California Influenza Surveillance Program

California Influenza and Other Respiratory Disease Surveillance for Week 50
(December 9–December 15, 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.

Based on low levels of influenza-like illness and laboratory detections, overall influenza activity in California during Week 50 remained “sporadic.”

Influenza Report Highlights

- Outpatient influenza-like illness (ILI) increased 0.3 percentage points in Week 50 (2.8%) compared to Week 49 (2.5%).
- Of 1503 specimens tested during Week 50,
  - 50 (3.3%) were positive for influenza virus; of these
    - 5 (10.0%) were influenza B and
    - 45 (90.0%) were influenza A
  - 19 (42.2%) were subtyped as seasonal A (H3) and
  - 26 (57.8%) were not subtyped
- The California Department of Public Health Viral and Rickettsial Disease Laboratory (CDPH-VRDL) has not tested any specimens for antiviral resistance to date.
- The Centers for Disease Control and Prevention (CDC) has not strain-typed any California specimens to date.
- CDPH has received one report of an influenza-associated death in a person less than 65 years of age to date.
- No cases of novel influenza have been detected in California to date.

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

A. Syndromic Surveillance Update

1. CDC Influenza Sentinel Providers

A total of 91 enrolled sentinel providers have reported data for Week 50, compared to an average of 117 providers reporting for each of the previous weeks. Based on available data, the percentage of visits for ILI in Week 50 (2.8%) was below baseline (3.0%) (Figure 1).
2. Kaiser Permanente Hospitalization Data

The percentage of hospitalizations for pneumonia and influenza (P&I) in Kaiser Permanente facilities in northern California was below baseline (5.3%) during Week 50 (Figure 2). During Week 50, 4.2% of hospitalizations were due to P&I, compared to 4.6% of hospitalizations in the previous week.
B. Laboratory Update

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

The percentage of influenza detections in the RLN and sentinel laboratories remained low in Week 50 (3.3%, compared to 3.5% in Week 49) (Figure 3). In Week 50, of 1503 specimens tested by the RLN and sentinel laboratories, 5 (0.3%) were positive for influenza B and 45 (3.0%) were positive for influenza A. Of the 45 specimens that tested positive for influenza A, 19 (42.2%) were subtyped as seasonal A (H3) and 26 (57.8%) had no further subtyping performed. The influenza-positive specimens were reported statewide.

For the 2012–2013 season to date (October 6, 2012 - December 15, 2012), of 9925 specimens tested, 211 (2.1%) were positive for influenza; of these, 52 (24.6%) were influenza B and 159 (75.4%) were influenza A. Of the 159 specimens that tested positive for influenza A, 68 (42.8%) were subtyped as seasonal A (H3), 2 (1.3%) were subtyped as 2009 A (H1N1), and 89 (56.0%) had no further subtyping performed.

Neither the RLN nor CDPH-VRDL have identified any influenza viruses by polymerase chain reaction (PCR) typing or subtyping that are suggestive of a novel influenza virus.
Figure 3. Percentage of Influenza Detections in Respiratory Laboratory Network and Sentinel Laboratories, 2007–2012

The proportion of respiratory syncytial virus (RSV) detections increased in Week 50 (22.1%, compared to 16.4% in Week 49) (Figure 4).

Figure 4. Percentage of RSV Detections in Respiratory Laboratory Network and Sentinel Laboratories, 2007–2012

2. Antiviral Resistance Testing

CDPH-VRDL has not tested any influenza specimens for antiviral resistance in any influenza specimens recovered to date during the 2012–2013 influenza season.
3. Influenza Virus Strain Characterization

No California specimens have been strain-typed to date during the 2012–2013 influenza season.

C. Laboratory-confirmed Fatal Case Reports

Currently, as mandated under Section 2500 of the California Code of Regulations, deaths among patients aged 0-64 years with laboratory-confirmed influenza are reportable to CDPH.

CDPH has received one report of an influenza-associated death in a person under 65 years of age during the 2012–2013 influenza season. No new reports were received during Week 50.

D. Influenza-associated Outbreaks

CDPH has received no reports of laboratory-confirmed influenza outbreaks during the 2012–2013 influenza season to date.

For questions regarding influenza surveillance and reporting in California, please email 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 https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/Immunization/Flu-Reports.aspx

To obtain additional information regarding influenza, please visit the CDPH influenza website at https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/Immunization/Influenza.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 the Severe Influenza Case History Form Link at https://www.cdph.ca.gov/CDPH%20Document%20Library/ControlledForms/cdph9070.pdf.