



Public Health Division Influenza Report

2009-2010 Weekly Influenza Surveillance Report

Updated: Monday, November 23, 2009

Weekly updates will resume on Monday, November 30, 2009



Weekly Snapshot

A total of 430 hospitalized persons or persons in intensive care units (ICU) with laboratory-confirmed H1N1 were reported from week 17 (ending 5/2/09) to week 46 (ending 11/21/09) in Sacramento County. During week 46 an additional 41 hospitalized persons or persons in intensive care units were reported. This represents a 10.5% increase in the number of hospitalizations and persons in ICU. As of November 21, 2009 the majority of laboratory confirmed H1N1 hospitalized persons or persons in intensive care units were between the ages of 25 to 49 years (31.6%), followed by persons ages 5 to 24 years (25.6%). A total of 71.7% (nearly 3 out of 4) H1N1 hospitalized persons or persons in intensive care units were less than 50 years of age. As of November 21, 2009 nineteen Sacramento County residents with H1N1 influenza have died. Of the nineteen H1N1 deaths 4 were not hospitalized. During week 46, no H1N1 deaths were reported.

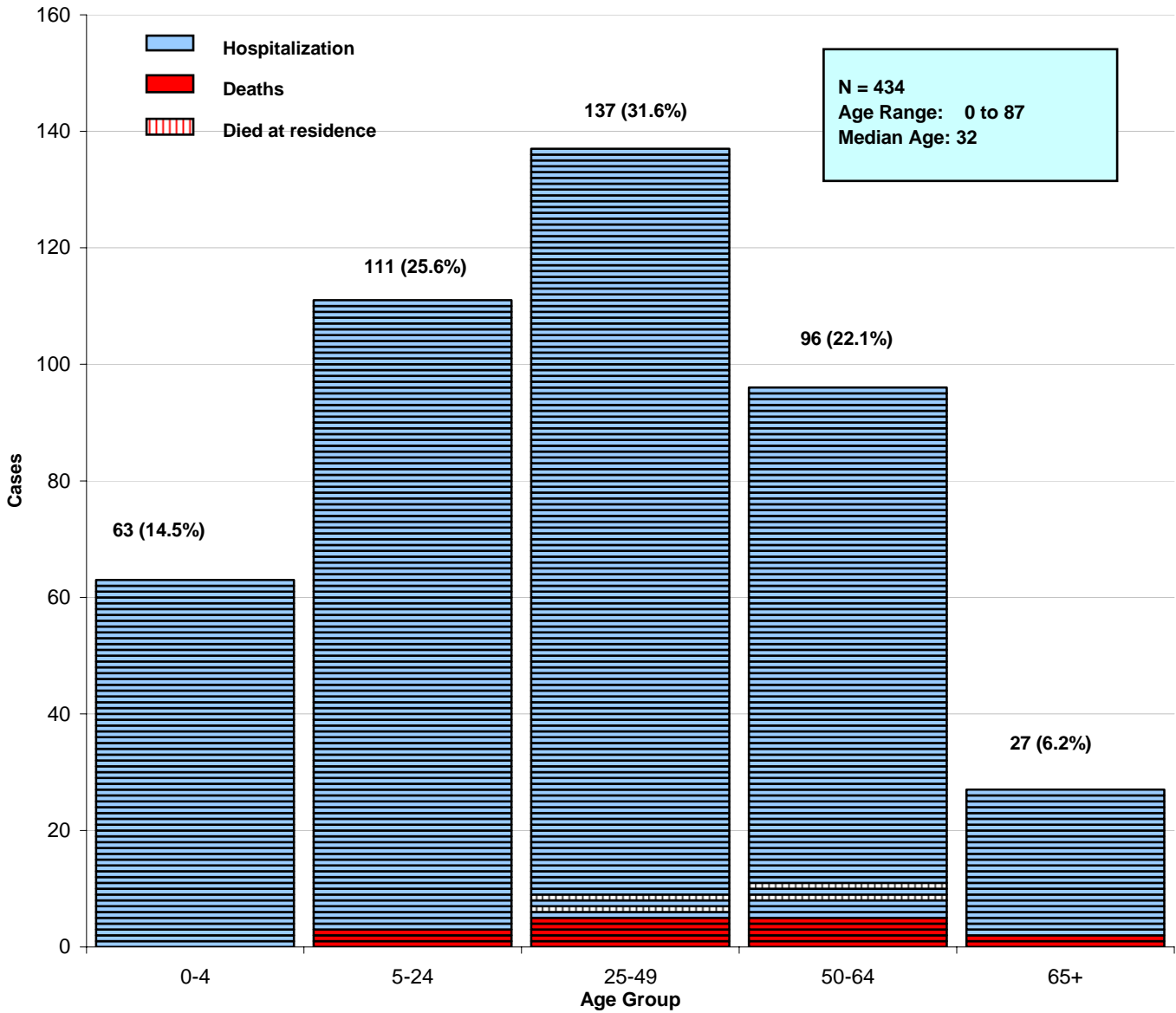
Human Cases of H1N1 Influenza

Updated November 23, 2009

H1N1	Confirmed
Total H1N1 Cases	434
Hospitalizations	430
Non-Hospitalized Deaths	4
Hospitalized Deaths	15

H1N1 Hospitalizations by Age Group, Sacramento County

Updated November 23, 2009



Weekly School Absenteeism Reporting Results:

In Sacramento County 100% of the school districts report weekly to the Public Health Division excused absences at the school and district level. Epidemiology services staff calculate the median and range for each school weekly. Schools are asked to report daily if their absenteeism rate exceeds 10% on any given day, to date; schools have reported exceeding 10% absenteeism 60 times and on 20 occasions schools have reported exceeding greater than 20% absenteeism. The highest school absenteeism rate reported during week 46 was 21.7%. Schools are also asked to report influenza like symptoms including fever, cough and muscle ache.

Average Daily Absenteeism* for Schools with Enrollments of >= 100 Students

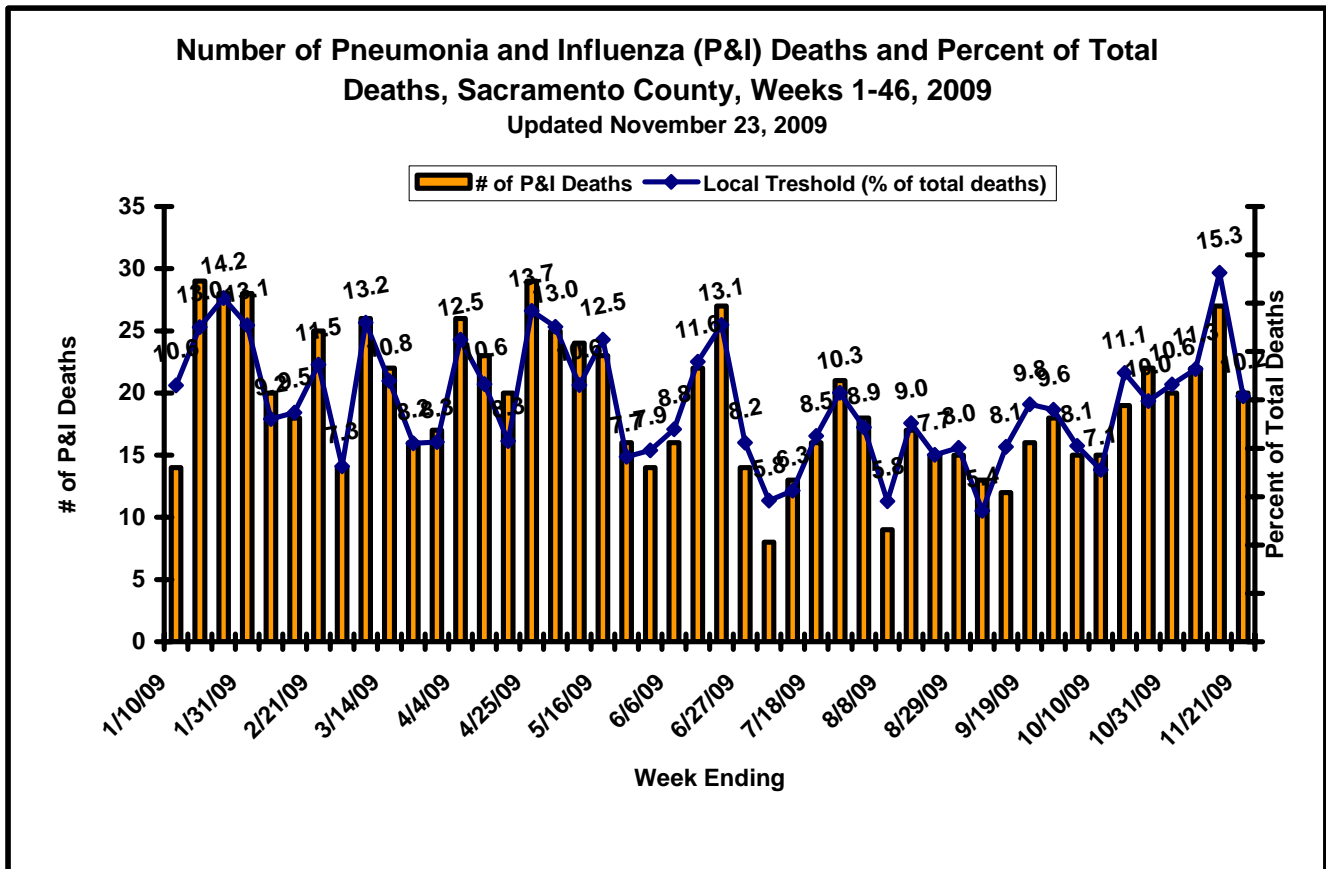
Updated November 23, 2009

Median	Range	No. of Schools Reporting >10% Absenteeism	No. Schools Reporting	Week Ending
2.0%	0.1%-9.0%	N/A	131	9/12/2009
1.6%	0.2%-5.8%	0	100	9/19/2009
1.8%	0.0% - 9.5%	0	125	9/26/2009
1.8%	0.0% - 6.1%	0	119	10/03/2009
2.6%	0.0% - 12.2%	2	157	10/10/2009
2.9%	0.3% - 14.6%	4	207	10/17/2009
2.9%	0.5%-36.2%	13	161	10/24/2009
2.5%	0.4%-37.0%	11	197	10/31/2009
2.7%	0.3%-40.9%	13	184	11/07/2009
2.5%	0.4% - 41.5%	14	203	11/14/2009
2.5%	0.6% - 21.7%	3	131	11/21/2009

*A school can file a waiver to recoup the average daily attendance (ADA) loss from an occurrence such as an epidemic (Education Code Section 46392[a] [4]).

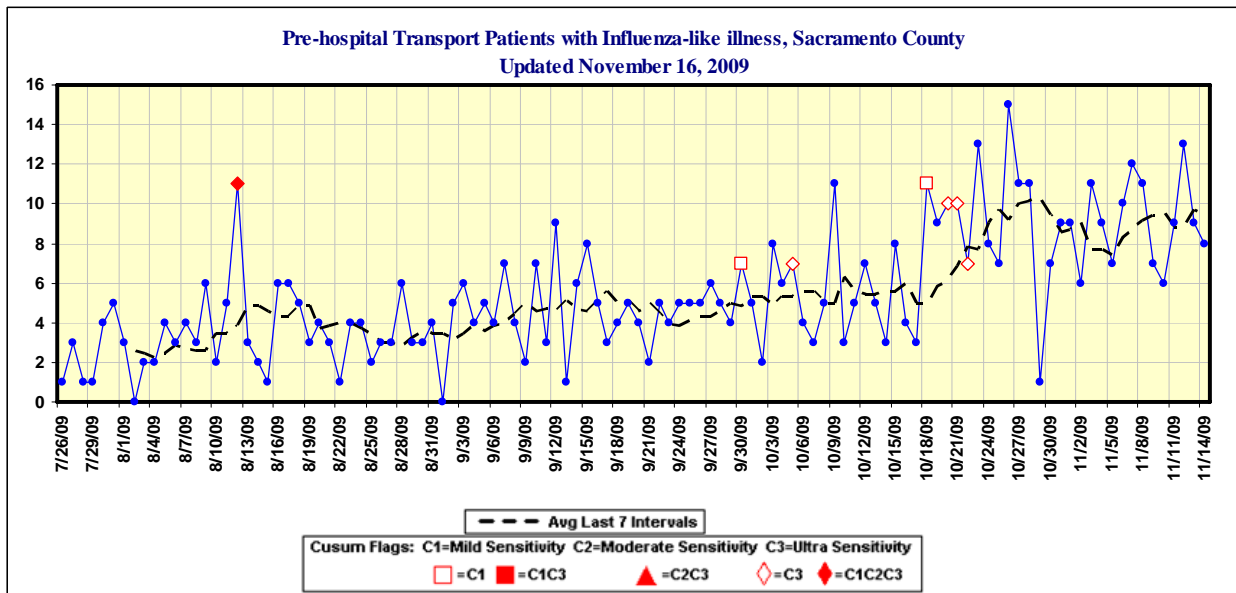
Weekly Pneumonia and Influenza Deaths:

During week 46, 10.2% of all deaths were attributed to pneumonia or influenza. At the national level the percent of all deaths attributable to pneumonia and influenza have not been reported yet. During week 45, 15.3% of Sacramento County deaths were attributed to pneumonia or influenza. The national epidemic threshold during week 45 was 7.5% for that week. During the peak of flu season, the national epidemic threshold typically ranges from 7.5 – 8.0%. The average epidemic threshold for the current year in Sacramento County is 9.9%.



Weekly Counts: Pre-hospital Transport Patients with Influenza Like-Illness

The graph below shows the daily counts of pre-hospital transport patients with influenza-like illness from the Sacramento Fire Department and Sacramento Metropolitan Fire Department. Together both agencies account for approximately 90% of all fire calls in Sacramento County. To date we have seen significant increase in influenza like-illness pre-hospital transport of patients during the month of October. We used CuSum statistical methods to indicate recent changes or deviations in data counts by comparing daily counts to a 7-day moving average. From July 26, 2009 to November 14, 2009 CuSum methods detected increases in influenza-like illness activity among pre-hospital transports on 7 days, 5 of which occurred during the month of October. From the graph below using the most sensitive CuSum method a strong statistically significant increase in transportation activity was detected on 8/12/2009 (n=11), 10/5/2009 (n=5), 10/20/2009 (n=10), 10/21/2009 (n=10) and 10/22/09 (n=7). The day with the highest number of pre-hospital patient transports with influenza like illness occurred on 10/26/2009 (n=15).



*Data above generated using the Centers for Disease Control and Prevention Early Aberration Reporting System (EARS).

***Last Updated on November 16, 2009. Influenza Illness pre-hospital transport data was unavailable during the week of November 15 to November 21, 2009.**