

## **California Influenza and Respiratory Disease Surveillance for Week 17 (April 24–30, 2011)**

Note: This report includes data from many different sources of influenza surveillance, including syndromic surveillance, laboratory surveillance, voluntary case-based reporting of severely ill cases and mandatory reporting of influenza deaths for cases ages 0-17 years. The information contained in this report should be viewed as a “snapshot” of influenza activity for each surveillance week, and should not be considered as population-based data or representative of all California jurisdictions.

Based on decreased positive influenza tests reported statewide, influenza activity in California for Week 17 was downgraded to “sporadic\*.” Due to decreasing levels of influenza activity, the next report will be issued for Week 19 (May 8-14, 2011).

### **Influenza and Other Respiratory Disease Highlights (Week 17)**

- Influenza-like illness (ILI) activity in Week 17 showed low levels statewide as reflected by Centers for Disease Control and Prevention (CDC) sentinel provider outpatient visits (2.7%).
- Of 78 specimens tested by polymerase chain reaction (PCR) statewide by the Respiratory Laboratory Network (RLN) during Week 17, 5 (6.4%) were positive for influenza.
- Of 693 specimens tested by sentinel laboratories during Week 17, 13 (1.9%) were positive for influenza.

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\*Sporadic activity is defined by the CDC as “small numbers of laboratory-confirmed influenza cases or a single laboratory-confirmed influenza outbreak has been reported, but there is no increase in cases of ILI.”

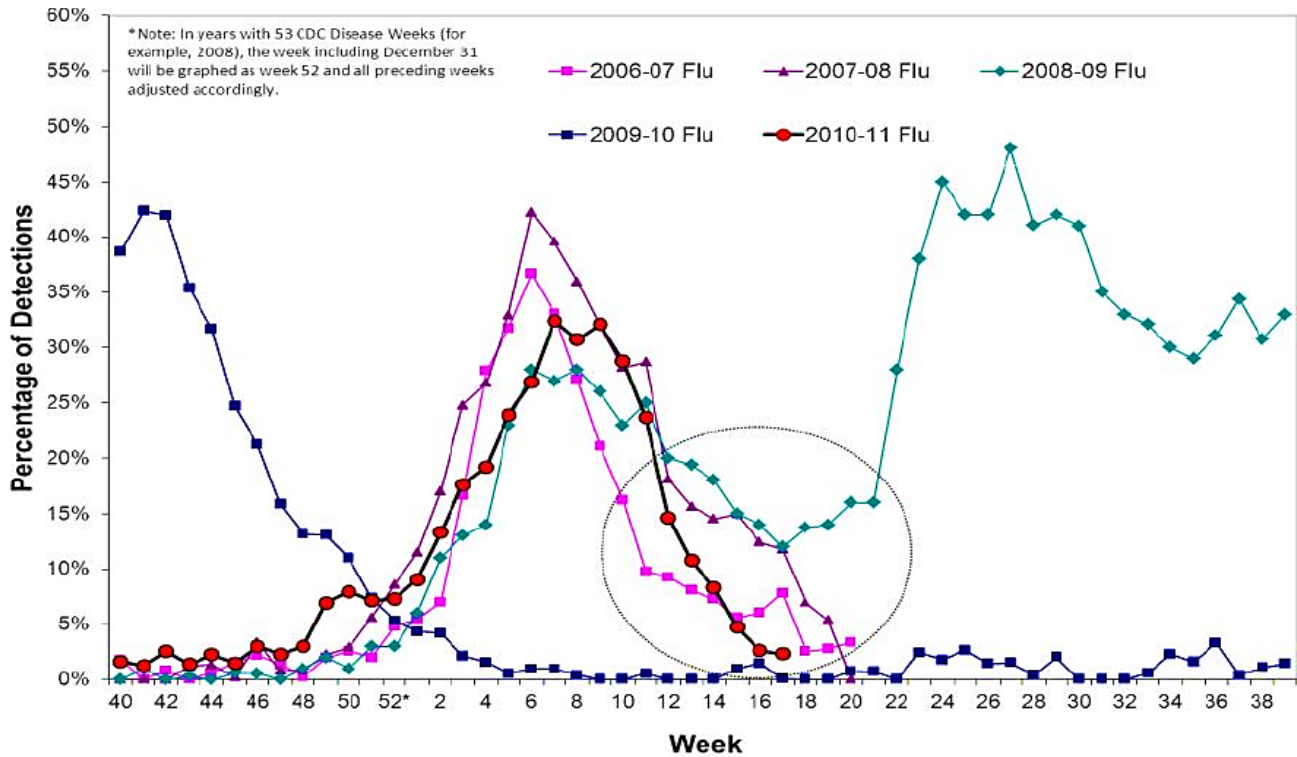
### **A. Syndromic Surveillance**

#### CDC Influenza Sentinel Providers

Sentinel providers report the number of outpatient visits for ILI and the total number of visits per week. These data are reported weekly as a percentage of total visits due to ILI. The ILI case definition is fever (temperature of 100°F [37.8°C] or greater) and a cough and/or a sore throat in the absence of a known cause other than influenza.

The percentage of ILI visits increased during Week 17 (2.7%) compared to the previous week (2.1%). A total of 70 sentinel providers have reported Week 17 data so far.

**Figure 1. California Sentinel Providers – Influenza-Like Illness Visits, 2006-2011**



**B. Laboratory Update**

**1. Respiratory Laboratory Network (RLN) Surveillance Results**

The RLN is composed of 28 local public health laboratories that offer PCR testing for influenza A and B and testing using the R-mix shell vial culture system to identify five other common respiratory viruses (RSV, adenovirus, and parainfluenza virus type 1-3).

The percentage of specimens that tested positive for influenza decreased in Week 17 (6.4%) compared to Week 16 (8.5%), [Table 1].

**Table 1. Respiratory Laboratory Network (RLN) Surveillance Results from Selected Laboratories\*, April 24–30, 2011**

	Total RLN* No. (%)	Northern CA (%)No.	Central CA No. (%)	Southern CA No. (%)
<b>Number of specimens tested by PCR</b>	<b>78</b>	<b>24</b>	<b>10</b>	<b>44</b>
Influenza A	4 (5.1) <sup>†</sup>	0 (0.0)	0 (0.0)	4 (9.1) <sup>†</sup>
A (seasonal H1N1)	0 (0.0) <sup>‡</sup>	0 (0.0)	0 (0.0)	0 (0.0)
A (H3)	2 (50.0) <sup>‡</sup>	0 (0.0)	0 (0.0)	2 (50.0) <sup>‡</sup>
A (2009 H1N1)	1 (25.0) <sup>‡</sup>	0 (0.0)	0 (0.0)	1 (25.0) <sup>‡</sup>
A (subtyping pending)	1 (25.0) <sup>‡</sup>	0 (0.0)	0 (0.0)	1 (25.0) <sup>‡</sup>
Influenza B	1 (1.3) <sup>†</sup>	1 (4.2) <sup>†</sup>	0 (0.0)	0 (0.0)
<b>Number of specimens tested by R-mix</b>	<b>12</b>	<b>1</b>	<b>9</b>	<b>2</b>
RSV	0 (0.0) <sup>¶</sup>	0 (0.0)	0 (0.0)	0 (0.0)
Other respiratory viruses	0 (0.0) <sup>¶</sup>	0 (0.0)	0 (0.0)	0 (0.0)

## 2. Sentinel Laboratory Surveillance Results

Sentinel laboratories are a network of clinical, commercial, academic, and hospital laboratories located throughout California that provide weekly data on the number of laboratory-confirmed influenza and other respiratory virus detections and isolations.

Table 2 shows positive influenza and RSV results reported from sentinel laboratories during Week 17. The percentage of specimens that tested positive for influenza decreased in Week 17 (13 of 693; 1.9%) compared to the previous week (22 of 1,024; 2.1%).

**Table 2. Influenza and other respiratory virus detections from Sentinel Laboratories, April 24–30, 2011**

	No. (%)
<b>Number of sites reporting</b>	<b>55</b>
<b>Total specimenstested for influenza</b>	<b>693</b>
Influenza	13 (1.9)*
Influenza A	10 (76.9)**, †
Influenza B	3 (23.1)**, ‡
<b>Total specimens tested for RSV</b>	<b>655</b>
RSV	16 (2.4)*, ¶

\* Percent of total specimens tested

\*\* Percent of specimens positive for influenza

Total number of positive lab results reported, by local health jurisdiction of patient's residence and/or site location:

† Alameda (1), Fresno (1), San Diego (5), Santa Clara (2), Solano (1)

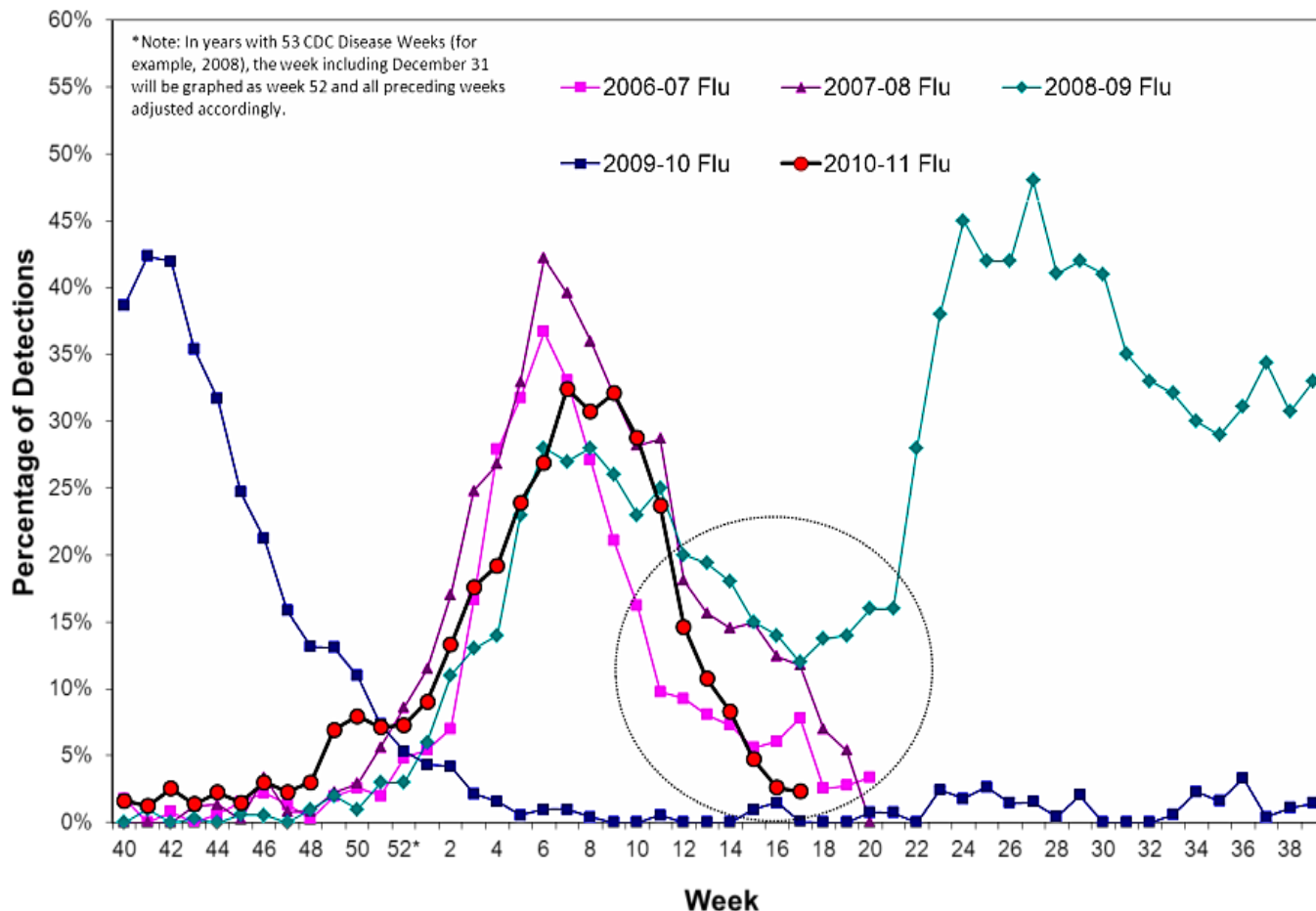
‡ Sacramento (1), Santa Clara (2)

¶ Fresno (2), Los Angeles (1), Monterey (1), Orange (1), Sacramento (1), San Diego (4), San Mateo (4), Santa Clara (1), Tulare (1)

### 3. Combined RLN and Sentinel Laboratory Surveillance Results

Figure 2 summarizes the combined laboratory data from both the RLN and the sentinel laboratories, and shows that influenza detections decreased in Week 17 (2.3%) compared to the previous week (2.6%).

**Figure 2. Influenza detections in Respiratory Laboratory Network and Sentinel Laboratories, 2006-2011**



For questions regarding this report or influenza surveillance and reporting in California, please email [InfluenzaSurveillance@cdph.ca.gov](mailto:InfluenzaSurveillance@cdph.ca.gov). This account is monitored daily by several epidemiologists. To obtain additional information regarding influenza, please visit the CDPH influenza website [Influenza \(Flu\) and Other Respiratory Diseases](#)

A copy of the case report form for reporting any laboratory-confirmed influenza case that was either admitted to the ICU or died can be downloaded from [Influenza \(Flu\) and Other Respiratory Diseases](#)