Influenza Weekly Report

2017 Week 16 (April 16 – April 22, 2017) through 2018 Week 16 (April 15 – April 21, 2018)

Department of Health and Human Services
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May, 2018
Edition 1.0
Data for the graphs and tables on the following pages are provisional and may be updated as additional information becomes available.

**Purpose**

The purpose of this report is to provide an overview of and statistics for the influenza season in Nevada for the local public health authorities, sentinel providers and the public.

**Sentinel Provider Data: Influenza-Like Illness Network Surveillance (ILINet)**

Respiratory specimens are tested for influenza by the World Health Organization (WHO) and National Respiratory and Enteric Virus Surveillance System (NRVESS) collaborating laboratories by sub-type. During week 16, there were 16,420 specimens collected and tested for influenza, of those 1,619 were positive (9.9%).

![National Influenza Positive Tests by Week: 53 Week Comparison (2017 WK 16 - 2018 WK 16)](image)

**Source of Data:** CDC: FluView Weekly Report.

The Nevada total includes laboratory tests for all Nevada residents tested by sentinel providers including out of state laboratories. Laboratory data is obtained from CDC’s ILINet system. During week 16, where there were 6 specimens collected, in which 2 were positive. There is a two-week delay for laboratory surveillance. Data are subject to change as we receive additional reports.

![Nevada (ILI Providers) Influenza Laboratory Confirmed Positive by Week: 53 Week Comparison (2017 WK 16 - 2018 WK 16)](image)

**Source of Data:** CDC: ILINet.
Nevada State Public Health Laboratory (NSPHL) has tested 629 specimens for influenza from sentinel providers, of which there have been 539 positive (85.7%). Southern Nevada Public Health Laboratory (SNPHL) has tested 111 specimens this season of which there have been 7 positive. Nationally, there have been 1,238,125 specimens sent to the WHO and NERVSS laboratories of which 271,029 have been positive (21.9%). The national numbers in Table 1 are reflected in Figure 1. The state of Nevada data in Table 1 is reflected in Figure 2. The Nevada total includes laboratory test for all Nevada residents tested by sentinel providers, including out of state laboratories.

<table>
<thead>
<tr>
<th>Table 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Influenza Specimens Tested State and Nationally through Sentinel Providers</strong></td>
</tr>
<tr>
<td>NSPHL</td>
</tr>
<tr>
<td>-------</td>
</tr>
<tr>
<td>Specimens Tested</td>
</tr>
<tr>
<td>Influenza Positives</td>
</tr>
</tbody>
</table>

**Influenza A:**
- 324 specimens tested
- 22 (H1N1)
- 302 (H3)
- 0 (Sub-typing not performed)

**Influenza B:**
- 215 specimens tested
- 1 (Victoria Lineage)
- 214 (Yamagata Lineage)
- 0 (Sub-typing not performed)

Source of Data: CDC: FluView Report and CDC: ILINet.

Influenza-like Illness (ILI) Surveillance Network has each sentinel provider report the number of patients seen that meet the ILI case definition and the total number of patients seen for any reason each week. The “percentage of visits for ILI” is the number of ILI patients divided by the total number of patients visit per week. Nevada’s percentage of ILI visits for week 16 is 1.1% which is below the state baseline of 1.5%. Region 9 ILI percentage for week 16 is 1.9% which is below the regional baseline of 2.4%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 16 is 1.7% which is below the national baseline of 2.2%.

**Figure 3**

Percentage of Visits for ILI Reported to Outpatient ILI Surveillance Network, Comparison Between National, Regional, and State, 53 Week Comparison (2017 WK 16 - 2018 WK 16)

Source of Data: CDC: Flu View Report and CDC: ILINet.

During week 16, 1.1% of visits to sentinel providers were due to ILI; this is greater than the 2016-2017 influenza season (0.8%). There were 9,206 patients seen by sentinel providers during week 16, of which 98 patients presented with ILI; week 16 of 2017, there were 139 patients seen with ILI (18,021 total patients seen). Data availability depends on sentinel provider reporting.
Influenza Positive Surveillance (NBS and NETSS)

Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 7 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 16, there were 138 influenza cases reported to the state, 44 influenza A, 89 influenza B and 5 unknown subtyping.

Table 2

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Reported Influenza Cases by County Jurisdiction and Influenza Type</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current Week (Week 16)</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>Carson City Health and Human Services</td>
<td>5</td>
<td>12</td>
</tr>
<tr>
<td>Rural Community Health Services</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td>28</td>
<td>50</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td>9</td>
<td>25</td>
</tr>
<tr>
<td>State of Nevada</td>
<td>44</td>
<td>89</td>
</tr>
</tbody>
</table>

Source: to Office of Analytics: NBS and SNHD: NETSS.
Figure 6

Weekly Reported Influenza by Subtype as Compared with Respiratory Syncytial Virus Infections (RSV)
53 Week Comparison (2017 WK 16 - 2018 WK 16)

Source of Data: to Office of Analytics: NBS and SNHD: NETSS.

Hospitalizations

There were 9 hospitalizations associated with influenza reported to the state health authority for week 16.

Table 3

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Influenza Hospitalizations</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Current Week (Week 16)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>#</td>
<td>%</td>
</tr>
<tr>
<td>Carson City Health and Human Services</td>
<td>1</td>
<td>11.1</td>
</tr>
<tr>
<td>Rural Community Health Services</td>
<td>1</td>
<td>11.1</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td>5</td>
<td>55.6</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td>2</td>
<td>22.2</td>
</tr>
<tr>
<td>State of Nevada</td>
<td>9</td>
<td>100</td>
</tr>
</tbody>
</table>

Source: Reported to Office of Analytics from each Jurisdiction.

Pneumonia and Influenza (P&I) Mortality Surveillance

The Pneumonia and Influenza (P&I) mortality percentage is all deaths, where Pneumonia or Influenza is listed as the underlying or contributing cause of death, divided by the total deaths in Nevada for each week. As of May 1st, there were 24 P&I deaths and 393 total deaths for week 16 in Nevada. Please note that the CDC does not have updated P&I counts for week 15 or week 16.

Figure 7

Pneumonia and Influenza (P&I) Mortality by Week,
NCHS Mortality Data Compared to Nevada
53 Week Comparison (2017 WK 16 - 2018 WK 16)

Source: OVR: WEVRSS and CDC: FluView.
Technical Notes

- Data are subject to changes, additionally, there is a lag in reporting.
- Influenza surveillance procedures vary by jurisdiction.
- Influenza-like illness (ILI): a fever greater than or equal 100°F with cough and/or sore throat.
- Percent positive: The number of positive influenza laboratory tests divided by the total number of tests performed.
- Incidence rate is per 100,000 population as estimated by the state demographer.

This report contains information from national and state-level data sources. Influenza surveillance data is collected by various systems, including:

- Influenza-like Illness Network (ILINet): a sentinel surveillance system in collaboration with the Centers for the Disease Control and Prevention (CDC) where outpatient providers report ILI information weekly.
- National Electronic Telecommunication System for Surveillance (NETSS): a system whereby data is transmitted to CDC. Influenza data collected through NETSS does not provide influenza sub-typing information.
- National Electronic Disease Surveillance System (NEDSS): a system for collecting data and monitoring disease trends and outbreaks.
- NEDSS Based System (NBS): an implementation of the NEDSS standards. It provides a secure, accurate, and efficient means of collecting, transmitting, and analyzing public health data.

Citations


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Recommended Citation:

This publication was supported by Cooperative Agreement Number TP000534-02 from the Centers for Disease Control and Prevention and/or Assistant Secretary for Preparedness and Response. Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the Centers for Disease Control and Prevention and/or Assistant Secretary for Preparedness and Response.