

Influenza Surveillance Report for Summit County, 2009-2010
Report #8: Surveillance Week November 8 to November 14
Centers for Disease Control and Prevention (CDC) Week 45

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 29.69% last period to 25.74% this period.
- The number of people diagnosed with influenza-like illness (ILI) continued to decrease. Last period there were 426 compared to 278 for this period.
- The number of adult hospitalizations for influenza decreased from 44 last period to 32 this period.
- The number of lab tests being performed decreased. This period 154 tests were administered and 16 (10.4%) were positive for influenza A compared to last period when 46 (25.0%) tests were positive for influenza A out of the 184 tests administered.
- The number of absences reported by schools continued to decrease.
- The number of prescriptions of oseltamivir and zanamivir decreased from 250 the previous period to 184 this reporting period.
- The number of pneumonia-related deaths increased to 21 this period compared to 9 last period.
- One influenza death was reported.
- Local health departments have begun administering vaccine for 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 1,901 specimens tested at the ODH lab during this season, only 2 specimens have been positive for seasonal influenza; one was A (H1) and the other one was A (H3). Out of the 1,901 specimens tested, 971 have tested positive for 2009 pandemic A (H1N1).
- For the 2009-2010 season, there have been 2,450 influenza-associated hospitalizations and 1,106 were laboratory confirmed 2009 pandemic A (H1N1).
- There have been 6 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 30 confirmed 2009 pandemic A (H1N1) influenza-related deaths.

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

- 43 states reported **widespread** activity; 7 states and Puerto Rico had **regional** activity; District of Columbia had **local** activity; and Guam and the U.S. Virgin Islands reported **sporadic** activity.
- Influenza activity decreased slightly.
- Twenty-one influenza-associated pediatric deaths were reported during the week. These deaths occurred between September 20 and November 14, 2009. The 2009 pandemic A (H1N1) virus infection was associated with 15 of the deaths and 6 were associated with influenza A virus for which the subtype was not determined. Since April 26, 2009, the CDC reports there has been a total of 171 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 seventh week. (7.5% compared to the national threshold of 6.9%)
- Since August 30, there have been 26,315 laboratory-confirmed influenza associated hospitalizations and 1,049 laboratory-confirmed deaths.

- 5.5 % of outpatient visits reported through the U.S. Outpatient Influenza-like Illness Surveillance Network (ILINet) were due to influenza-like illness compared to the national baseline of 2.3 %.
- All 10 regions reported the proportion of outpatient visits for ILI were above their region-specific baseline levels. The percentage ranged from 2.6% to 7.9% and it decreased in all 10 regions from the previous week.
- 10,803 specimens were tested and 3,106 (28.8%) were positive and 7,697 (71.2%) were negative for influenza. Of the positive specimens, 3,103 (99.9%) were influenza A.
- Out of the influenza A positives, 2,468 (79.5%) were 2009 pandemic A (H1N1); 624 (20.1%) subtyping was not performed; 10 (0.3%) were unable to be subtyped; 1 was A (H1) (0.1%) and 3 were influenza B (0.1%).
- Seasonal A(H1N1) 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)

- Over 525,000 laboratory confirmed cases of 2009 pandemic A (H1N1) and 6,770 deaths have been reported.
- In Canada, influenza activity continued to intensify without a clear peak in activity. The rate of ILI was highest among children ages 5 to 19 and continued to significantly exceed mean rates observed over the past 12 influenza seasons.
- In Europe, the spread of 2009 pandemic A (H1N1) remains active and geographically widespread. It appears that disease activity may have peaked in some countries in Western Europe.
- In East Asia, influenza activity remains active. In China and South East Asia, a small number of seasonal (H3N2) and (H1N1) influenza viruses were detected. Although the portion is declining in relation to the proportion of 2009 pandemic A (H1N1).
- Active, predominantly pandemic A (H1N1) influenza transmission persists in the Caribbean region but some countries in this region are reporting declining rates of acute respiratory infections.
- Most countries in the tropical region of Central and South America continue to report declining influenza activity.
- For additional information go to: <http://www.who.int/csr/disease/swineflu/en/index.html>

Participants in Summit County Influenza Surveillance

| | | |
|---|---|-----------------|
| 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

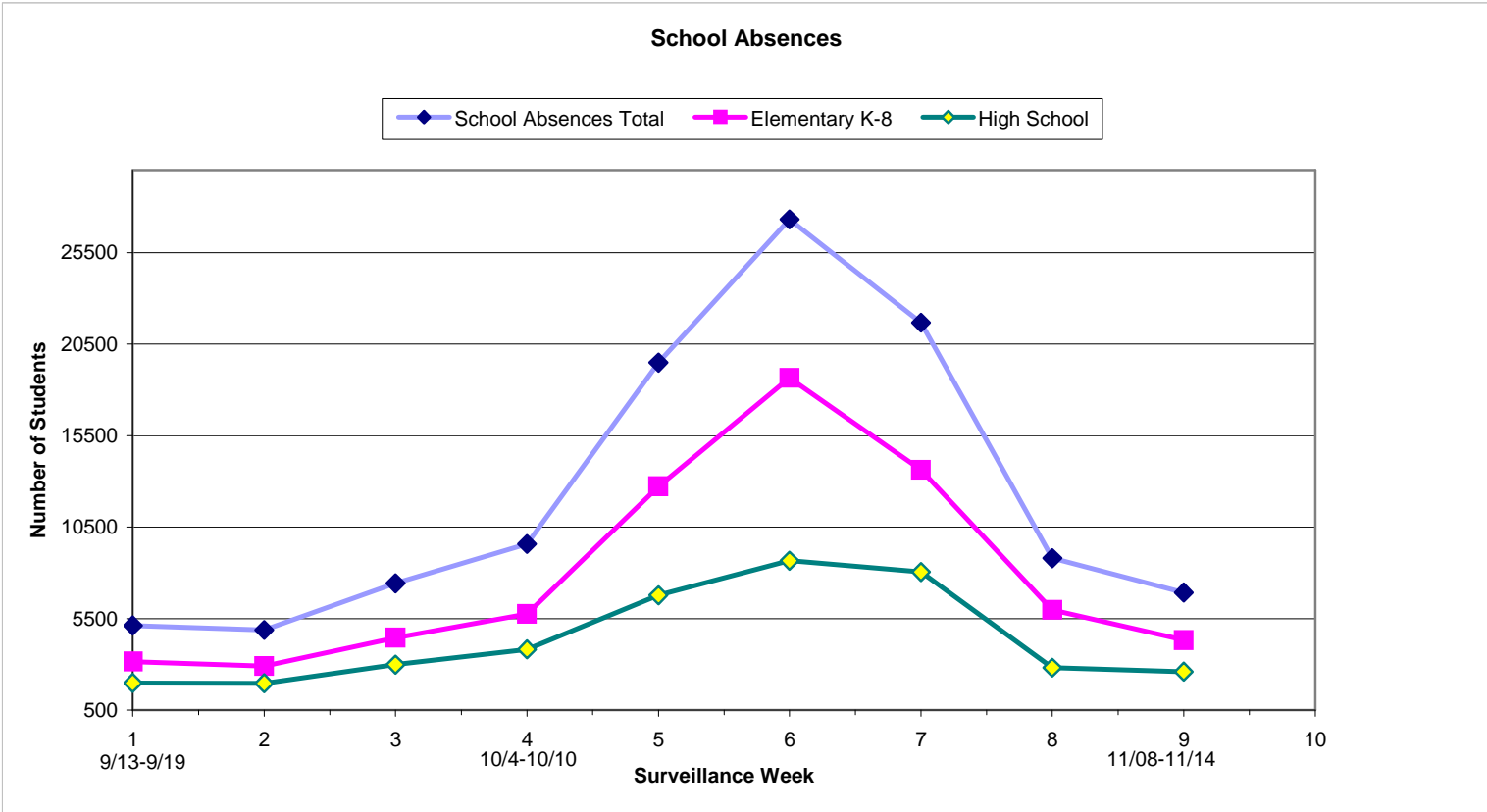
Total number of four influenza antiviral medications sold in pharmacy chains

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 November 23, 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.



Summit County Influenza Surveillance 2009-2010

◆ Labs
 ■ Hospitalizations
 ▲ Pharmacy Prescriptions
 ✕ Health Depts P & I
 ✱ Clinical Diagnoses
 ● % ED visits with resp/const CC

