

Influenza Surveillance Report for Summit County, 2009-2010
Report #5: Surveillance Week October 18 to October 24
Centers for Disease Control and Prevention (CDC) Week 42

Influenza Activity in Summit County

- Influenza activity continued to increase in Summit County.
- However, the EpiCenter average for adult emergency room visits for respiratory and constitutional complaints decreased from 34.28% to 27.71% this period.
- There continued to be an increase in the number of people diagnosed with influenza-like illness (ILI). This week there were 478 diagnosed up from 320 the previous week.
- The number of hospitalizations for influenza continued to increase from 51 last week to 74 this period.
- The number of lab tests being performed increased slightly. This period 300 tests were administered and 97 were positive for influenza A compared to last period when 108 tests were positive for influenza A out of the 296 tests administered.
- There number of absences reported by schools increased to almost 26,700 for the week.
- The number of prescriptions of oseltamivir and zanamivir greatly increased from 284 the previous week to 344 this reporting period.
- The number of pneumonia-related deaths increased from 4 to 12 this period.
- Local health departments have begun administering vaccine for those in the CDC identified target groups. There is a localized shortage of seasonal flu vaccine.

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.
- Emergency department visits experienced a statistically significant deviation from the expected in 7 regions.
- Over-the-counter sales experienced a statistically significant deviation from the expected in 6 regions.
- For the 2009-2010 season, there have been 1,010 influenza-associated hospitalizations and 401 were laboratory confirmed 2009 pandemic A (H1N1).
- Year-to-date there have been 15 confirmed pandemic A (H1N1) 2009 influenza-related deaths. This includes 3 pediatric deaths.

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

- 48 states reported **widespread** activity; 2 states and Guam had **regional** activity; and District of Columbia and Puerto Rico had **local** activity.
- All regions reported elevated levels of out-patients reporting ILI.
- There were 22 influenza-associated pediatric deaths of which 19 were associated with 2009 pandemic A (H1N1) virus infection and 3 were associated with influenza A virus for which the subtype was not undetermined.
- The CDC reports there has been a total of 114 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. (7.1% compared to the national threshold of 6.6%)
- Since August 30, there have been 12,466 laboratory-confirmed influenza associated hospitalizations and 530 laboratory-confirmed deaths.
- During the same time, there have been 25,985 pneumonia and influenza syndrome-based hospitalizations and 2,916 pneumonia and influenza syndrome-based deaths.

- 8.0 % 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.
- 19,642 specimens were tested and 8,268 (42.1%) were positive for influenza. Of the positive specimens, 8,247 (99.7%) were Influenza A. Out the Influenza A positives, 5,453 (66.1%) were 2009 pandemic A (H1N1).
- Influenza B virus continued to co-circulate 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)

- As of October 25th, there have been over 440,000 laboratory confirmed cases of 2009 pandemic A (H1N1) and 5,700 deaths.
- In temperate zone of the northern hemisphere, influenza continues to intensify marking an early start to winter influenza season in some countries.
- Mexico reported more confirmed cases since September than during the springtime epidemic.
- Parts of Western Canada continued to report high rates of ILI and cases of 2009 pandemic A (H1N1).
- Some countries in Europe, Western and Central Asia have reported evidence of early influenza transmission.
- Little influenza activity was reported in 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

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, institutions

Total number of absentees (diagnosis not specified) for selected elementary, middle, high schools and workshop

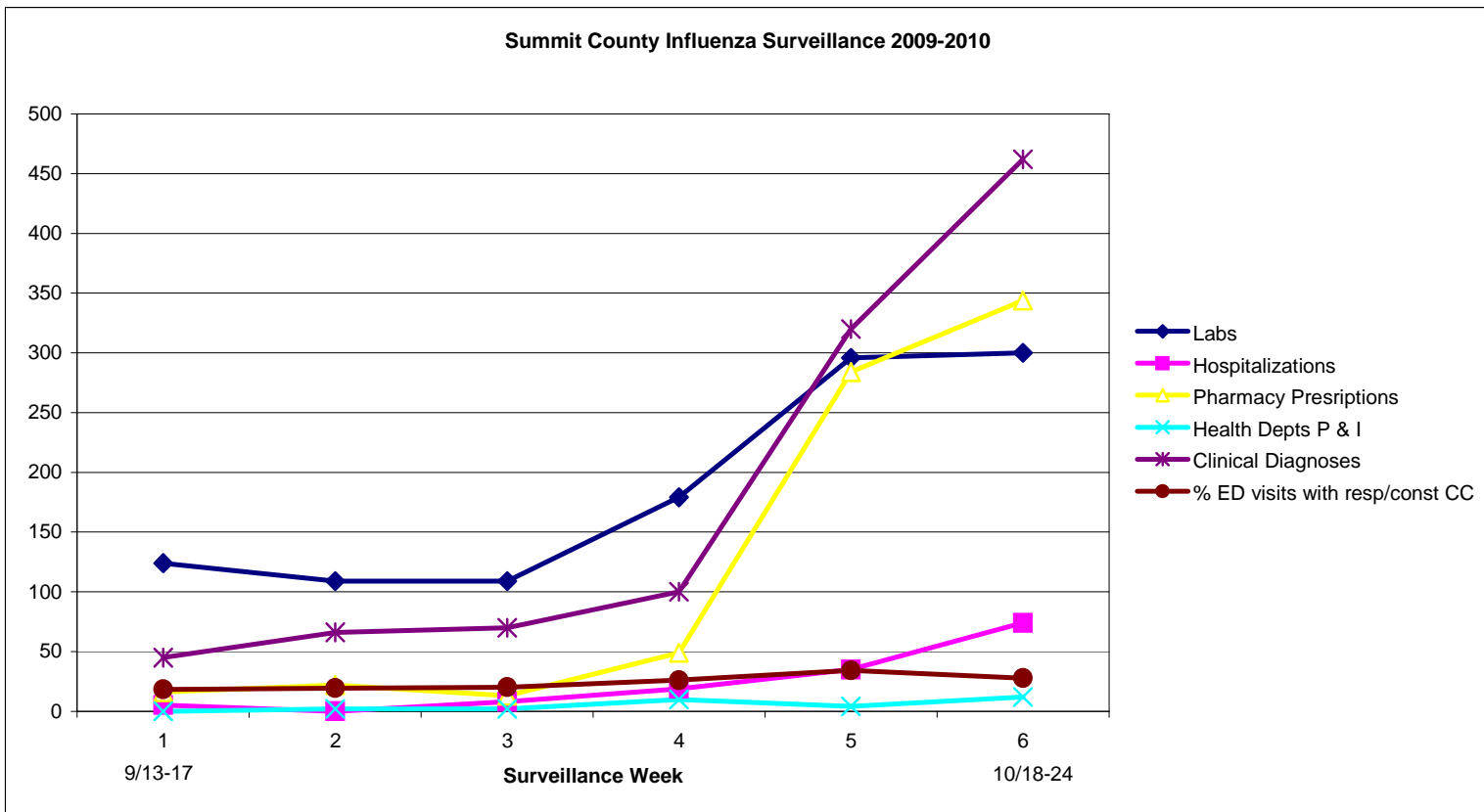
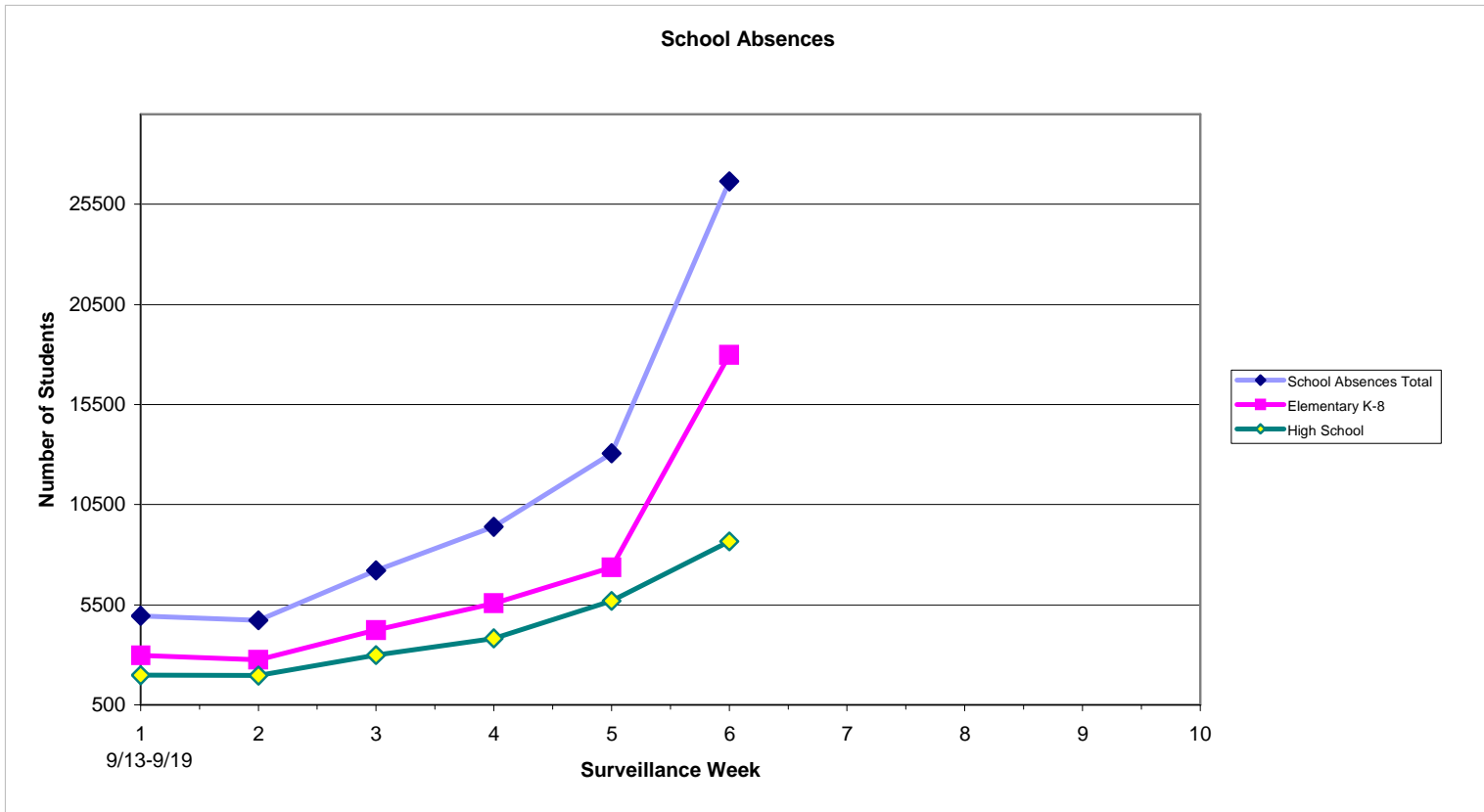
Number of positive influenza cultures and antigen tests from area labs

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 2, 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.
 For information about influenza resources in Summit County, go to www.summitflu.org.