

Influenza Surveillance Report for Summit County, 2009-2010
Report #10: Surveillance Week November 22 to November 28
Centers for Disease Control and Prevention (CDC) Week 47

Influenza Activity in Summit County

- Influenza activity declined again this week in Summit County.
- The EpiCenter average for adult emergency room visits for respiratory and constitutional complaints declined going from 23.20% last period to 20.87% this period.
- The number of people diagnosed with influenza-like illness (ILI) continued to decrease. Last period there were 192 diagnoses compared to 120 for this period.
- The number of adult hospitalizations for influenza decreased from 18 last period to 14 this period.
- The number of lab tests being performed decreased. This period 58 tests were administered and 5 (8.62%) were positive for influenza A compared to last period when 14 (13.33%) tests were positive for influenza A out of the 105 tests administered.
- The number of absences reported by schools increased slightly as additional schools reported.
- The number of prescriptions of oseltamivir and zanamivir decreased from 116 the previous period to 9 this reporting period for those sites reporting.
- The number of pneumonia-related deaths decreased from 11 last period to 5 this period.
- No influenza deaths were reported.
- Local health departments continue administering vaccine to those in the CDC identified target groups. For a listing of local H1N1 vaccine clinics, go to www.summitflu.org.

Influenza Activity in Ohio (Source: Ohio Department of Health)

- Ohio's influenza activity continues to be **widespread**. This refers to the geographic spread and not the severity of illness.
- Out of the 2,350 specimens tested at the ODH lab during this season, only 2 (0.09%) specimens have been positive for seasonal influenza; one was A (H1) and the other was A (H3). Out of the 2,350 specimens tested, 1,125 (47.87%) have tested positive for 2009 pandemic A (H1N1).
- For the 2009-2010 season, there have been 2,860 influenza-associated hospitalizations and 1,317 were laboratory confirmed 2009 pandemic A (H1N1).
- There have been 7 confirmed influenza-associated pediatric mortality reports for the 2009-2010 season of which 3 had confirmed 2009 pandemic A (H1N1).
- Year-to-date there have been 40 confirmed 2009 pandemic A (H1N1) influenza-related deaths.

Influenza Activity in U.S. (Source: Centers for Disease Control and Prevention)

- Twenty-five states reported **widespread** activity (which is a decline of 7 from previous week); 17 states had **regional** activity; District of Columbia, Puerto Rico and 6 states reported **local** activity; and 2 states, Guam and the U.S. Virgin Islands reported **sporadic** activity.
- Influenza activity continued to decrease.
- Seventeen influenza-associated pediatric deaths were reported during the week. These deaths occurred between September 13 and November 21, 2009. The 2009 pandemic A (H1N1) virus infection was associated with 12 of the deaths and 5 were associated with influenza A virus for which the subtype was unknown. Since April 26, 2009, the CDC reports there has been a total of 210 deaths in children associated with the 2009 pandemic A (H1N1).
- The proportion of deaths attributed to influenza and pneumonia was above the epidemic threshold as reported to the 122-Cities Mortality Reporting System for the ninth week. (7.2% compared to the national threshold of 7.1%)
- Since August 30, there have been 31,320 laboratory-confirmed influenza associated hospitalizations and 1,366 laboratory-confirmed deaths.

- For outpatient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet), 3.7% were due to influenza-like illness compared to the national baseline of 2.3 %.
- Eight out of the 10 regions reported the proportion of outpatient visits for ILI were above their region-specific baseline levels.
- 6,224 specimens were tested and 956 (15.4%) were positive and 5,268 (84.6%) were negative for influenza. Of the positive specimens, 950 (99.4%) were influenza A and 6 (0.6%) were influenza B.
- Out of the influenza A positives, 708 (74.5%) were 2009 pandemic A (H1N1); 233 (24.5 %) subtyping was not preformed; 8 (0.8%) were unable to be subtyped; and 1 was A (H3) (0.1%).
- Seasonal A(H3N2) and influenza B co-circulated at low levels with 2009 pandemic A (H1N1).
- The majority of 2009 A (H1N1) viruses are susceptible to neuraminidase inhibitor antiviral medication oseltamivir but rare sporadic cases of oseltamivir resistant 2009 influenza A (H1N1) have been detected. All viruses tested remained sensitive to zanamivir.
- For additional information go to <http://www.cdc.gov/h1n1flu/updates/us/>

Influenza Activity Worldwide (Source: World Health Organization- WHO)

- There have been 8,768 deaths reported. A case count was not provided by WHO for this week.
- In the temperate regions of the northern hemisphere, the early arriving winter influenza season continues to be intense across parts of the North America and much of Europe. However, there are indications that in North America, Caribbean Islands and parts of Europe that disease activity may have peaked.
- In Canada, influenza activity remains similar to the previous week but the number of hospitalizations and deaths is increasing.
- In Europe, over 99% of subtyped influenza A viruses were 2009 pandemic A (H1N1).
- In East Asia, influenza activity remains active again this period.
- ILI activity in India, Nepal and Sri Lanka has increased.
- Most countries in the tropical region of Central and South America continue to report declining influenza activity except Ecuador and Venezuela.
- Little pandemic influenza activity has been reported in the temperate region of the southern hemisphere.
- For additional information go to: <http://www.who.int/csr/disease/swineflu/en/index.html>

Participants in Summit County Influenza Surveillance

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|---|---|-----------------|
| 17 medical providers | 1 university health service | 13 laboratories |
| 1 workshop | 6 nursing homes | EpiCenter |
| 4 pharmacy chains | 3 residential institutions | |
| 5 emergency departments | 3 health departments- vital records offices | |
| 31 private/public/charter schools and 7 districts (121 schools buildings) | | |

Number of influenza or influenza-like diagnoses by medical practitioners, emergency departments, university infirmary, nursing homes, and institutions
 Total number of absentees (diagnosis not specified) for selected schools and workshop
 Number of positive influenza cultures and antigen tests from area labs
 Total number of four influenza antiviral medications sold in pharmacy chains
 Number of pneumonia/influenza deaths reported to CDC by the Akron Health Department, Barberton Health Department and Summit County Health District
 Number of confirmed influenza hospitalizations at Summit County hospitals
 The percent of respiratory & constitutional visits per week from two hospitals that electronically report ED visits which are categorized into respiratory or constitutional syndrome based on chief complaint.

This report was created by the Akron Health Department's Office of Epidemiology, on December 7, 2009. For questions, please contact Courtney Hudson at 330.375.2988 ext. 3122 or Michelle Papp at 330.375.2988 ext. 6717. Reporting from participants may not be complete each week. Numbers may change as updated reports are received.

