

Weekly Report

2016 Week 5 (January 31 – February 06, 2016) through 2017 Week 5 (January 29 – February 04)

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.

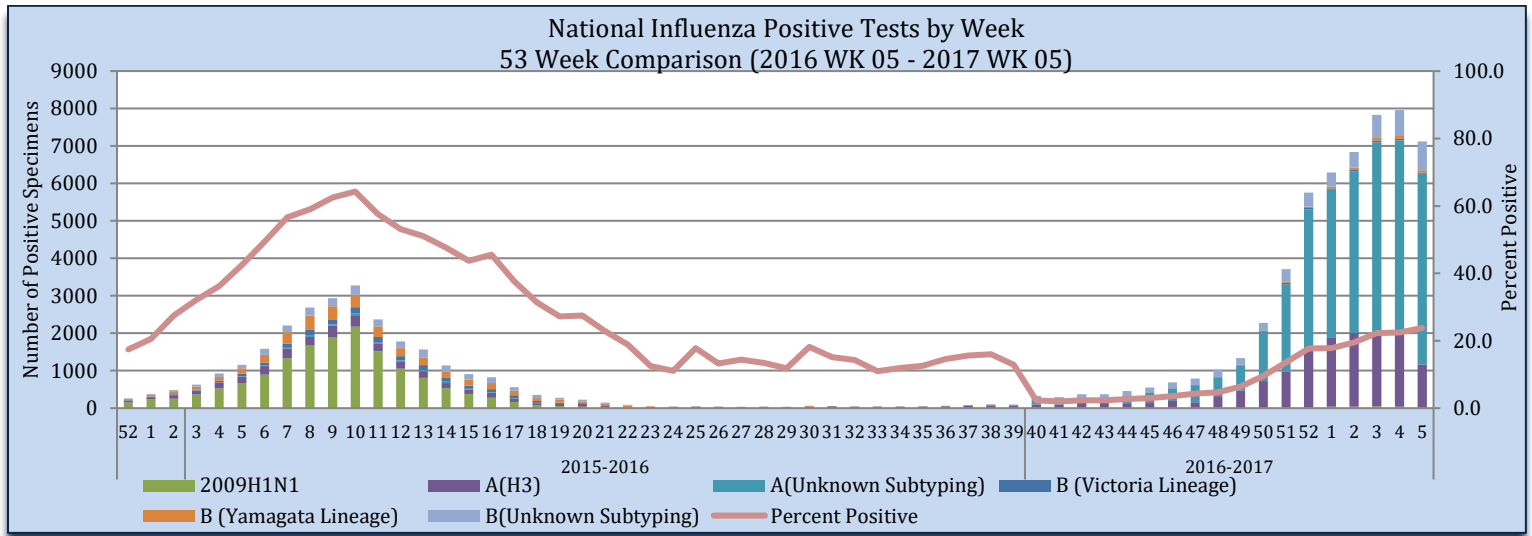
Purpose

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.

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 05, there were 29,878 specimens collected and tested for influenza, of those 7,119 were positive (23.8%).

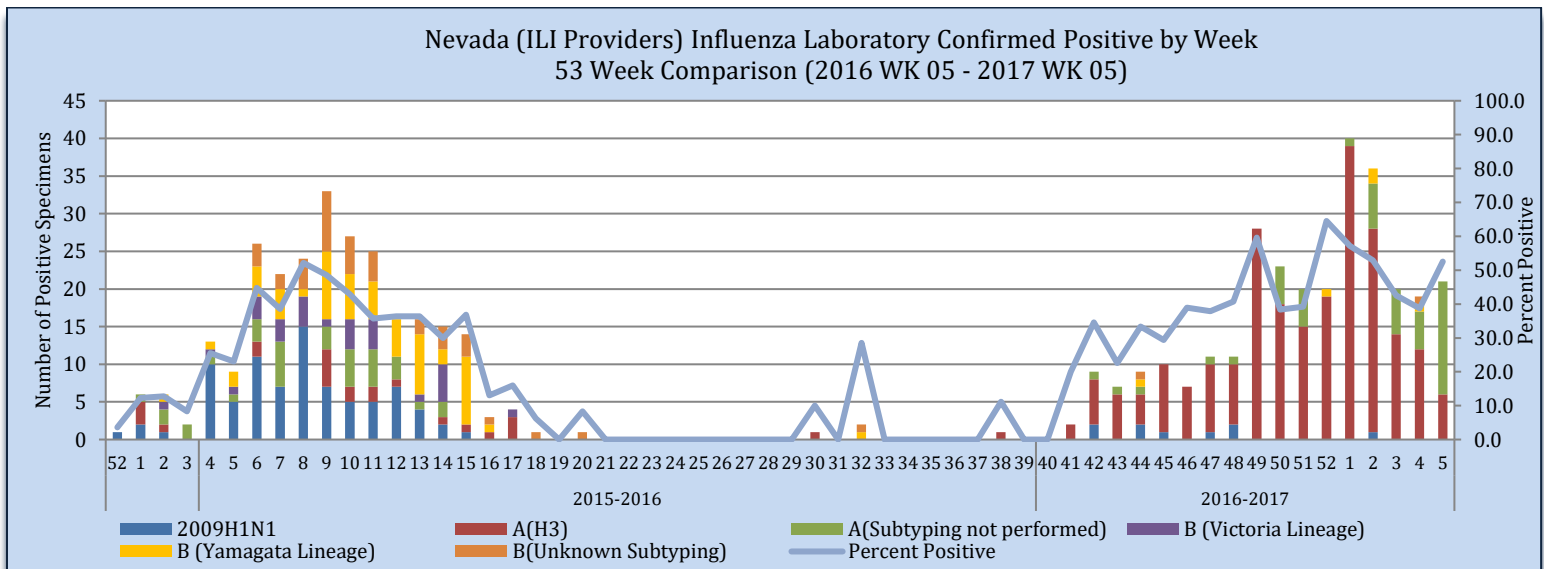
Figure 1



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. During week 05, there were 40 specimens collected and 21 were positive (52.5%). There is a two week delay for laboratory surveillance.

Figure 2



Source of Data: CDC: ILINet.

Nevada State Public Health Laboratory (NSPHL) has tested 266 specimens for influenza from sentinel providers, of which there have been 230 positive (86.5%). Southern Nevada Public Health Laboratory (SNPHL) has tested 49 specimens this season of which there have been 5 positives. Nationally, there have been 431,042 specimens sent to the WHO and NERVSS laboratories of which 54,025 have been positive (12.5%). 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.

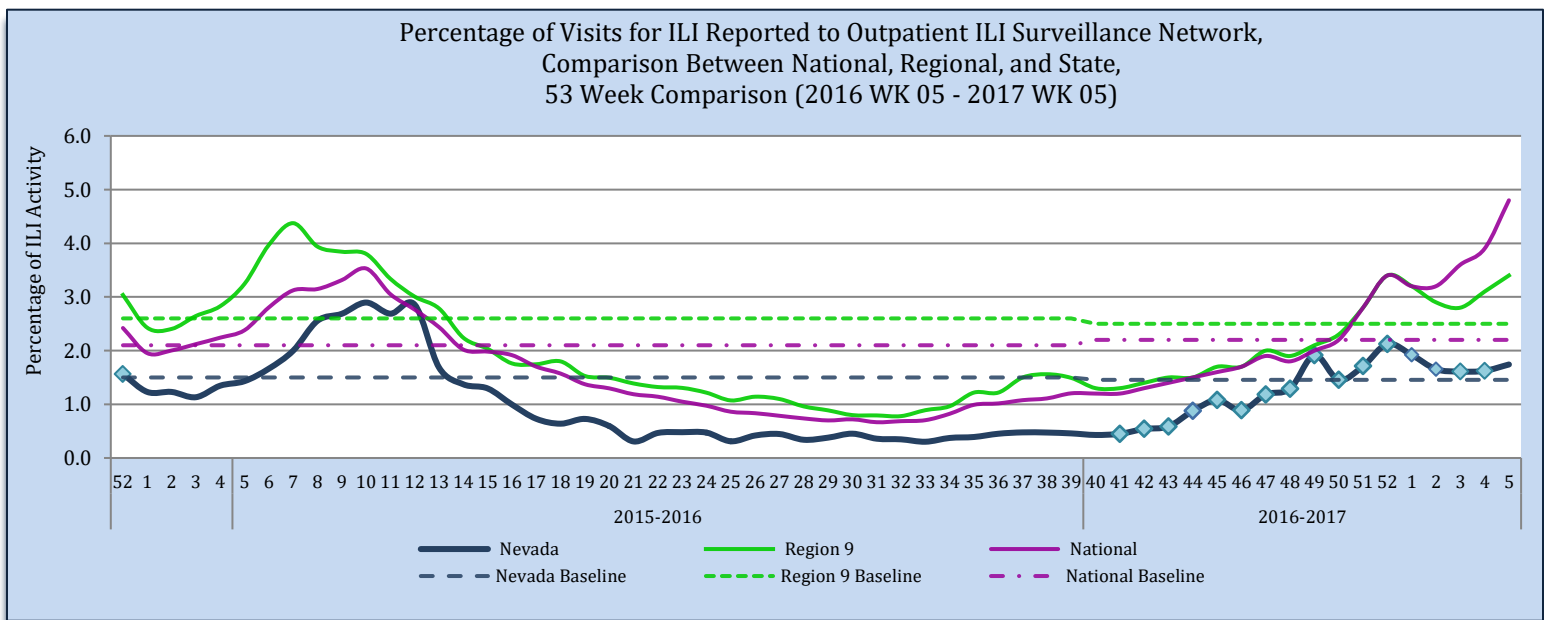
Table 1

	Influenza Specimens Tested State and Nationally through Sentinel Providers										
	NSPHL	SNPHL	All Other Laboratories	State of Nevada (Week 05)		State of Nevada (Season)		National (Week 05)		National (Season)	
				#	%	#	%	#	%	#	%
Specimens Tested	266	49	357	40		672		29,878		431,042	
Influenza Positives	230	5	58	21	52.5	293	43.6	7,119	23.8	54,025	12.5
Influenza A:	226	5	55	21	100	286	97.6	6,262	88.0	48,094	89.0
A (2009 H1N1)	8	0	1	0	0.0	9	3.1	29	0.4	362	0.8
A (H3)	218	5	6	6	28.6	229	80.1	1,142	18.2	13,973	29.1
A (Sub-typing not performed)	0	0	48	15	71.4	48	16.8	5,092	81.3	11,759	70.2
Influenza B:	4	0	3	0	0.0	7	2.4	857	12.0	5,931	11.0
B (Victoria Lineage)	0	0	0	0	0.0	0	0.0	29	3.4	391	6.6
B (Yamagata Lineage)	4	0	1	0	0.0	5	71.4	65	7.6	460	7.8
B (Sub-typing not performed)	0	0	2	0	0.0	2	28.6	763	89.0	5,080	85.7

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 05 is 1.7% which is above the state baseline of 1.5%. Region 9 ILI percentage for week 05 is 3.4% which is above the region baseline 2.5%. Region 9 includes the following states/territory: Arizona, California, Guam, Hawaii, and Nevada. The national ILI percentage for week 05 is 4.8% which is above the national baseline 2.2%.

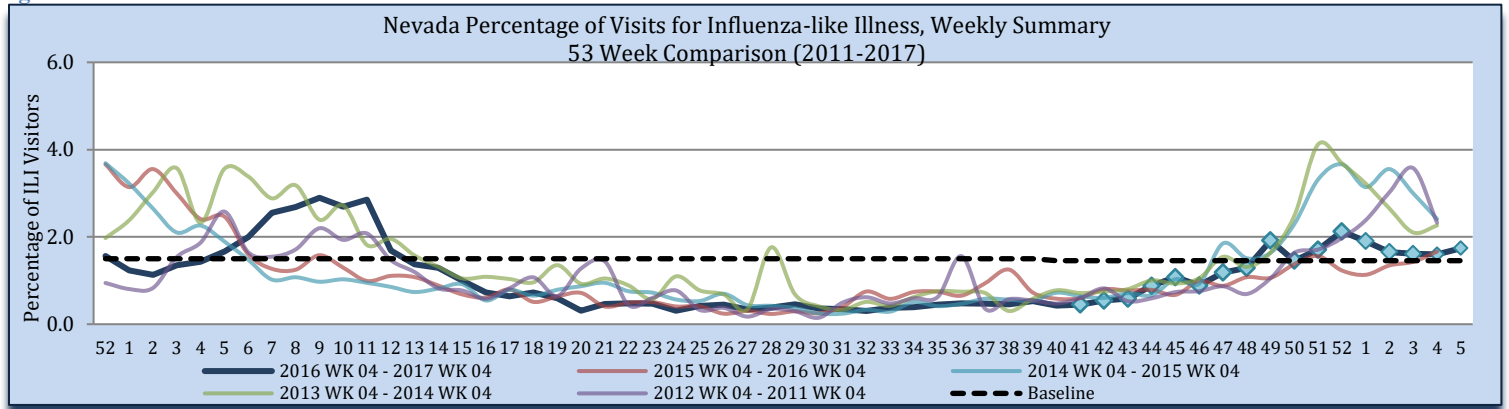
Figure 3



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

During week 05, 1.7% of visits to sentinel providers were due to ILI; this is the same as the 2015-2016 influenza season (1.7%). There were 18,600 patients seen by sentinel providers during week 05, of which 324 patients presented with ILI; week 05 of 2016, there were 299 patients seen with ILI (17,973 total patients seen).

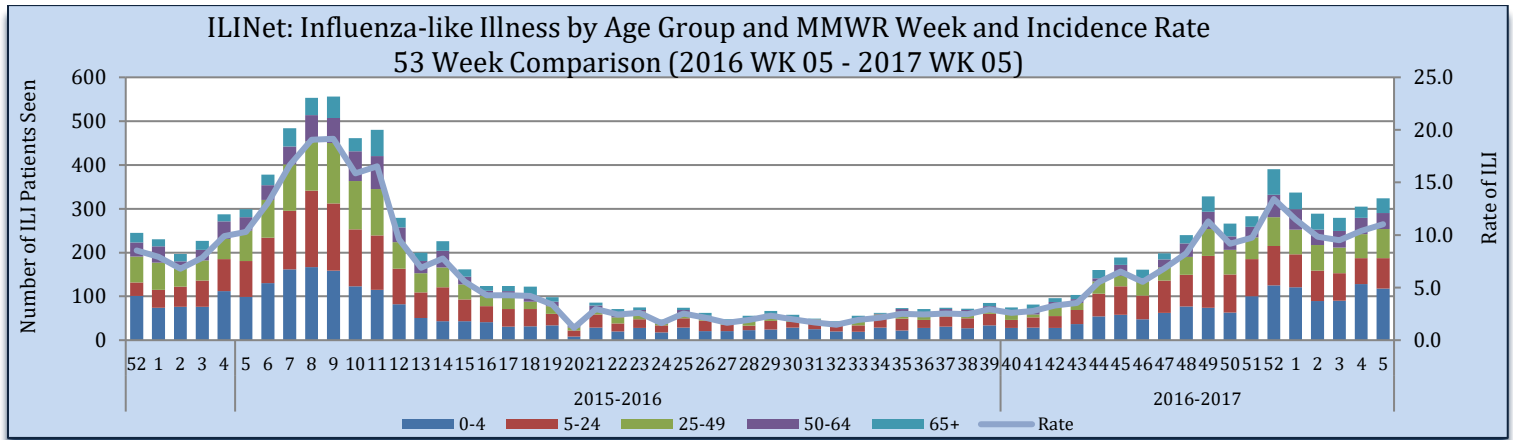
Figure 4



Source of Data: CDC: ILINet.

Influenza-like Illness is reported by age groups. During week 05, patients age 0-4 were the greatest number of patients seen with ILI, at 118 patients seen. The rate for week 05 is 11.0 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 2017 is 2,935,490.

Figure 5



Source of Data: CDC: ILINet.

Influenza Positive Surveillance (NBS and NETSS)

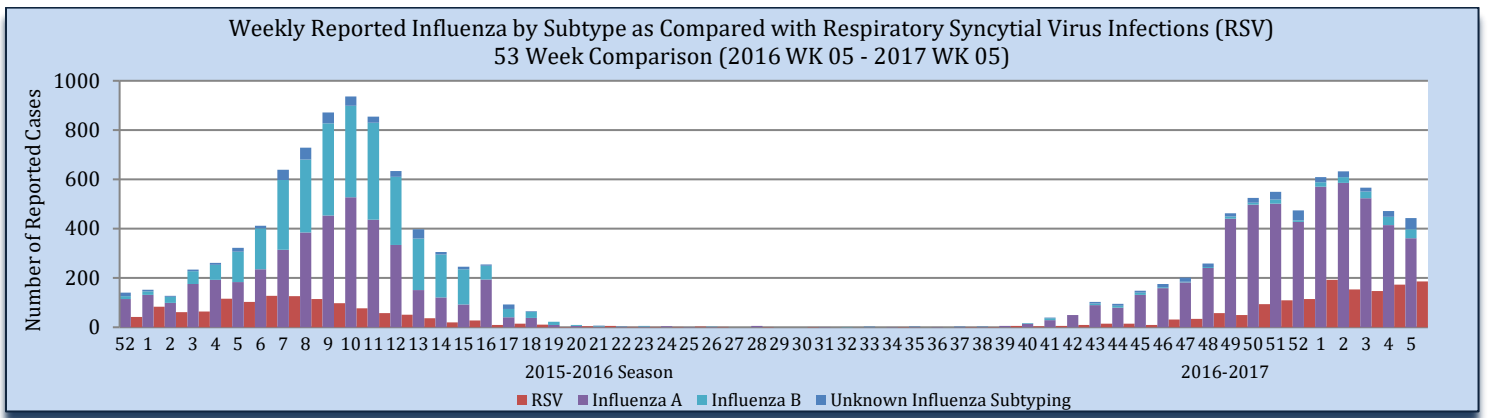
Positive cases of influenza are reported to the state health authority for surveillance purposes. Table 2 and Figure 6 reflect all positive influenza cases reported to the state. Types of influenza testing include commercial rapid diagnostic test (rapid), viral culture, fluorescent antibody, enzyme immunoassay, RT-PCR (PCR), and Immunohistochemistry. The two most common test types in Nevada are Rapid and PCR tests. During week 05, there were 431 influenza cases reported to the state, 361 influenza A, 37 influenza B and 45 unknown subtyping.

Table 2

Reporting Jurisdiction	Reported Influenza Cases by County Jurisdiction and Influenza Type							
	Current Week (Week 05)				Cumulative Influenza Season			
	A	B	Unknown	Total	A	B	Unknown	Total
Carson City Health and Human Services	17	0	0	17	724	2	2	728
Rural Community Health Services	36	4	5	45	491	21	29	541
Southern Nevada Health District	265	30	36	331	2,318	157	148	2,623
Washoe County Health District	43	3	4	50	1,762	44	125	1,931
State of Nevada	361	37	45	443	5,295	224	304	5,823

Source: OPHIE: NBS and SNHD: NETSS.

Figure 6



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

Hospitalizations

There were 16 hospitalization associated with influenza reported to the state health authority for week 05.

Table 3

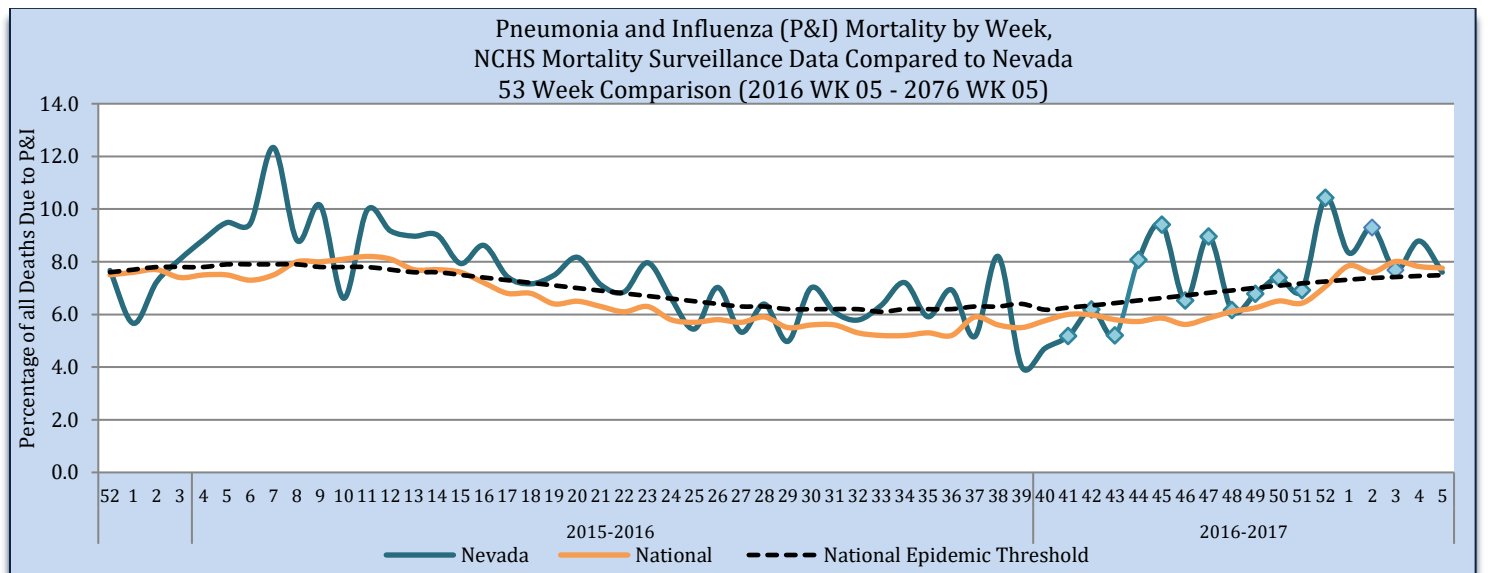
Reporting Jurisdiction	Influenza Hospitalizations			
	Current Week (Week 05)		Cumulative Influenza Season	
	#	%	#	%
Carson City Health and Human Services	1	6.3	29	6.9
Rural Community Health Services	4	25.0	11	2.6
Southern Nevada Health District	5	31.3	134	31.8
Washoe County Health District	6	37.5	247	58.7
State of Nevada	16	100	421	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 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 February 23rd, there were 26 P&I deaths and 342 total deaths for week 05 in Nevada.

Figure 7



Source: OVR: WEVRRS 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 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. DPBH. NBS. 2015-2017. Accessed February 2017.
4. Office of Vital Records (OVR). DPBH. Web Enabled Vital Records Registry System (WEVRRS) [unpublished data]. 2015-2017. Accessed February 2017.
5. Southern Nevada Health District (SNHD). NETSS/Trisano. 2015-2017. Accessed February 2017.

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