

# California Influenza Surveillance Project

## Viral and Rickettsial Disease Laboratory

**2008-2009**

### Influenza Update – Week 45 (November 2 – November 8, 2008)

**National Influenza Activity:**

- Nationwide, a low level of influenza activity was reported in the United States.
- Forty (1.7%) specimens tested by U.S. World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NREVSS) collaborating laboratories, and reported to CDC/Influenza Division, were positive for influenza.
- The proportion of deaths attributed to pneumonia and influenza (P&I) was below the epidemic threshold.
- The proportion of outpatient visits for influenza-like illness (ILI) was below national and region-specific baseline levels.
- One state reported local influenza activity; 15 states and Puerto Rico reported sporadic influenza activity; 34 states and the District of Columbia reported no influenza activity.

**California Influenza Activity:**

- Influenza activity, including sentinel provider outpatient influenza-like illnesses and Kaiser Permanente P&I (pneumonia and influenza), remains low throughout California.
- Based on reports of infrequent positive influenza laboratory tests in both Northern and Southern California, influenza activity in California remained **sporadic** (defined by the CDC as “Isolated cases of lab confirmed influenza in the state, but ILI activity is not increased”).
- No new cases of severe pediatric influenza or pediatric influenza-associated fatalities\* were reported this week.

\*Age 0- 17 years; a clinical syndrome consistent with influenza or complications of influenza; confirmation by laboratory testing; and have been hospitalized in the ICU or died (with no period of complete recovery between the illness and death).

**Kaiser Permanente inpatient, sentinel providers’ outpatient influenza-like illnesses, and Kaiser Permanente antiviral data:**

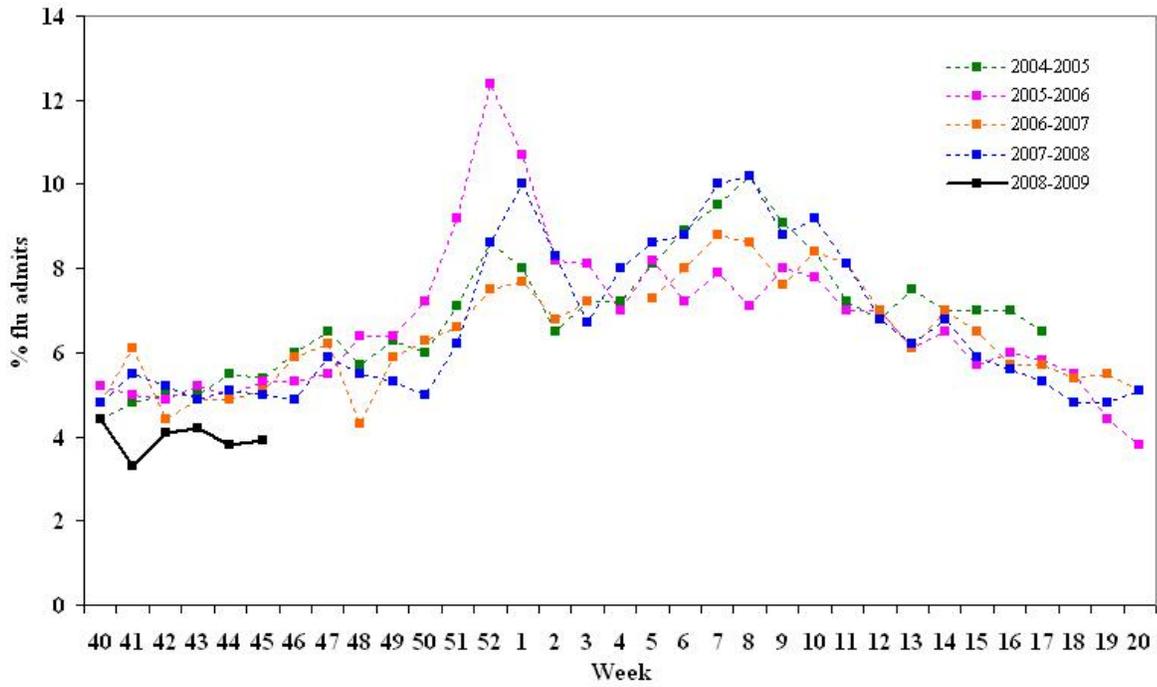
Week	Kaiser Inpatient Data % (range)*		Outpatient ILI Data %(# reported)‡	Kaiser Antiviral Data§	
	Northern CA	Southern CA		Northern CA	Southern CA
<b>45</b>	3.9 (0.0–7.5)	1.7 (0.0–3.4)	0.8 (77 reported)	56	82
<b>Previous week</b>	3.8 (0.0–11.1)	2.0 (0.7–3.4)	0.7 (97 reported)	46	70

\* “Flu admissions” are present year-round. During the off-season, these consist chiefly of pneumonia, which represents approximately 3–5% of all admissions

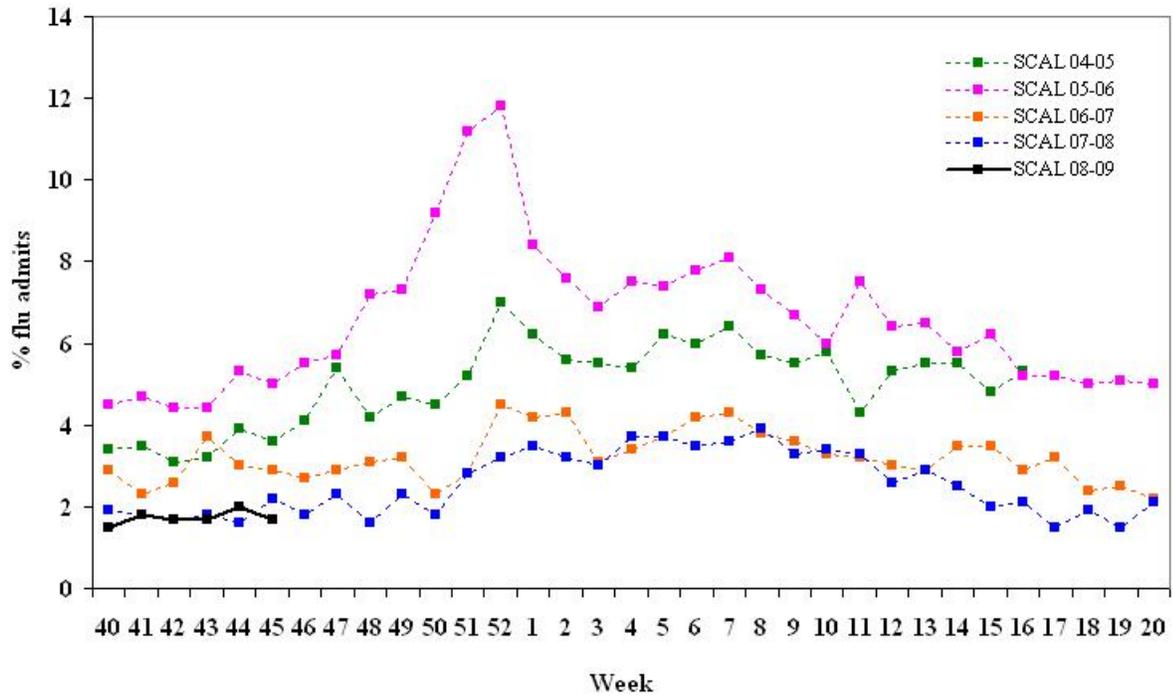
‡ The percentage of outpatient visits for influenza-like illness (ILI) is calculated by dividing the number of ILI visits by the total number of outpatient visits per week

§ The number of prescriptions filled for the antiviral drugs used for influenza (amantadine, rimantadine, zanamivir, and oseltamivir) by Kaiser outpatient pharmacies in California

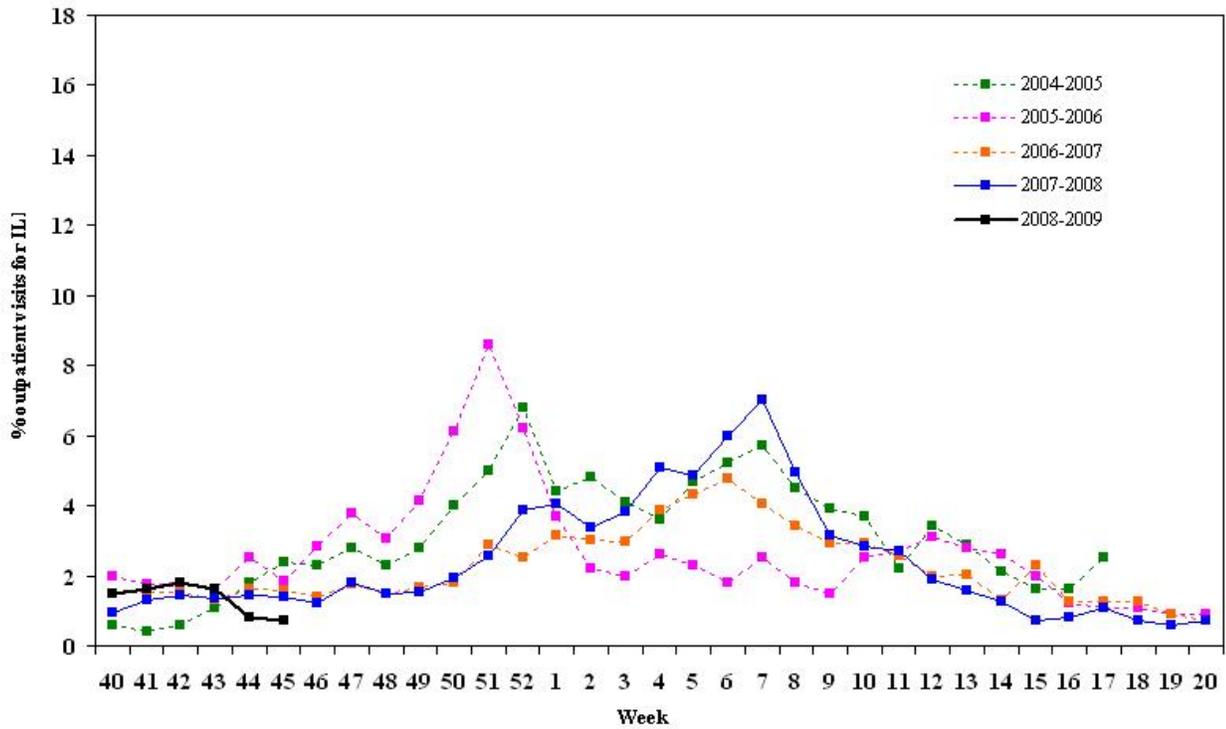
### Inpatient "Flu" Admissions 2004-2009 Northern California Kaiser



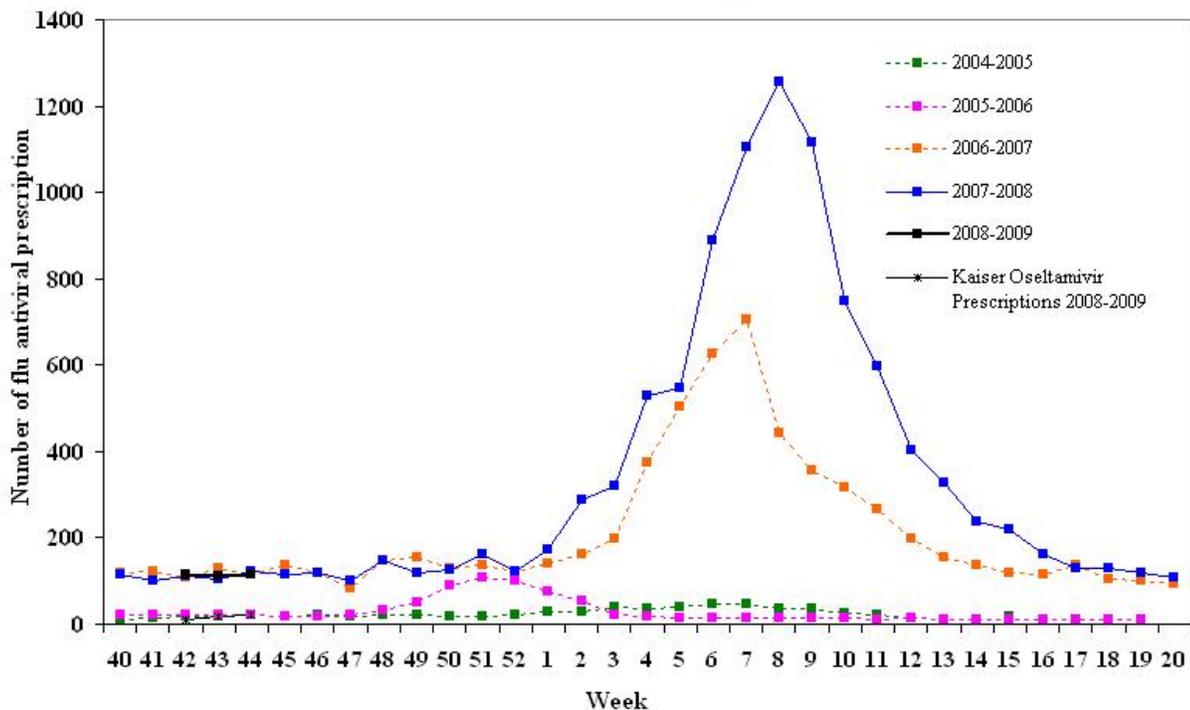
### Inpatient "Flu" Admissions 2004-2009 Southern California Kaiser



### California Sentinel Providers Influenza-Like Illness (ILI) Visits 2004-2009



### Kaiser Pharmacy Data Influenza Antiviral Usage 2004-2009



### Laboratory Data (viral isolation and detection)

		Sentinel Laboratories/Respiratory Laboratory Network <sup>‡</sup>	Sentinel Providers
<b>Week 45</b>	<b>Number of Sites Reporting</b>	18	16 specimens submitted through week 45 (0 positive by PCR)
	<b>Influenza A</b>	0 Total to date: 1	0
	<b>Influenza B</b>	1 <sup>a</sup> Total to date: 5	0
	<b>Influenza A/B</b>	0 Total to date: 0	0
	<b>RSV</b>	25 <sup>b</sup> Total to date: 53	0
	<b>Other Respiratory Viruses</b>	3 <sup>c</sup> Total to date: 36	0

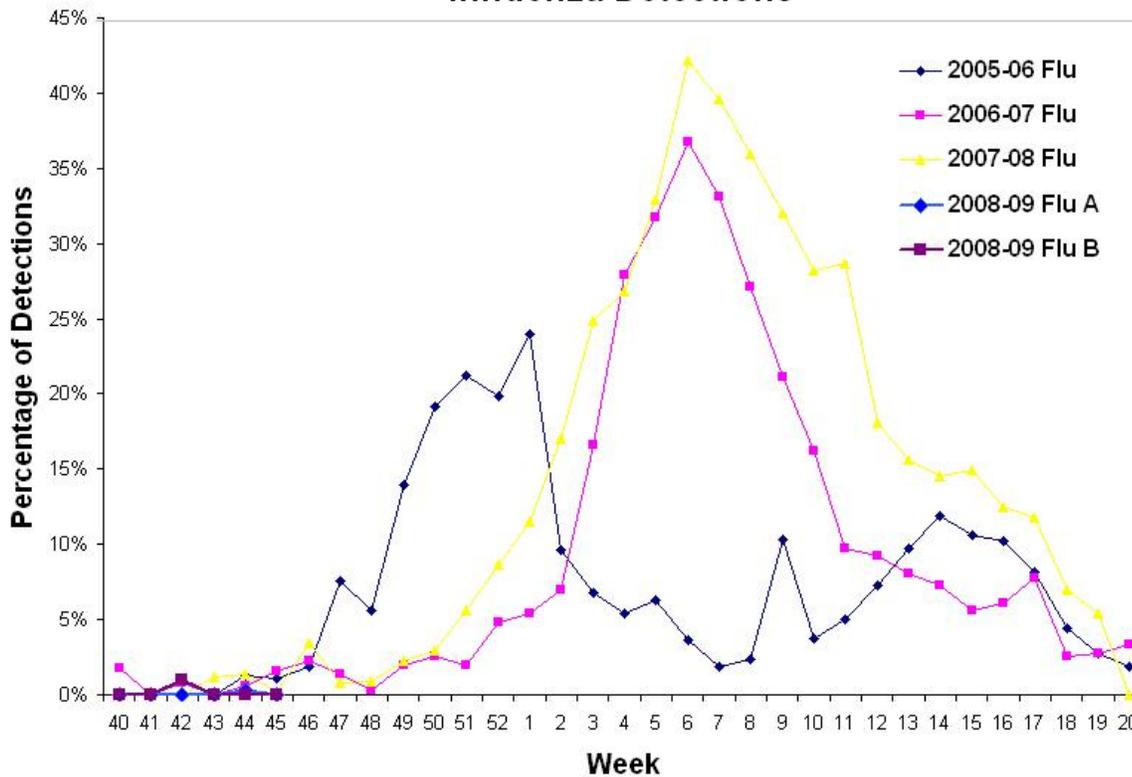
<sup>‡</sup>Sentinel laboratories are hospital, academic, private, and public health laboratories located throughout California that provide data on the number of laboratory-confirmed influenza and other respiratory virus detections and isolations. The Respiratory Laboratory Network (RLN) is a network of 23 local public health laboratories that offer enhanced diagnostic testing with the “R-mix” shell vial assay, which detects several respiratory pathogens, including influenza A and B viruses, respiratory syncytial virus, parainfluenza virus, and adenovirus. Some RLN labs also offer PCR testing for influenza A and B.

<sup>a</sup>Orange (1)

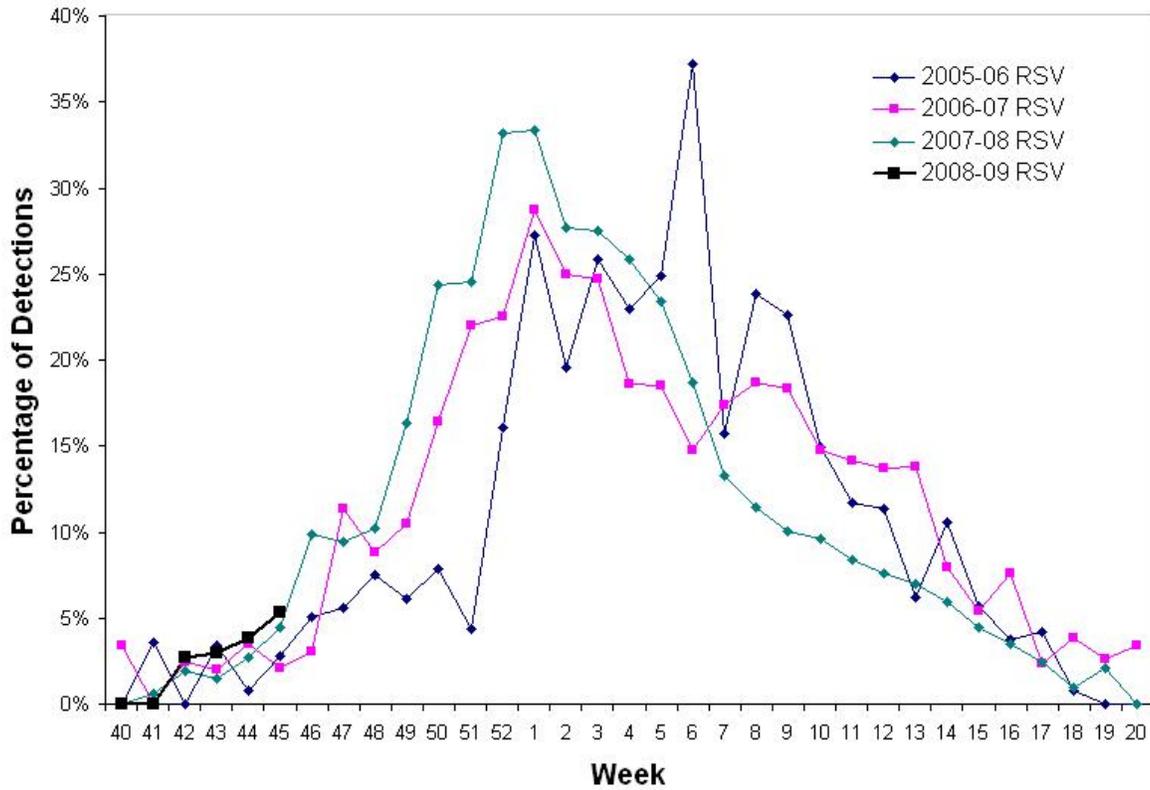
<sup>b</sup>Alameda (2); Contra Costa (2); Long Beach (1); Los Angeles (2); Marin (1); San Diego (1); San Francisco (6); San Mateo (4); Santa Clara (5); Sonoma (1)

<sup>c</sup>parainfluenza type 2 (2); adenovirus (1)

### Sentinel Laboratories/Respiratory Laboratory Network Influenza Detections



## Sentinel Laboratories/Respiratory Laboratory Network RSV Detections



### Respiratory Laboratory Network:

County Name	Rmix	PCR
Alameda	X	X
Contra Costa		X
Fresno	X	X
Humboldt		X
Imperial	X	
Long Beach	X	
Los Angeles	X	X
Monterey		X
Orange	X	X
Placer	X	X
Sacramento	X	
San Bernardino	X	X
San Diego	X	X
San Francisco	X	
San Joaquin	X	X
Santa Clara	X	X
Shasta	X	X
Solano	X	X
Sonoma	X	
Stanislaus	X	
Tulare	X	
Ventura	X	
VRDL	X	X

**Please continue to assist us in recruiting primary care providers (physicians, nurse practitioners, and physician assistants) to be sentinel physicians in your area.** For more information, contact Melissa Dahlke at [flu@cdph.ca.gov](mailto:flu@cdph.ca.gov) or 510-620-3494.

For questions about the California Influenza Surveillance Project, please contact Erica Boston ([erica.boston@cdph.ca.gov](mailto:erica.boston@cdph.ca.gov)) or Janice Louie ([janice.louie@cdph.ca.gov](mailto:janice.louie@cdph.ca.gov)).