Outbreak Response/Epidemiology
Influenza Weekly Report
Arkansas 2018-2019

Week Ending Saturday 04/13/2019

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April 16, 2019
During the 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. 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 15, Arkansas reported “Local” activity to the Centers for Disease Control and Prevention (CDC) for geographic spread of influenza, and “Minimal” or 2/10 for ILI intensity.
- Since September 30, 2018, over 32,400 positive influenza tests have been reported to the ADH online database by health care providers. In Week 15, 42 counties reported influenza cases. The majority of reports came from Pulaski, Crittenden, White, Craighead, Garland, Independence, and Johnson.
- Among flu antigen tests that can distinguish between influenza A and B virus types, 93 percent were influenza A, and 7 percent were influenza B.
- There are 21 positive PCR flu tests this week from private labs: 19 tested positive for influenza A, 2 tested positive for influenza B. At the ADH lab, 1 tested positive for influenza A subtype H1N1, and 1 tested positive for influenza A subtype H3N2, and no samples tested negative for influenza this week.
- About 1.6 percent of patients visiting emergency rooms this week were there for ILI. About 2.2 percent of outpatient visits were for ILI.
- The average school absenteeism rate last week was 5.6 percent among public schools. As of 04/16/2019, ADH is aware that 28 schools closed briefly due to the flu this season.
- To date, 106 influenza-related deaths have been reported in Arkansas this flu season, including two pediatric deaths; 71% of the adults were unvaccinated or had an unknown vaccine history. CDC has reported a total of 86 pediatric deaths nationwide this season.
- Since September 30, 2018, 12 nursing homes in Arkansas have reported influenza outbreaks.
- The proportion of deaths reported to the National Center for Health Statistics attributed to pneumonia and influenza (P&I) was below the system-specific epidemic threshold.
- For Week 14, the geographic spread of influenza was reported as widespread in 20 states; Puerto Rico and 25 states reported regional activities; the District of Columbia and 5 states reported local activities; the U.S. Virgin Islands reported sporadic activities; Guam did not report.
- You can report flu year-round and view the weekly influenza report during the influenza season at: [http://www.healthy.arkansas.gov/programs-services/topics/influenza](http://www.healthy.arkansas.gov/programs-services/topics/influenza).
- You can also access the reporting website directly at: [https://FluReport.ADH.Arkansas.gov](https://FluReport.ADH.Arkansas.gov)

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 15
- Deaths from all causes: 655
- Deaths due to Pneumonia: 44
- PCR confirmed Flu Deaths: 1
- Death Certificate or Flu Antigen only: 5

Cumulative Flu Deaths since 09/30/2018
- PCR confirmed Flu deaths: 20
- Death Certificate or Antigen only: 86
- Cumulative Flu deaths: 106

ER Visits
- Week Ending: 04/13/2019
  - Weighted Average: 1.6%
  - Total Visits: 22,180
  - Visits with ILI: 363
- Previous Week
  - Weighted Average: 2.1%
  - Total Visits: 21,615
  - Visits with ILI: 455

Total Flu-Related Hospital Admissions
- PCR Confirmed:
  - Cumulative: 561
  - Week ending 04/13/2019: 5
- Antigen Positive:
  - Cumulative: 998
  - Week ending 04/13/2019: 4

Weekly Arkansas ILI Intensity Level Reported by Sentinel Providers

PCR Lab Confirmed Influenza Cases
- Total Cases since 09/30/2018: 3,930
- Week ending 04/13/2019: 23

<table>
<thead>
<tr>
<th>PCR Tests</th>
<th>ADH Lab Week 15</th>
<th>Other Labs Week 15</th>
<th>Cumulative Cases Since 09/30/2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>0</td>
<td>19</td>
<td>3,581</td>
</tr>
<tr>
<td>B+</td>
<td>0</td>
<td>2</td>
<td>151</td>
</tr>
<tr>
<td>B/Victoria</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>B/Yamagata</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>H1N1+</td>
<td>1</td>
<td>0</td>
<td>96</td>
</tr>
<tr>
<td>H3+</td>
<td>1</td>
<td>0</td>
<td>82</td>
</tr>
<tr>
<td>Unsubtypeable</td>
<td>0</td>
<td>0</td>
<td>18</td>
</tr>
<tr>
<td>Total</td>
<td>2</td>
<td>21</td>
<td>3,930</td>
</tr>
<tr>
<td>Negative</td>
<td>0</td>
<td>--</td>
<td>--</td>
</tr>
</tbody>
</table>

PCR Confirmed Influenza Cases since 09/30/2018

<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>817</td>
<td>60</td>
<td>1</td>
</tr>
<tr>
<td>5-18 yr.</td>
<td>1531</td>
<td>31</td>
<td>0</td>
</tr>
<tr>
<td>19-24 yr.</td>
<td>94</td>
<td>7</td>
<td>0</td>
</tr>
<tr>
<td>25-44 yr.</td>
<td>413</td>
<td>35</td>
<td>3</td>
</tr>
<tr>
<td>45-64 yr.</td>
<td>553</td>
<td>169</td>
<td>8</td>
</tr>
<tr>
<td>&gt;=65 yr.</td>
<td>500</td>
<td>259</td>
<td>8</td>
</tr>
<tr>
<td>Unknown</td>
<td>22</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>3,930</td>
<td>561</td>
<td>20</td>
</tr>
</tbody>
</table>

School Absenteeism*
- Week Ending: 04/13/2019
  - Percent Absent: 5.58
  - Previous Week: 6.29
- Average daily absenteeism for all public schools during this reporting week.

Geographic ILI Activity Level Reported for Week 15:
Weekly School Absenteeism Rates, Arkansas Public Schools

Week, Month of Report

- Off Season Baseline
- 2017-18
- 2018-19
- Average 2013-18

School Absenteeism Rate per County, Arkansas 2018-2019
Percent Absent for Week Ending 4/13/2019

Data: April 10, 2019
Source: Arkansas Department of Health
Author: Haynie Bell, Epidemiologist
Influenza Mortality by Age Group, Arkansas 2000-2019 (Provisional)
Report Updated: 04/16/2019

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<th>25-44 Yrs</th>
<th>45-64 Yrs</th>
<th>65+ Yrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-2019</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>32</td>
<td>67</td>
</tr>
</tbody>
</table>

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

Week, Month of Report

|        Oct        |      Nov       |      Dec       |
|       Jan      |          Feb     |        Mar       |         Apr       |       May       |          Jun      |     Jul       |        Aug     |    Sep         |
|        Jan      |          Feb     |        Mar       |         Apr       |       May       |          Jun      |     Jul       |        Aug     |    Sep         |

Weekly Influenza Claims Paid by Medicaid and BCBS

Influenza Claims Paid by Medicaid and BCBS of Arkansas

Week, Month of Report

|        Oct        |      Nov       |      Dec       |
|       Jan      |          Feb     |        Mar       |         Apr       |       May       |          Jun      |     Jul       |        Aug     |    Sep         |
|        Oct      |          Nov     |            Dec   |            Jan    |          Feb     |           Mar     |         Apr     |         May    |       Jun       |       Jul       |          Aug     |        Sep     |
Influenza Positive Tests Reported to CDC and ILI Activity, by HHS Region, 2018-2019 Season, Week Ending April 6, 2019

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

Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists

Week ending April 6, 2019 - Week 14

Arkansas Flu Activity Level Reported for Week 15: Local
Influenza Positive Tests Reported to CDC by U.S. Public Health Laboratories, National Summary, 2018-19 Season

Pneumonia and Influenza Mortality from the National Center for Health Statistics Mortality Surveillance System Data through the week ending March 30, 2018, as of April 11, 2019