range from week 40 to week 39 except 2009-2010 started week 36
Source: ADH Outbreak Response Section, and Center for Health Statistics

Hospital Report – Downloaded from ESSENCE (Syndromic Surveillance)
Percent ER Visits with ILI
Arkansas Subset of US Outpatients Influenza Surveillance (ILINET)

**Percentage of Outpatient Visits Due to Influenza-like Illness Reported by ILINet in Arkansas**

![Chart showing percentage of outpatient visits due to ILI in Arkansas, with data for 2019-20 and average 2013-18.]

<table>
<thead>
<tr>
<th>Week, Month of Report</th>
<th>2019-20</th>
<th>Average 2013-18</th>
<th>Off Season Rate</th>
<th>2018-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nov</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dec</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jan</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Feb</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mar</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apr</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>May</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jun</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Jul</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aug</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sep</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Weekly Influenza Claims Paid by Medicaid and BCBS of Arkansas**

![Chart showing weekly influenza claims paid, with data for 2018-19, average 2013-19, and off season baseline.]

Week, Month of Report

- **Average 2013-19**
- **YR 2018-19**
- **Off Season Baseline**
- **YR 2019-20**
Antigen Report

Reported Influenza Positive Antigens by Age Group, Arkansas 2019-20

- Number of Positive Tests
- Year Week
- 0-4 Yrs 5-18 Yrs 19-24 Yrs 25-44 Yrs 45-64 Yrs 65+ Yrs

Reported Influenza Positive Antigens by Type, Arkansas 2019-20

- Number of Positive Tests
- Year Week
- A+ Antigen B+ Antigen Positive for Both A & B
Influenza Positive Tests Reported to CDC and ILI Activity, by HHS Region, 2018-2019 Season, Week Ending February 15, 2020

Values in legend are for the highlighted HHS region (Region 6)

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists

Week ending February 15, 2020 - Week 7

Arkansas Flu Activity Level Reported for Week 8: Widespread
Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, 2019-2020 Season

Pneumonia and Influenza Mortality from the National Center for Health Statistics Mortality Surveillance System Data through the week ending February 8, 2020, as of February 20, 2020