

## **California Influenza and Other Respiratory Disease Surveillance for Week 18 (April 29-May 5, 2012)**

Note: This report includes data from many different sources of influenza surveillance, including syndromic surveillance, laboratory surveillance, and mandatory reporting of influenza deaths for cases ages 0-64 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 public health jurisdictions.

**In week 18, the geographic distribution of influenza in California was downgraded to “local\*.”**

### **Influenza Report Highlights**

- Outpatient influenza-like illness (ILI) increased 0.7% in week 18 (2.9%) compared to week 17 (2.2%).
- Of 1114 specimens tested during week 18,
  - 152 (13.6%) were positive for influenza; of these
    - 54 (35.5%) were influenza B and
    - 98 (64.5%) were influenza A.
      - 9 (9.2%) were subtyped as 2009 A (H1),
      - 50 (51.0%) were subtyped as seasonal A (H3), and
      - 39 (39.8%) were not subtyped.
- Of the 125 influenza isolates tested during the 2011-12 influenza season, one was resistant to neuraminidase inhibitors.
- Of the 103 specimens from California residents that have been strain-typed this season, all but eight influenza B strains matched the 2011-12 influenza vaccine.
- No laboratory-confirmed influenza-associated deaths among persons less than 65 years was reported in week 18.
- No suspected or confirmed influenza A (H3N2)v [variant influenza A (H3N2), formerly called swine-origin triple reassortant A (H3N2)] has been detected in California.

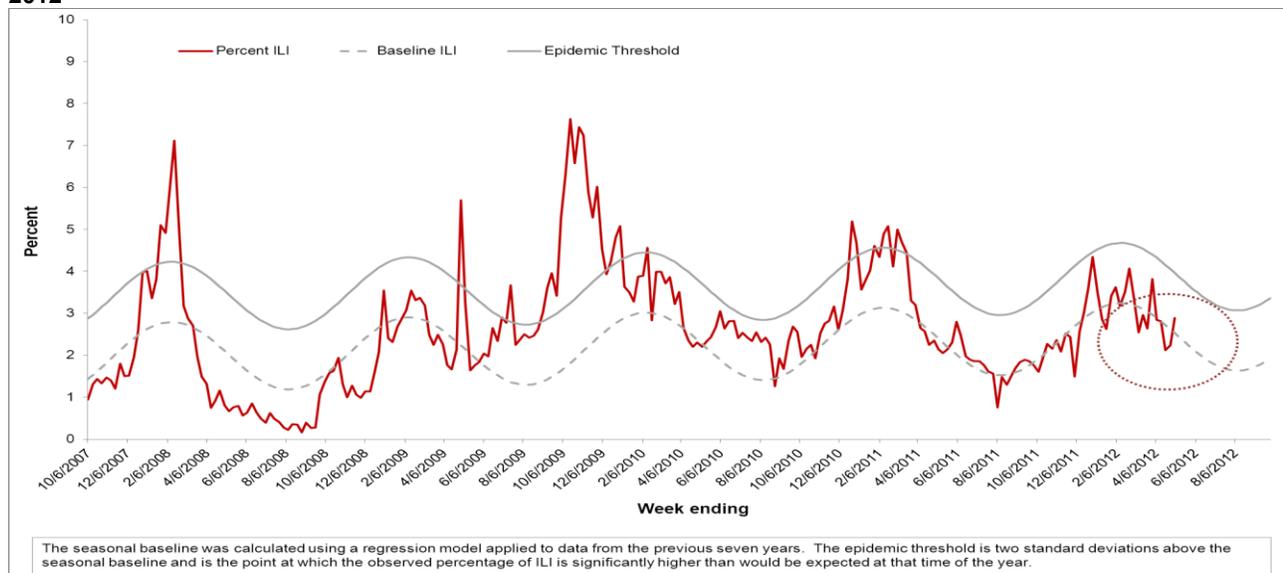
\*For the Centers for Disease Control and Prevention (CDC) definitions of influenza geographic distribution, please go to <http://www.cdc.gov/flu/weekly/overview.htm>.

### **A. Syndromic Surveillance Update**

#### **1. CDC Influenza Sentinel Providers**

A total of 58 (29.4%) out of 197 enrolled sentinel providers have reported data for week 18. Based on available data, the percentage of ILI visits for week 18 (2.9%) was above baseline (Figure 1).

**Figure 1. Percentage of Influenza-like Illness Visits Among Patients Seen by California Sentinel Providers, 2007–2012**



## 2. Kaiser Permanente Hospitalization Data (“Flu Admissions”)

The percentage of Kaiser Permanente hospitalizations for pneumonia and influenza in Northern California increased in week 18 (4.5%) compared to week 17 (4.3%).

### B. Laboratory Update

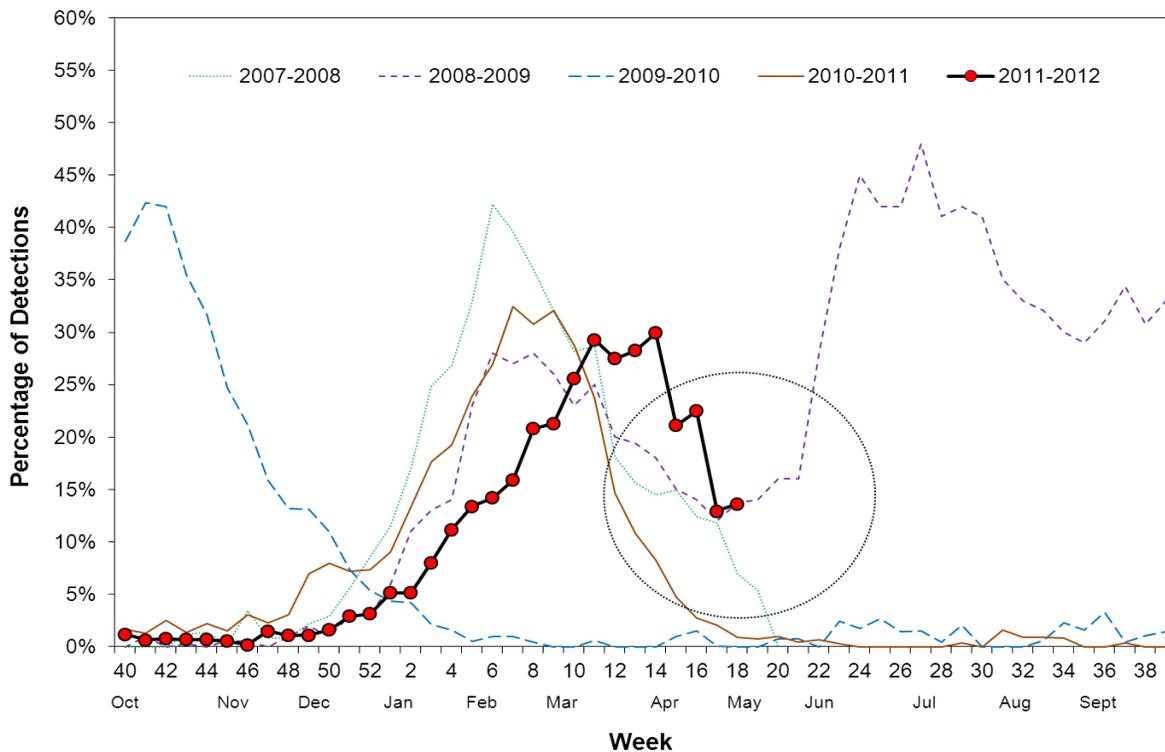
#### 1. Respiratory Laboratory Network (RLN) and Sentinel Laboratory Surveillance Results

The percentage of influenza detections in the RLN and sentinel laboratories increased slightly in week 18 (13.6%) compared to week 17 (12.9%) (Figure 2). Of 1114 specimens tested by the RLN and sentinel laboratories, 54 (4.8%) were positive for influenza B and 98 (8.8%) were positive for influenza A (Figure 3). Of the 98 specimens that tested positive for influenza A, 9 (9.2%) were subtyped as 2009 A (H1), 50 (51.0%) were subtyped as seasonal A (H3), and 39 (39.8%) had no further subtyping performed. The influenza-positive specimens were reported statewide.

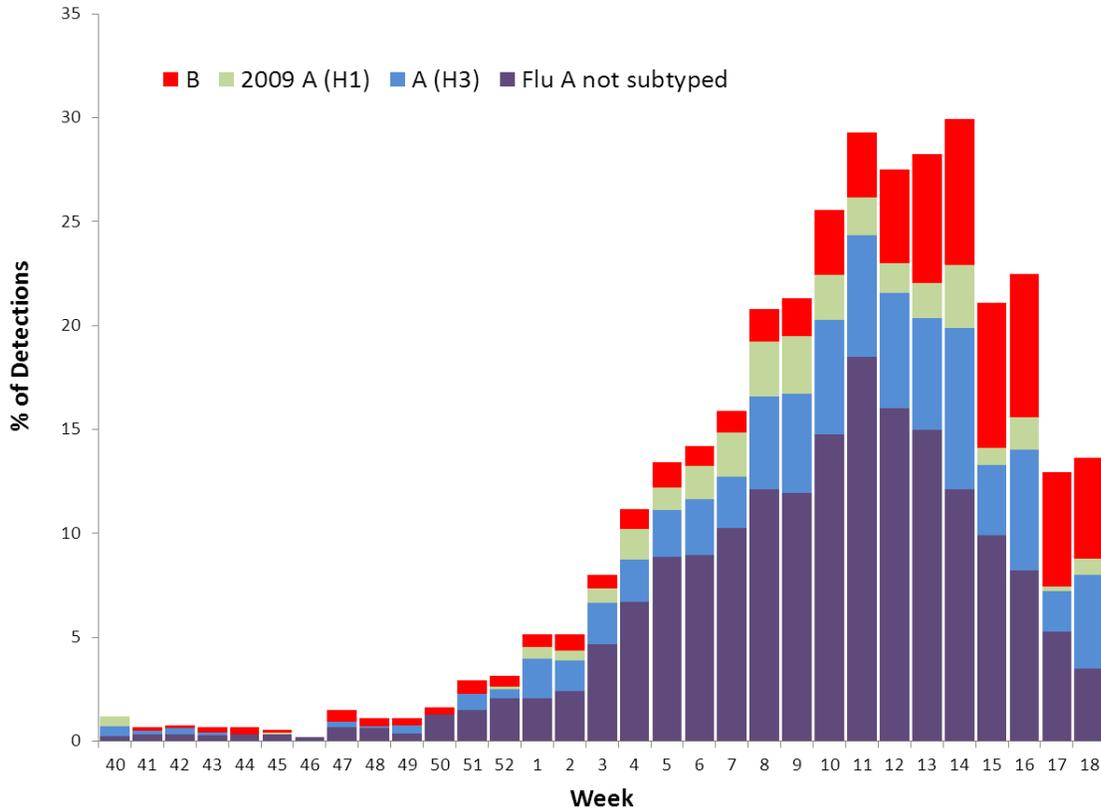
To date for the 2011-2012 season, of 49,225 specimens tested, 7302 (14.8%) were positive for influenza; of these, 1213 (16.6%) were influenza B and 6089 (83.4%) were influenza A. Of the 6089 specimens that tested positive for influenza A, 607 (10.0%) were subtyped as 2009 A (H1), 1528 (25.1%) were subtyped as seasonal A (H3), and 3954 (64.9%) had no further subtyping performed.

Neither the RLN nor the California Department of Public Health Viral and Rickettsial Disease Laboratory (CDPH-VRDL) have identified any influenza viruses by polymerase chain reaction (PCR) typing or subtyping that are suggestive of the influenza A (H3N2)v infection.

**Figure 2. Percentage of Influenza Detections in Respiratory Laboratory Network and Sentinel Laboratories, 2007–2012**

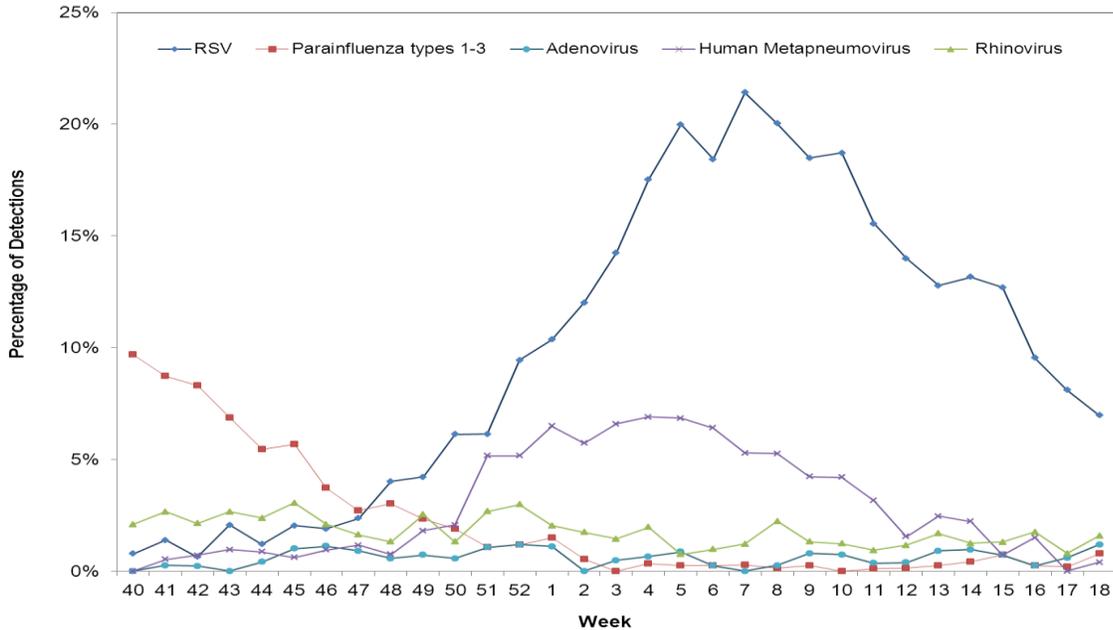


**Figure 3. Percentage of Influenza Types and Subtypes in Respiratory Laboratory Network and Sentinel Laboratories, 2011–2012**



The proportion of respiratory syncytial virus (RSV) detections decreased in week 18 (7.0%, compared to 8.1% in week 17) (Figure 4).

**Figure 4. Other Respiratory Pathogen Detections in Respiratory Laboratory Network and Sentinel Laboratories, Weeks 40-18 (October 2, 2011 – May 5, 2012)**



## 2. Antiviral Resistance Testing (AVR)

CDPH-VRDL has tested 125 influenza specimens for antiviral resistance to date during the 2011-2012 influenza season; all but one influenza A (2009 H1N1) have been sensitive to neuraminidase inhibitors (Table 1).

**Table 1. Number of Specimens Tested for Antiviral Resistance**

	<b>Neuraminidase Inhibitors Resistance</b>
<b>Influenza A (2009 H1N1)</b>	1/34
<b>Influenza A (H3N2)</b>	0/91

## 3. Influenza Virus Strain Characterization

Of the 103 California specimens that have been strain-typed to date during the 2011-2012 influenza season, all but eight influenza B matched with components of the 2011-2012 vaccine for the Northern Hemisphere (Table 2).

**Table 2. Influenza Virus Antigenic Characterization for the 2011-12 Season**

	<b>Total (N=103)</b>
<b>Influenza A</b>	<b>82</b>
A/Perth/16/2009-like (H3N2)*	52
A/California/07/2009-like (H1N1)*	30
<b>Influenza B</b>	<b>21</b>
B/Brisbane/60/2008-like*	13
B/Wisconsin/01/2010-like	8

\*Matches components of the 2011-12 Northern Hemisphere influenza vaccine

## **C. Laboratory-confirmed Fatal Case Reports**

CDPH received no reports of influenza-associated deaths among persons less than 65 years old in week 18.

To date during the 2011-2012 influenza season, CDPH has received 33 reports of influenza-associated deaths among persons less than 65 years old; 6 were among children 0-17 years and 27 were among adults 18-64 years.

## **D. Influenza-associated Outbreaks**

CDPH received one report of a laboratory-confirmed influenza outbreak in week 18 in a congregate living facility that was associated with influenza A (H3).

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For questions regarding 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.

For more information regarding the different influenza surveillance data sources, please visit the CDPH Influenza Surveillance Program at <http://www.cdph.ca.gov/programs/dcdc/Pages/CaliforniaInfluenzaSurveillanceProject.aspx>.

To obtain additional information regarding influenza, please visit the CDPH influenza website at [http://www.cdph.ca.gov/HealthInfo/discond/Pages/Influenza\(Flu\).aspx](http://www.cdph.ca.gov/HealthInfo/discond/Pages/Influenza(Flu).aspx).

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 [http://www.cdph.ca.gov/HealthInfo/discond/Pages/Influenza\(Flu\).aspx](http://www.cdph.ca.gov/HealthInfo/discond/Pages/Influenza(Flu).aspx).