



Public Health Division Influenza Report

2009-2010 Weekly Influenza Surveillance Report

Updated: Tuesday, October 19, 2009

Weekly updates will resume on Friday, October 23, 2009



Weekly Snapshot

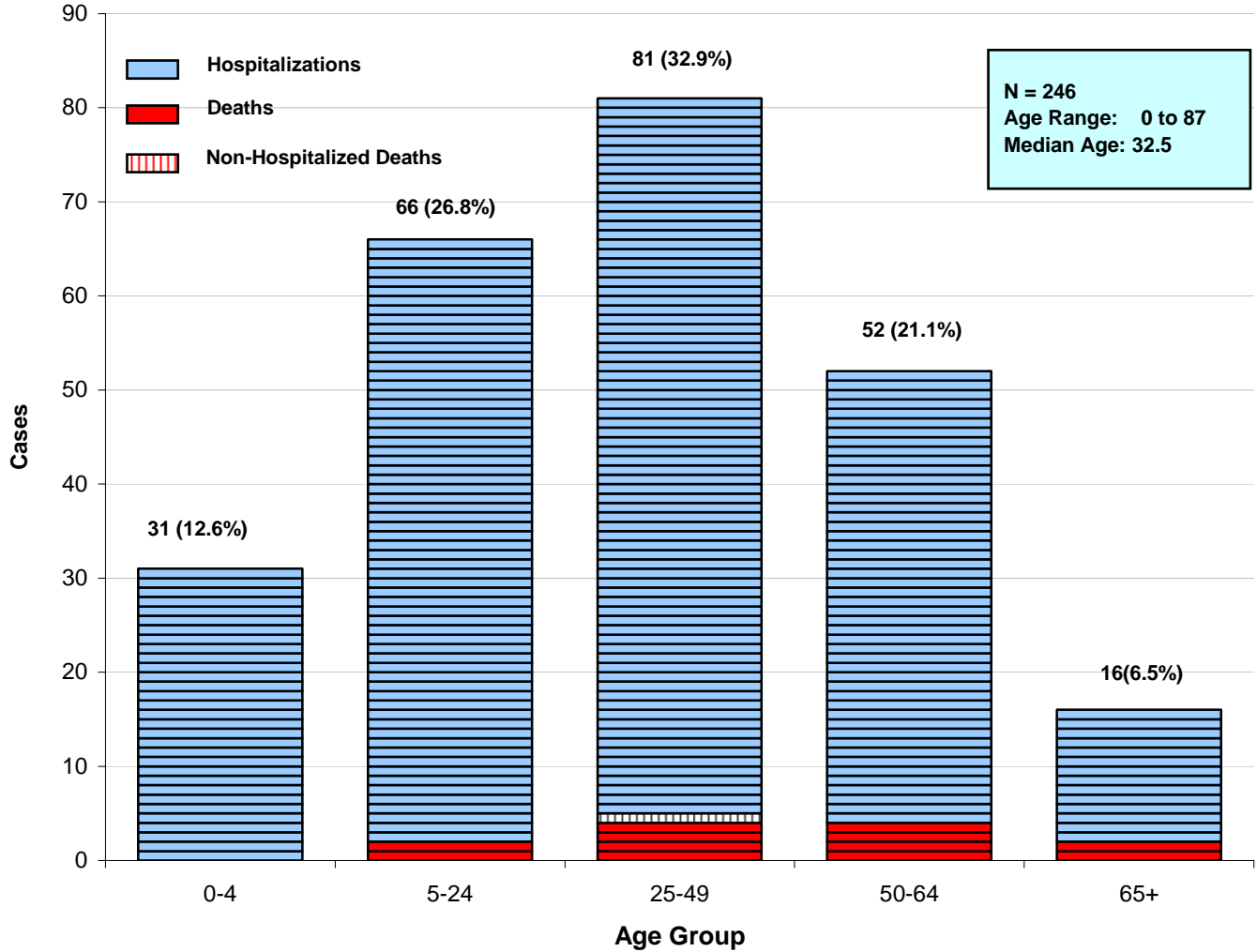
A total of 245 hospitalized persons or persons in intensive care units (ICU) with laboratory-confirmed H1N1 were reported from week 17 (ending 5/2/09) to week 41 (ending 10/17/09) in Sacramento County. During week 41 an additional 43 hospitalized persons or persons in intensive care units were reported. As of October 17, 2009 the majority of laboratory confirmed H1N1 hospitalized persons or persons in intensive care units were between the ages of 25 to 49 years (32.9%), followed by persons ages 5 to 24 years (26.8%). A total of 72.3% (nearly 3 out of 4) H1N1 hospitalized persons or persons in intensive care units were less than 50 years of age. As of October 17, 2009 thirteen Sacramento County residents with H1N1 influenza have died. Of the thirteen cases 1 was not hospitalized.

Human Cases of H1N1 Influenza

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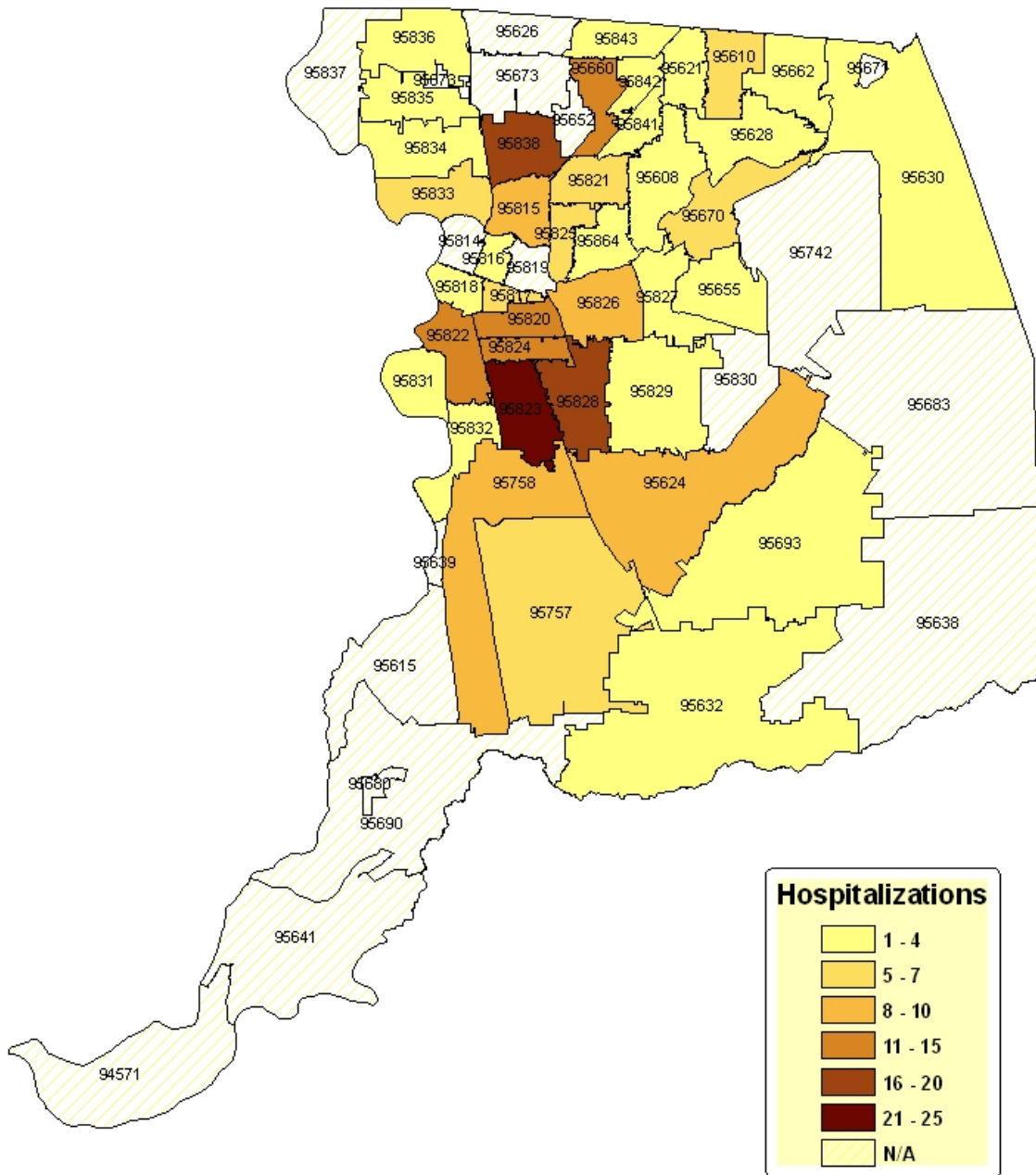
H1N1	Confirmed
Total H1N1 Cases	246
Hospitalizations	245
Non-Hospitalized Deaths	1
Hospitalized Deaths	12

Total H1N1 Hospitalizations and Deaths by Age Group, Sacramento County Updated October 19, 2009



H1N1 Hospitalizations by Zip Code, Sacramento County

Updated October 19, 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; six schools have reported exceeding 10% absenteeism. 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

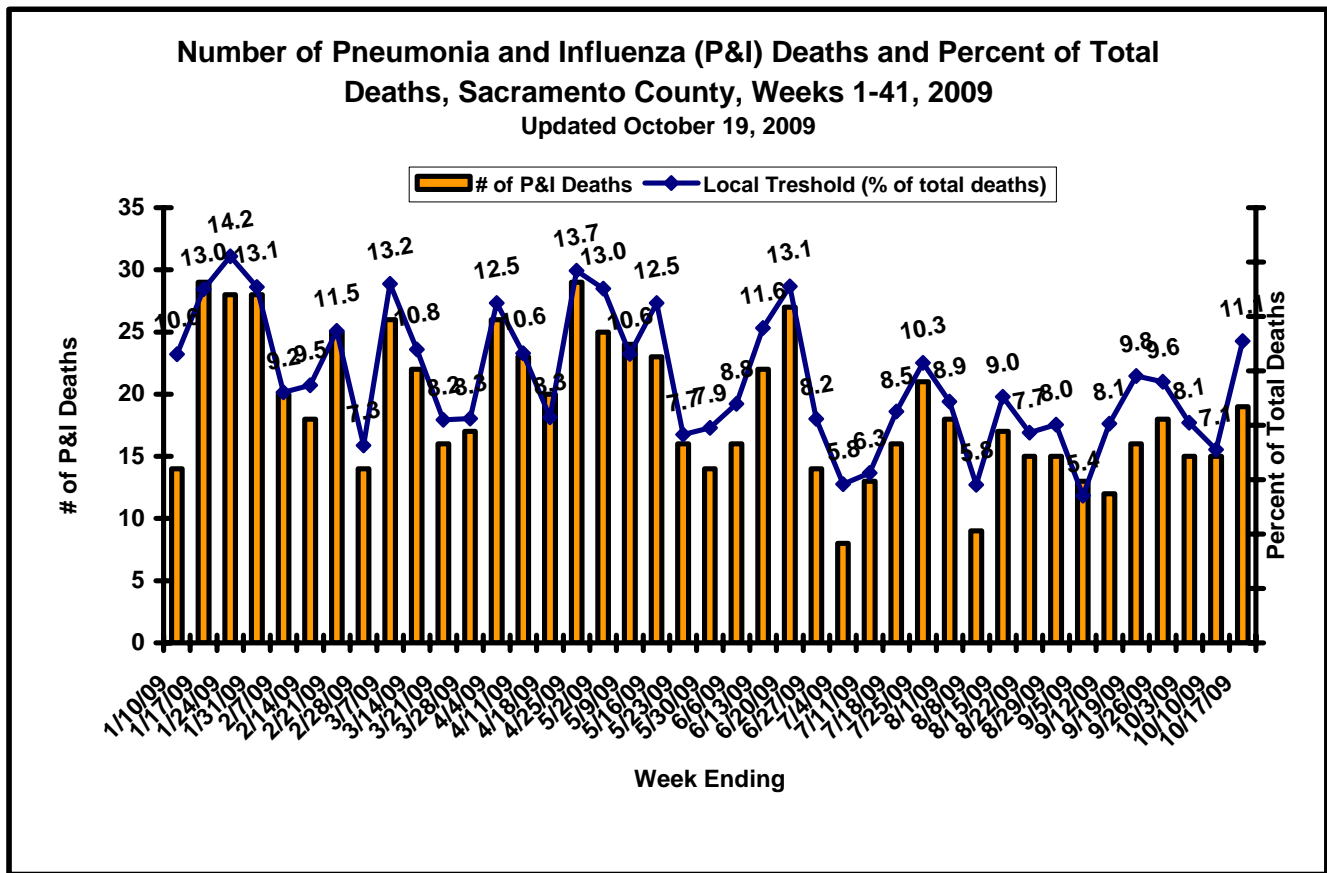
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Median	Range	No. of Schools Reporting >10% Absenteeism	No. Schools Reporting	Week Ending
2.0%	0.1%-9.0%	N/A	131	9/12/2009
1.6%	0.2%-5.8%	0	100	9/19/2009
1.8%	0.0% - 9.5%	0	125	9/26/2009
1.8%	0.0% - 6.1%	0	119	10/3/2009
2.6%	0.0% - 12.2%	2	157	10/10/2009
2.9%	0.3% - 14.6%	4	207	10/17/2009

*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]).

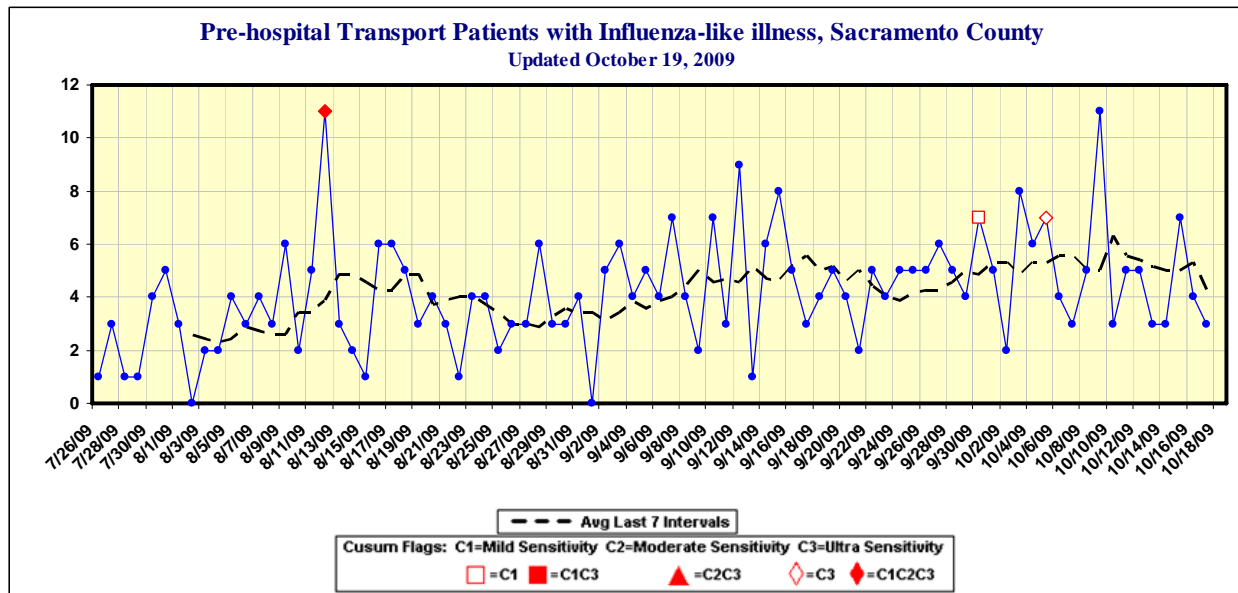
Weekly Pneumonia and Influenza Deaths:

During week 41, 11.1% 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 40, 7.1% of Sacramento County deaths were attributed to pneumonia or influenza. The national epidemic threshold during week 40 was 6.7% 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 9.7%.



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. 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 October 17, 2009 CuSum methods detected increases in influenza-like illness activity among pre-hospital transports on 3 days. From the graph below using the most sensitive CuSum method a strong statistically significant increase was detected on 8/12/2009. On this day the highest number of pre-hospital patient transports with influenza like illness occurred (n=11). Likewise a statistically significant increase in pre-hospital transports with influenza like illness was detected on 10/5/2009 (n=7) whereas a much weaker statistically significant increase was detected on 9/30/2009 (n=7).



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

**ILI Pre-hospital Transport Patient Data for Sacramento Metropolitan Fire Excluded from 10/10/09 to 10/17/09