

Influenza Weekly Report

2015 Week 41 (October 11 – 17) through 2016 Week 41 (October 9 – 15)

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



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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.

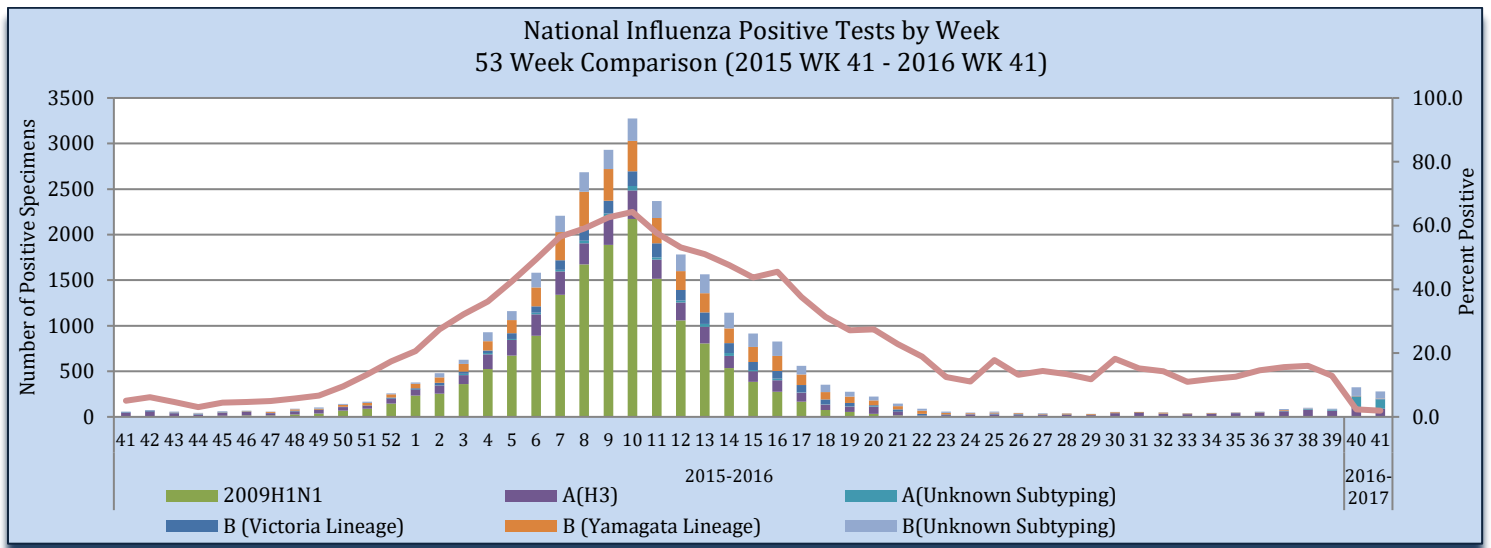
Purpose

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 (NRVESS) collaborating laboratories by sub-type. During week 41, there were 14,405 specimens collected and tested for influenza, of those 280 were positive (1.9%).

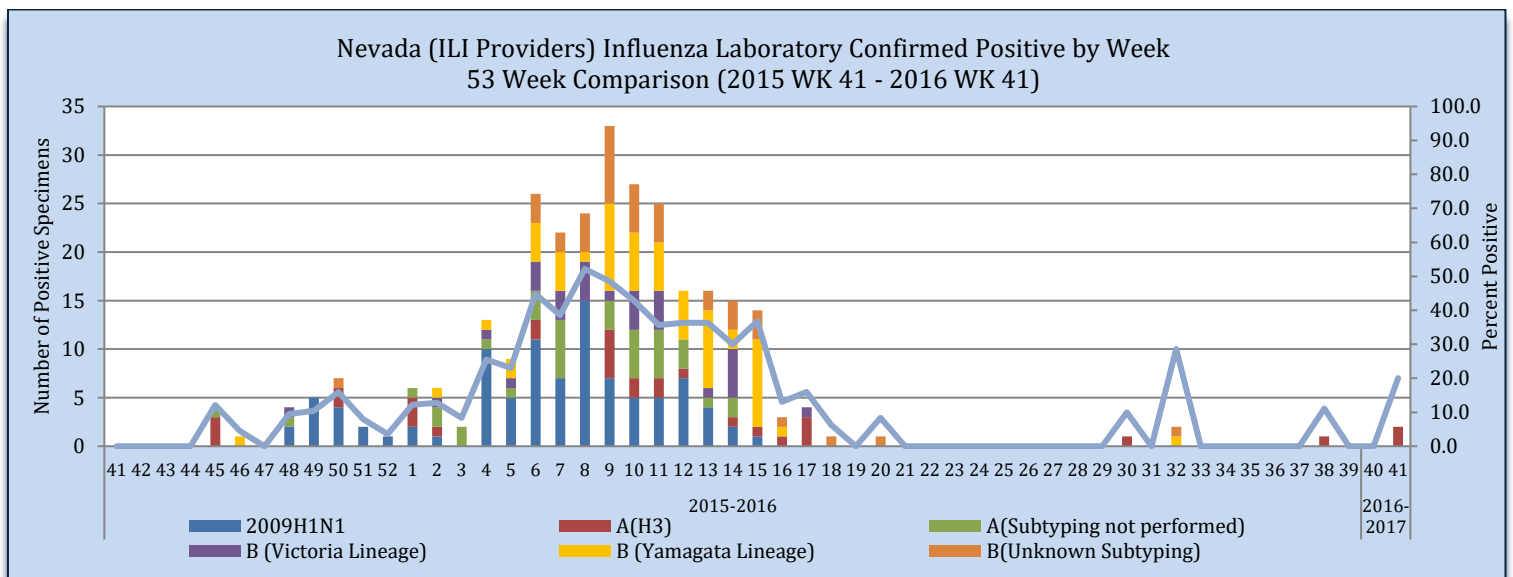
Figure 1



Source of Data: CDC: FluView Weekly Report.

The Nevada total includes laboratory tests for all Nevada residents including out of state laboratories. During week 41, there were 10 specimens collected and 2 were positive (20.0%).

Figure 2



Source of Data: CDC: ILINet.

Nevada State Public Health Laboratory (NSPHL) has tested 7 specimens for influenza from sentinel providers, of which there have been 2 were positive (28.6%). Southern Nevada Public Health Laboratory (SNPHL) has tested 8 specimens this season of which there have been 0 positives. Nationally, there have been 28,349 specimens sent to the WHO and NERVSS laboratories of which 606 have been positive or 2.3%. 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.

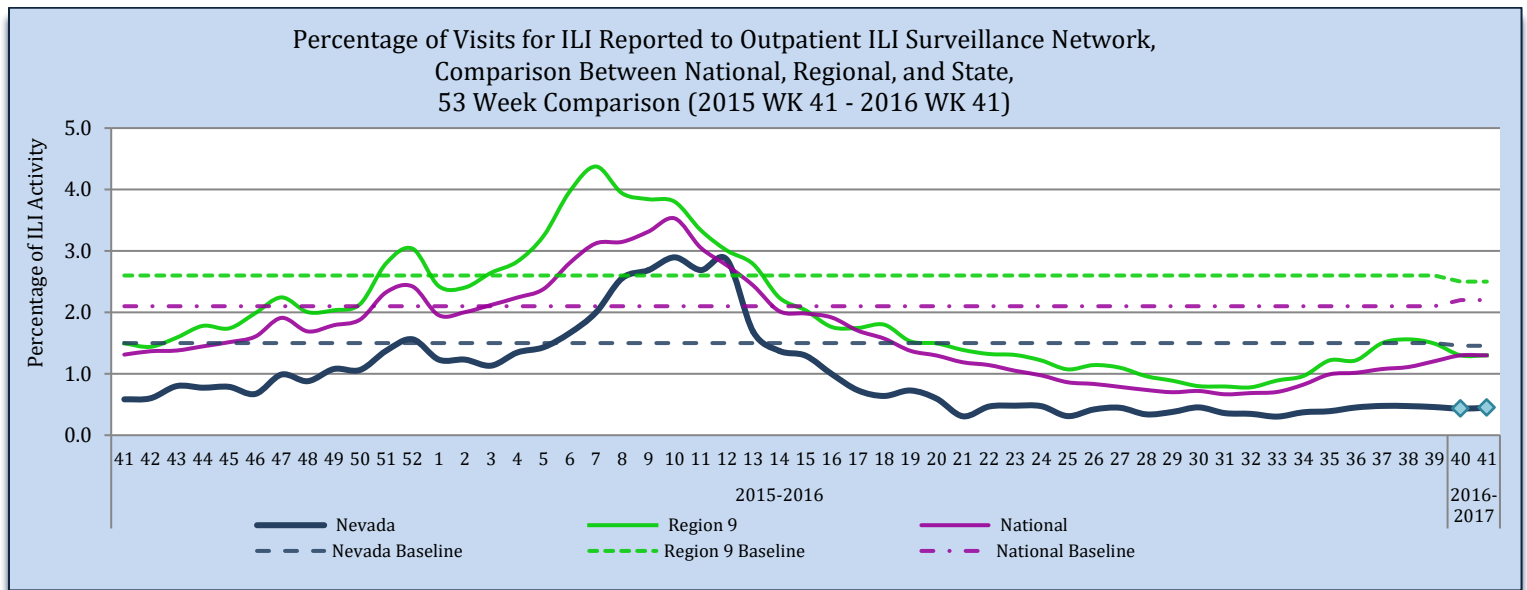
Table 1

ILINet Surveillance: Influenza Specimens Tested State and Nationally										
	NSPHL	SNPHL	State of Nevada (Week 41)		State of Nevada (Season)		National (Week 41)		National (Season)	
			#	%	#	%	#	%	#	%
Specimens Tested	7	8	10		18		14,405		28,349	
Positives to Influenza	2	0	2	20.0	2	11.1	280	1.9	605	2.1
Influenza A:	2	0	2	100	2	100	191	68.2	413	68.2
A (2009 H1N1)	0	0	0	0.0	0	0.0	8	4.2	17	4.1
A (H3)	2	0	2	100	2	100	80	41.9	166	40.2
A (Sub-typing not performed)	0	0	0	0.0	0	0.0	103	53.9	230	55.7
Influenza B:	0	0	0	0.0	0	0.0	89	31.8	192	31.7
B (Victoria Lineage)	0	0	0	0.0	0	0.0	6	6.7	11	5.7
B (Yamagata Lineage)	0	0	0	0.0	0	0.0	5	5.6	8	4.2
B (Sub-typing not performed)	0	0	0	0.0	0	0.0	78	87.6	173	90.1

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 41 is 0.5% and is below the state baseline 1.5%. Region 9 ILI percentage for week 41 is 1.3% and is below the region baseline 2.5%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 41 is 1.3% and is below the national baseline 2.2%.

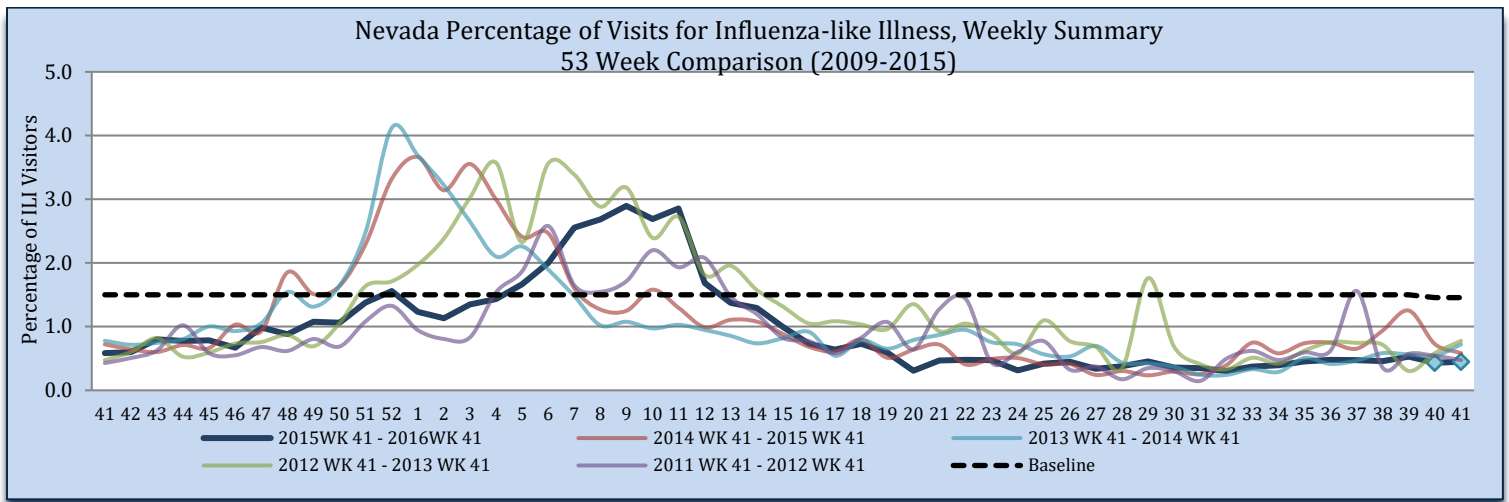
Figure 3



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

During week 41, 0.5% of visits to sentinel providers were due to ILI; this is lower than the 2015-2016 influenza season (.6%). There were 17,850 patients seen by ILI providers during week 41, of which 80 patients presented with ILI; week 41 of 2015, there were 103 patients seen with ILI (17,646 total patients seen).

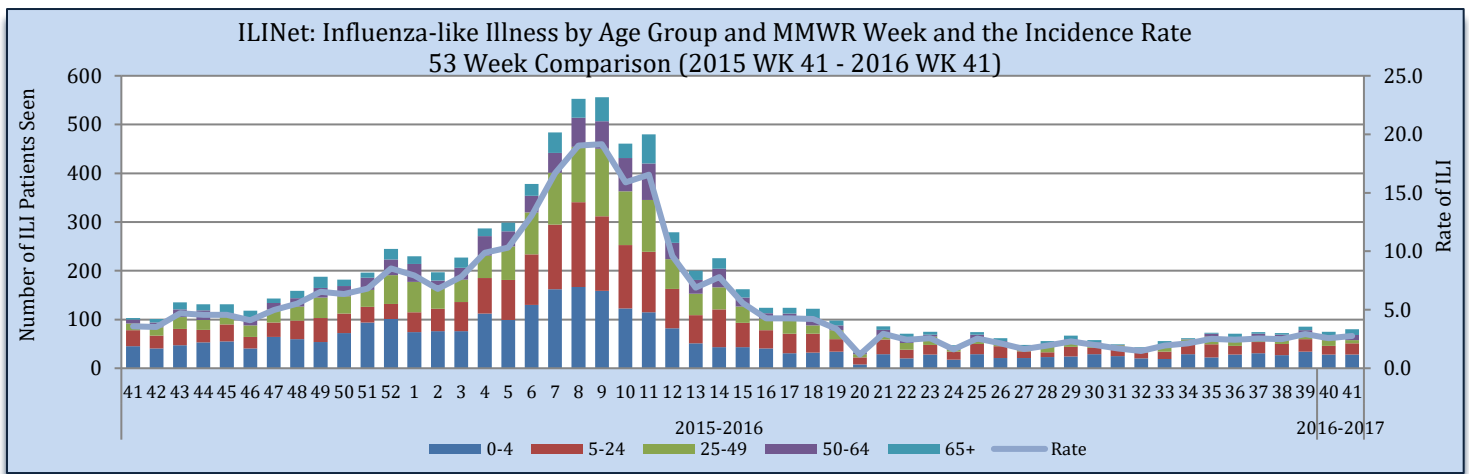
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups, during week 41, patients age 0-4 were the greatest number of patients seen with ILI, at 28 patients seen. The rate for week 41 is 2.8 per 100,000 population. 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 2016 is 2,902,853.

Figure 5



Source of Data: CDC: ILINet.

Influenza Positive Surveillance (NBS and NETSS)

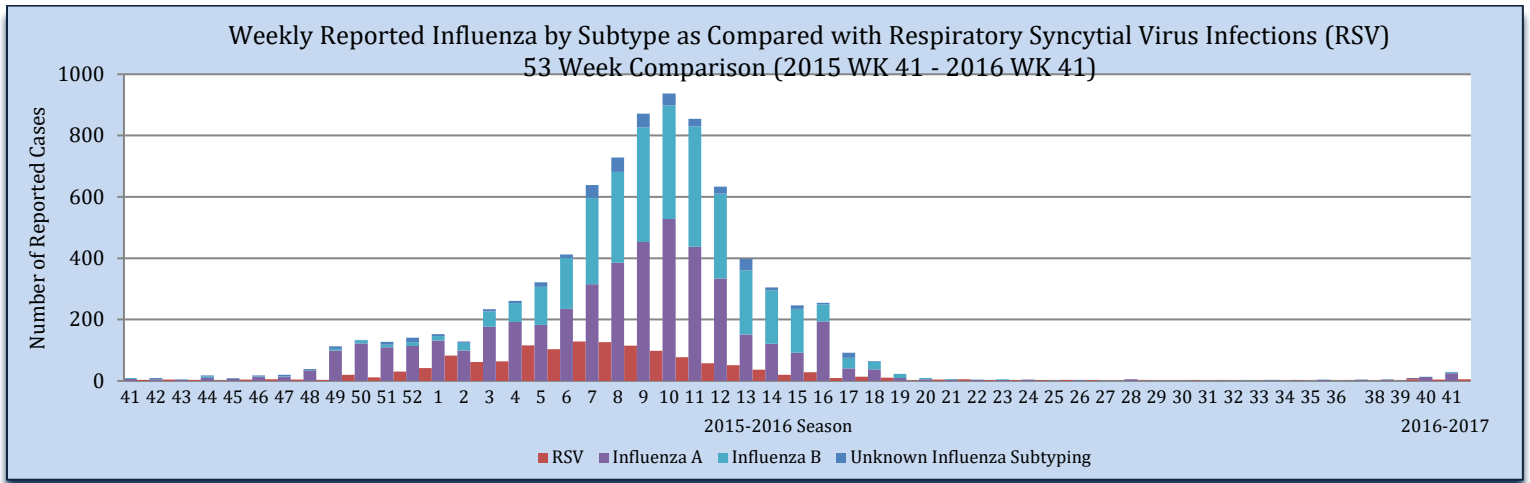
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 6 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 41, there were 29 influenza cases reported to the state, 25 influenza A, and 3 influenza B case.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type							
	Current Week (Week 41)				Cumulative Influenza Season			
	A	B	Unknown	Total	A	B	Unknown	Total
Carson City Health and Human Services	0	0	0	0	3	0	0	3
Rural Community Health Services	9	0	0	9	10	0	0	10
Southern Nevada Health District	8	1	1	10	14	2	1	17
Washoe County Health District	8	2	0	10	11	2	0	13
State of Nevada	25	3	1	29	38	4	1	43

Source: OPHIE: NBS and SNHD: NETSS.

Figure 6



Source of Data: OPHIE: NBS and SNHD: NETSS.

Hospitalizations

There was 1 hospitalization associated with influenza reported to the state health authority for week 41.

Table 3

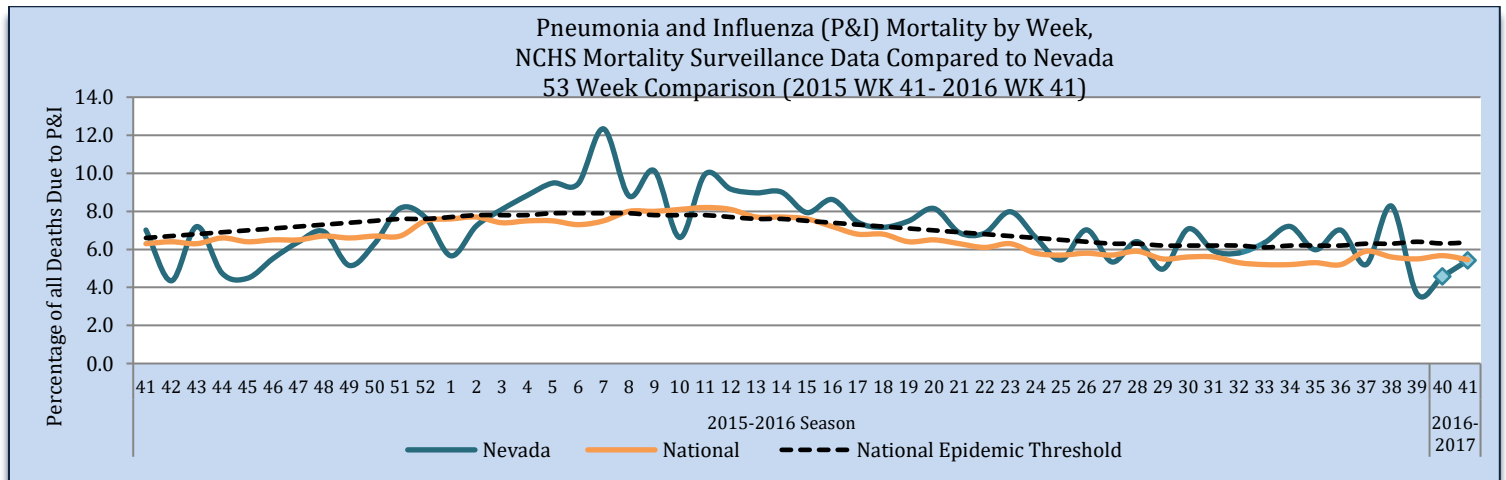
Reporting Jurisdiction	Influenza Hospitalizations			
	Current Week (Week 41)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	0	0.0	0	0.0
Rural Community Health Services	0	0.0	0	0.0
Southern Nevada Health District	1	100	3	100
Washoe County Health District	0	0.0	0	0.0
State of Nevada	1	100	3	100

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. As of November 29, there were 21 P&I deaths and 388 total deaths for week 41 in Nevada. The P&I mortality percent for Nevada is below the threshold at 5.4% (threshold 6.4%). Nationally, the P&I mortality is below the national epidemic threshold at 5.5% for week 41.

Figure 7



Source: OVR: WEVRRS and CDC: FluView.

Technical Notes

- 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.
- Data are subject to changes.

This report contains information from national and state-level data sources. Influenza surveillance data is collected by a 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 transmits 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

1. CDC. FluView: A Weekly Influenza Surveillance Report. <http://www.cdc.gov/flu/weekly/pastreports.htm>.
2. Nevada State Demographer's Office. 2003-2020 ASRHO Estimates and Projections. Division of Public and Behavioral Health edition. Vintage 2015.
3. OPHIE. DPBS. BioSense. 2015-2016. Accessed November 2016.
4. OPHIE. DPBH. NBS. 2015-2016. Accessed November 2016.
5. Office of Vital Records (OVR). DPBH. Web Enabled Vital Records Registry System (WEVRRS) [unpublished data]. 2015-2016. Accessed November 2016.
6. Southern Nevada Health District (SNHD). NETSS/Trisano. 2015-2016. Accessed November 2016.

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