Influenza Weekly Report

2013 Week 44 (October 27 – November 2) through 2014 Week 44 (October 26 – November 1)

Department of Health and Human Services
Division of Public and Behavioral Health
Office of Public Health Informatics and Epidemiology

Brian Sandoval
Governor
State of Nevada

Romaine Gilliland
Director
Department of Health and Human Services

Richard Whitley, MS
Administrator
Division of Public and Behavioral Health

Tracey D Green, MD
Chief Medical Officer
Division of Public and Behavioral Health

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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.

**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 (NRVSS) collaborating laboratories by subtype. During week 44, there were 10,494 specimens collected and tested for influenza, of those 669 were positive (6.0%).

**Figure 1**

![National Influenza Positive Tests by Week 53 Week View (2013 WK 44 - 2014 WK 44)](image)


The Nevada total includes laboratory tests for all Nevada residents including out of state laboratories. During week 44, there were 12 specimens collected and tested for influenza, of which 2 were positive (16.7%).

**Figure 2**

![Nevada (ILI Providers) Influenza Laboratory Confirmed Positive by Week 53 Week View (2013 WK 44 - 2014 WK 44)](image)

*Source of Data: CDC: ILINet.*
Nevada State Public Health Laboratory (NSPHL) has tested 14 specimens for influenza from sentinel providers, 3 of which have been positive (21.4%). Southern Nevada Public Health Laboratory (SNPHL) has not had positive influenza specimens this season. Nationally, there have been 51,153 specimens sent to the WHO and NERVSS laboratories with 2,490 positive or 4.9%. 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 including out of state laboratories.

### Table 1

<table>
<thead>
<tr>
<th></th>
<th>NSPHL</th>
<th>SNPHL</th>
<th>State of Nevada (Week 44)</th>
<th>State of Nevada (Season)</th>
<th>National (Week 44)</th>
<th>National (Season)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specimens Tested</td>
<td>14</td>
<td>81</td>
<td>12</td>
<td>98</td>
<td>10,494</td>
<td>51,153</td>
</tr>
<tr>
<td>Positives to Influenza</td>
<td>3</td>
<td>0</td>
<td>2</td>
<td>16.7</td>
<td>3</td>
<td>6.0</td>
</tr>
</tbody>
</table>

**Influenza A:**

- A(2009 H1N1) 2 0 2 100 2 66.7 542 81.0 1,816 72.9
- A(H3) 2 0 2 100 2 100 252 46.5 910 50.1
- A(Sub-typing not performed) 0 0 0 0.0 0 0.0 289 53.3 884 48.7

**Influenza B:**

- 1 0 1 33.3 1 127 19.0 673 27.0

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

Influenza-like Illness (ILI) Surveillance Network has each sentinel providers report the number of patients that meet the ILI case definition and number of patients that visit the provider weekly. The “percentage of visits” is the number of ILI patients divided by the total number of patients visit per week. Nevada’s ILI percentage of visits to providers for week 44 is 0.7% and is below the state baseline 1.4. Region 9 ILI percentage for week 44 is 1.8% and includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 44 is 1.5% and is below the national baseline 2.0.

### Figure 3

**Percentage of Visits for ILI Reported to Outpatient ILI Surveillance Network, Comparison Between National, Regional, and State, 53 Week Comparison (2013 WK 44 - 2014 WK 44)**

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

During week 44, 0.7% of visits to sentinel providers were due to ILI; this is a decrease of 0.1% from the 2013-2014 influenza season.
Influenza Weekly Report

v 2014 i 44 (October 26 – November 1, 2014)

Figure 4

Nevada Percentage of Visits for Influenza-like Illness, Weekly Summary
53 Week Comparison (2009-2014)

Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups, during week 44, patients age 0-4 were the greatest number of patients seen with ILI. The rate for week 44 is 4.0 per 100,000. The rate is calculated by the number of patients presented with ILI divided by the state population multiplied by 100,000. The estimated state population for 2014 is 2,819,321.

Figure 5

ILINet: Influenza-like Illness by Age Group and MMWR Week and the Incidence Rate
53 Week Comparison (2013 WK 44 - 2014 WK 44)

Source of Data: CDC: ILINet.

BioSense

The BioSense application is a monitoring system of the CDC’s National Syndromic Surveillance Program that aims to increase the ability of state health authorities to track and respond to harmful health efforts of exposure to disease or hazardous conditions. During week 44, 65 patients were seen with ILI through BioSense, 0.3% of the total patients seen.

Table 2

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Current Week (Week 44)</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carson City Health and Human Services</td>
<td>8</td>
<td>47</td>
</tr>
<tr>
<td>Community Health Nursing</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td>33</td>
<td>188</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td>24</td>
<td>79</td>
</tr>
<tr>
<td>State of Nevada</td>
<td>65</td>
<td>316</td>
</tr>
</tbody>
</table>

Source of Data: BioSense.
Influenza-like Illness monitored through BioSense had the highest patient visits with ILI in the 25-49 age groups, which is different from the ILINet surveillance (age group 0-4). The total patient seen with ILI increased from week 43, with 58 patients to 65 patients during week 44.

**Figure 6**

**BioSense: Influenza-like Illness by Age Group and Percent of Total Visits**

53 Week Comparison (2013 WK 44 - 2014 WK 44)

*Source of Data: BioSense.*

**Influenza Positive Surveillance (NBS and NETSS)**

Positive cases of influenza are reported to the state health authority for surveillance purposes. Figure 6 and Table 2 reflects 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 44, there were 8 influenza cases reported to the state, 5 Influenza A and 3 Influenza B cases.

**Figure 7**

**Weekly Reported Influenza by Subtype as Compared with Respiratory Syncytial Virus Infections (RSV)**

53 Week Comparison (2013 WK 44 - 2014 WK 44)

*Source of Data: OPHIE: NBS and SNHD: NETSS.*
Table 3

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Reported Influenza Cases by County Jurisdiction and Influenza Type</th>
<th>Current Week (Week 44)</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>H1N1 A B Unknown Total</td>
<td>H1N1 A B Unknown Total</td>
</tr>
<tr>
<td>Carson City Health and Human Services</td>
<td></td>
<td>0 1 0 0 1</td>
<td>0 2 0 0 2</td>
</tr>
<tr>
<td>Community Health Nursing</td>
<td></td>
<td>0 0 0 0 0</td>
<td>0 1 1 0 2</td>
</tr>
<tr>
<td>Southern Nevada Health District</td>
<td></td>
<td>0 0 1 0 1</td>
<td>0 4 4 0 8</td>
</tr>
<tr>
<td>Washoe County Health District</td>
<td></td>
<td>0 4 2 0 6</td>
<td>0 4 8 0 12</td>
</tr>
<tr>
<td>State of Nevada</td>
<td></td>
<td>0 5 3 0 8</td>
<td>0 11 13 0 24</td>
</tr>
</tbody>
</table>

Source: OPHIE: NBS and SNHD: NETSS.

Hospitalizations

There have been 0 hospitalizations associated with influenza reported to the state health authority during week 44.

Table 4

<table>
<thead>
<tr>
<th>Reporting Jurisdiction</th>
<th>Influenza Hospitalizations</th>
<th>Current Week (Week 44)</th>
<th>Cumulative Influenza Season</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>#</td>
<td>%</td>
</tr>
<tr>
<td>Carson City Health and Human Services</td>
<td></td>
<td>0</td>
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<td>0</td>
<td>0.0</td>
</tr>
<tr>
<td>State of Nevada</td>
<td></td>
<td>0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

Source: Reported to Office of Public Health Informatics and Epidemiology from each Jurisdiction.

Pneumonia and Influenza (P&I) Mortality Surveillance

The Pneumonia and Influenza (P&I) mortality percentage is the 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. During week 44, there are 17 deaths associated with P&I, as of November 11, which is below the national epidemic threshold at 5.3% (threshold at 6.2%). Nationally, the P&I mortality is below the national epidemic threshold at 5.7%.

Figure 8

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

- **Influenza-like illness (ILI):** a fever greater than or equal to 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:** 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 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


Comments, suggestions, and requests for further information may be addressed to:

**NEVADA INFLUENZA SURVEILLANCE PROGRAM**
**OFFICE OF PUBLIC HEALTH INFORMATICS AND EPIDEMIOLOGY**
4126 TECHNOLOGY WAY, STE 200
CARSON CITY NV 89706
TEL: (775) 684-5897
FAX: (775) 684-5999

Compiled and Written by:

JEN THOMPSON

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