

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Weeks #40-41: October 1, 2017 – October 14, 2017

Date: Wednesday, October 18, 2017
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPPH)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 80 patients with influenza-like-illness (ILI) for week ending October 7, 2017 (week 40) and 78 patients with ILI for week ending October 14, 2017 (week 41). The percentage of persons seen with ILI by the twelve providers for both weeks was 1.2% which is below the regional baseline of 2.4%. During week 40, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.1%. Nationwide during week 40 the percentage of visits to sentinel providers due to ILI was 1.4% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.4% to 2.1%. All ten regions reported a proportion of outpatient visits for ILI below their region-specific baseline levels.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

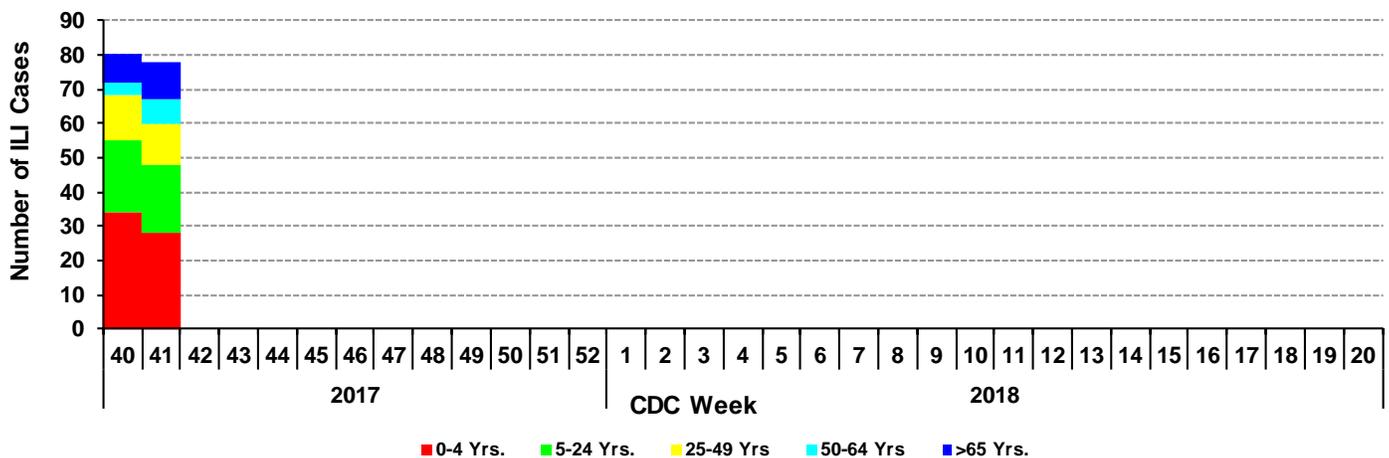
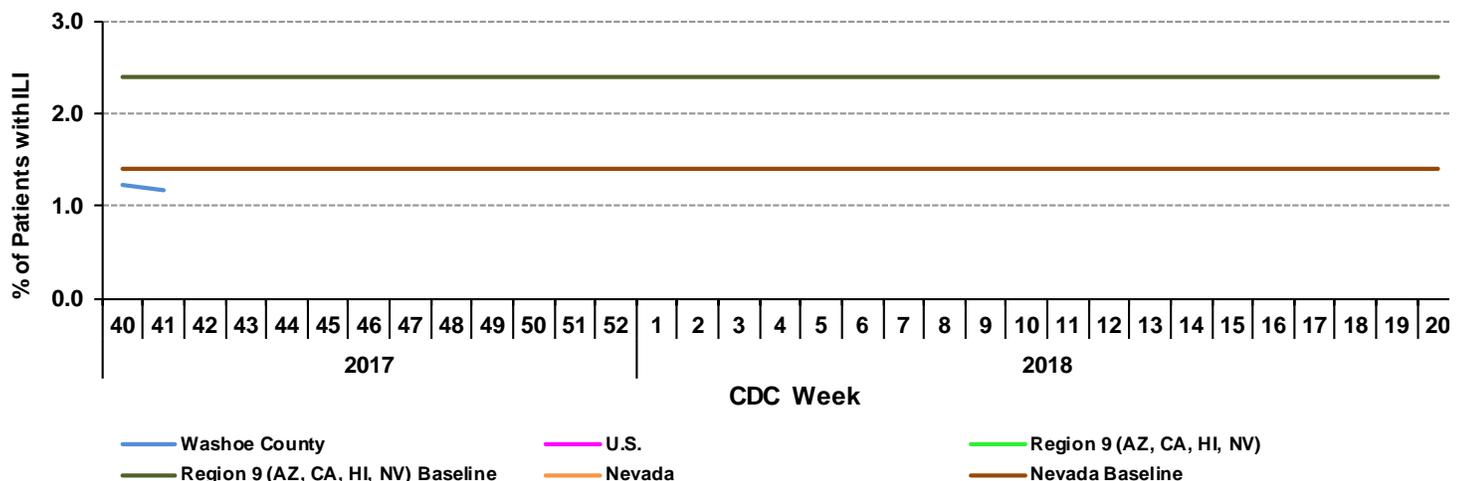
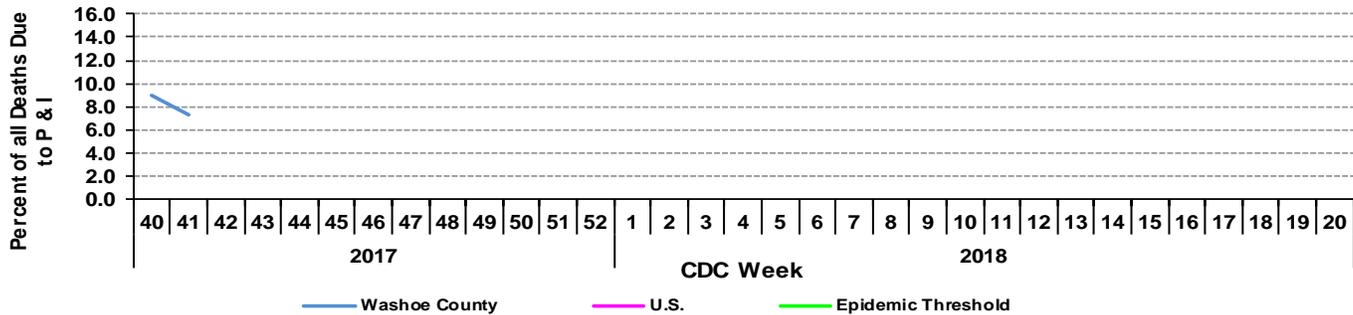


Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality: Eight death certificates were received for week 40 and six death certificates were received for week 41 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 40 was 89 and the total number of deaths for week 41 was 82. This reflects a P&I ratio of 9.0% for week 40 and 7.3% for week 41. The national P&I for weeks 40 and 41 are not yet available. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 14. This reflects an overall P&I ratio of 8.2% (14/171).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results: Weekly Testing Results:

Week #	# Specimens Submitted	Results
40-41	1	A(H3)

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
1	1	0	0	0

Washoe County Total: 25 Influenza type A: 17 Influenza type B: 5 Influenza unk type: 3

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 41) October 8, 2017 - October 14, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - October 14, 2017									
	Total		Hospitalized		Vax [§]		ICU		Death		Total		Hospitalized		Vax [§]		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	14	2	14.3	0	0.0	0	0.0	0	0.0	0	0.0	25	4	16.0	0	0.0	0	0.0	0	0.0
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1	1	25.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza A (seasonal H3)	1	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza A (not subtyped)	1	1	50.0	0	0.0	0	#DIV/0!	0	#DIV/0!	2	2	50.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza A (RIDT*)	6	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	13	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza B (RIDT*)	5	1	50.0	0	0.0	0	#DIV/0!	0	#DIV/0!	5	1	25.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza B (non-RIDT**)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza (unknown type, RIDT*)	1	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	3	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

§Vaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

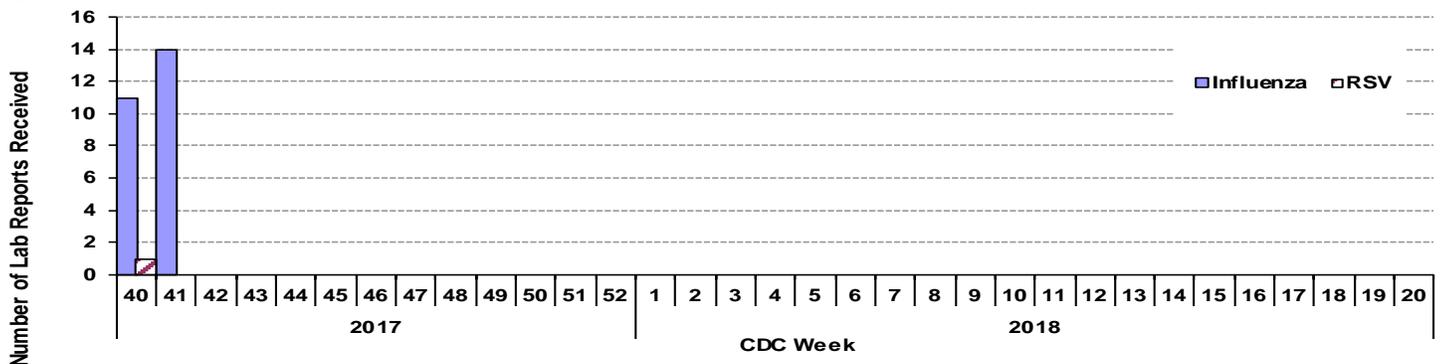


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

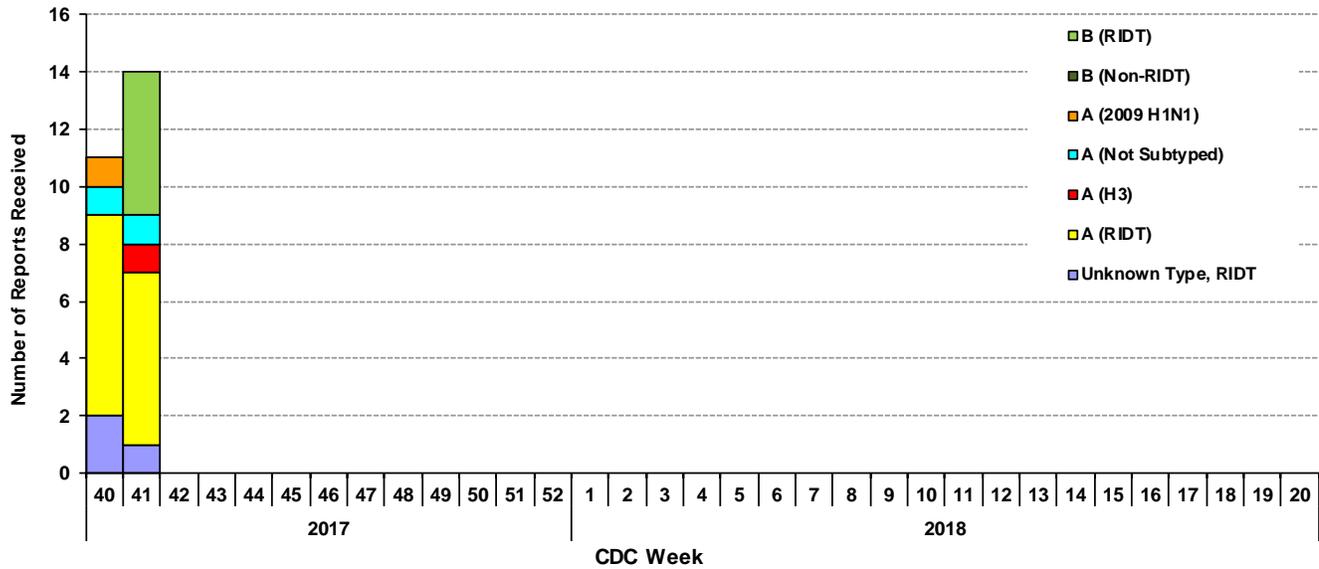


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

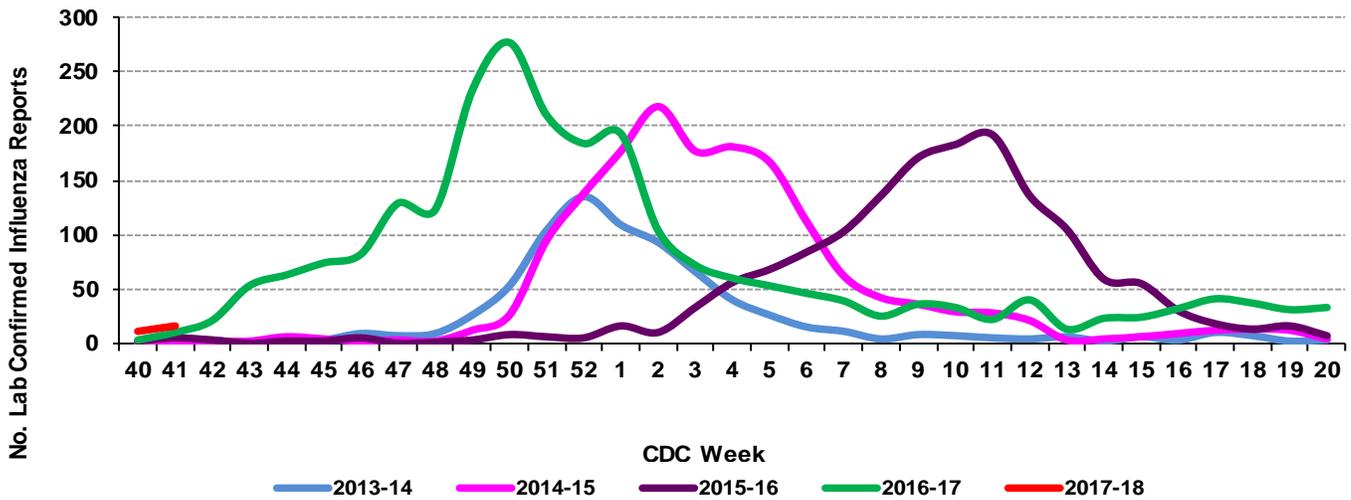
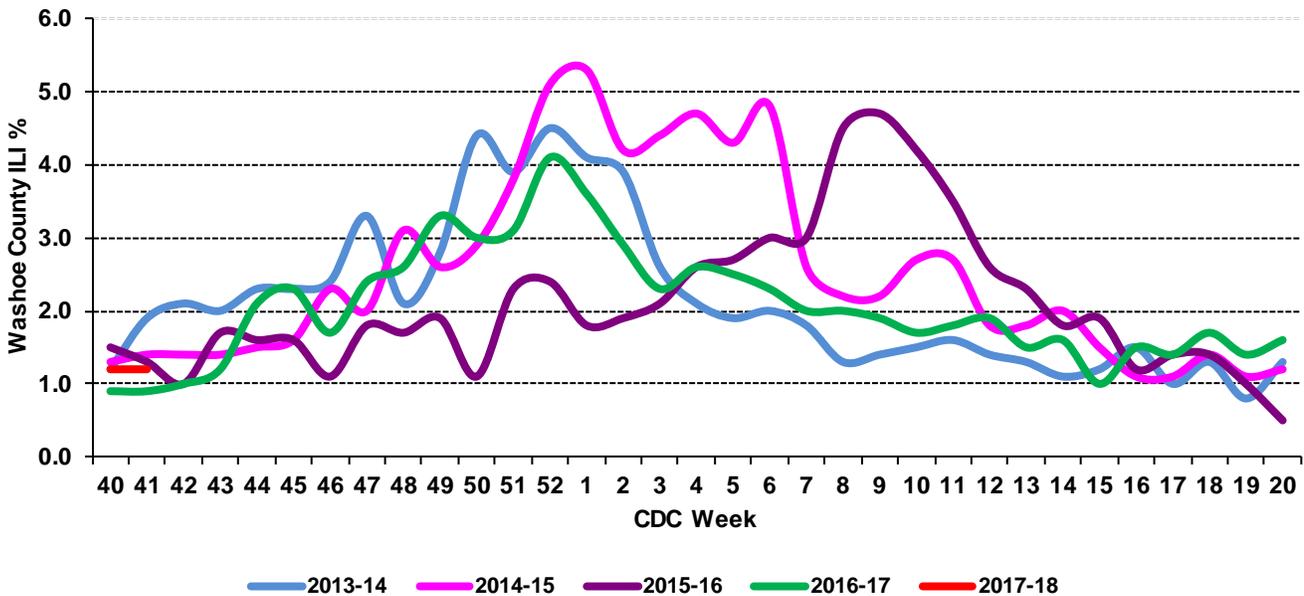
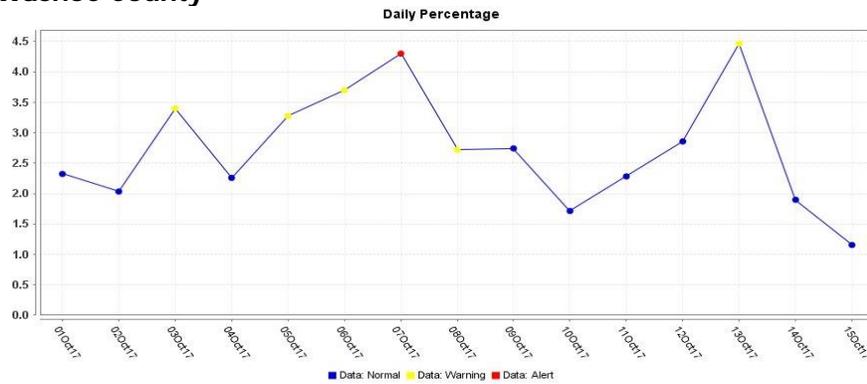


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

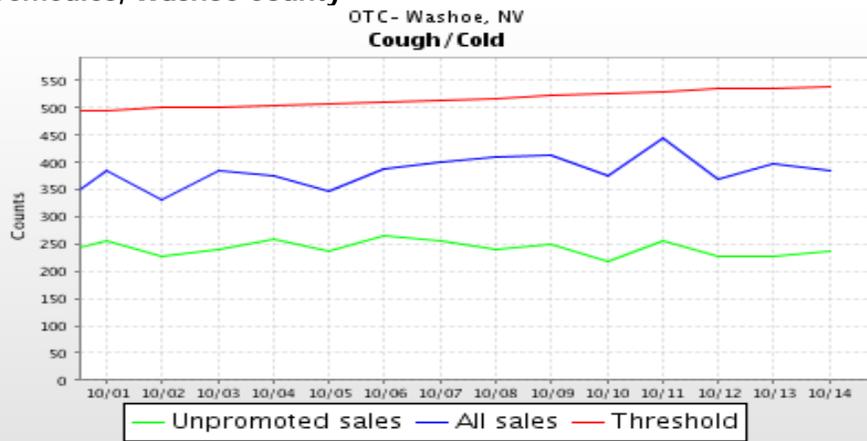
Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County



Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms. (Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

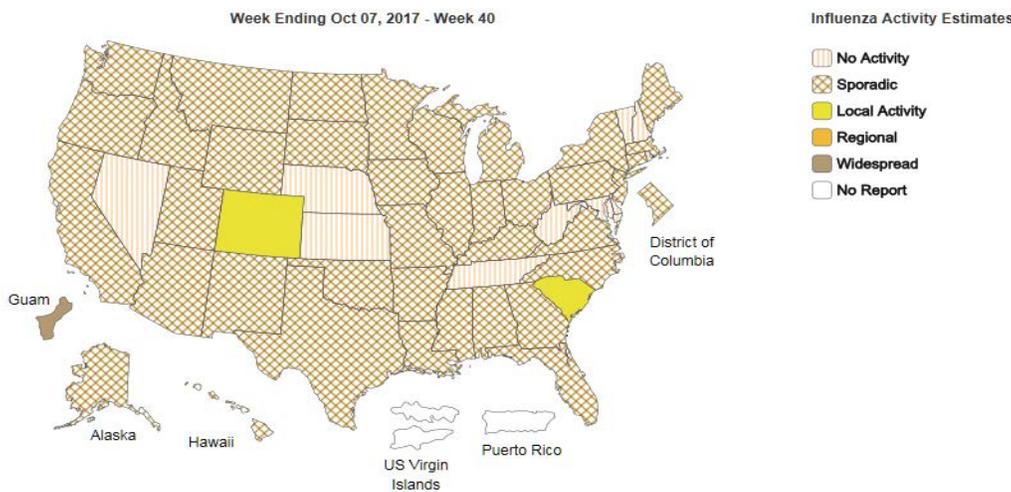


Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 40, the following influenza activity was reported::

- Widespread influenza activity was reported by Guam.
- Local influenza activity was reported by two states (Colorado and South Carolina).
- Sporadic influenza activity was reported by the District of Columbia and 38 states (Alaska, Alabama, Arizona, Arkansas, California, Connecticut, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, South Dakota, Texas, Utah, Virginia, Washington, Wisconsin, and Wyoming).
- No activity was reported by 10 states (Delaware, Kansas, Maryland, Nebraska, Nevada, New Hampshire, Rhode Island, Tennessee, Vermont, and West Virginia,).
- Puerto Rico and the U.S. Virgin Islands did not report.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #42: October 15, 2017 – October 21, 2017

Date: Wednesday, October 25, 2017
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPPH)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 90 patients with influenza-like-illness (ILI) for week ending October 21, 2017 (week 42). The percentage of persons seen with ILI by the twelve providers was 1.3% (90/6888) which is below the regional baseline of 2.4%. During week 41, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.0%. Nationwide during week 41 the percentage of visits to sentinel providers due to ILI was 1.3% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.5% to 2.2%. All ten regions reported a proportion of outpatient visits for ILI below their region-specific baseline levels.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

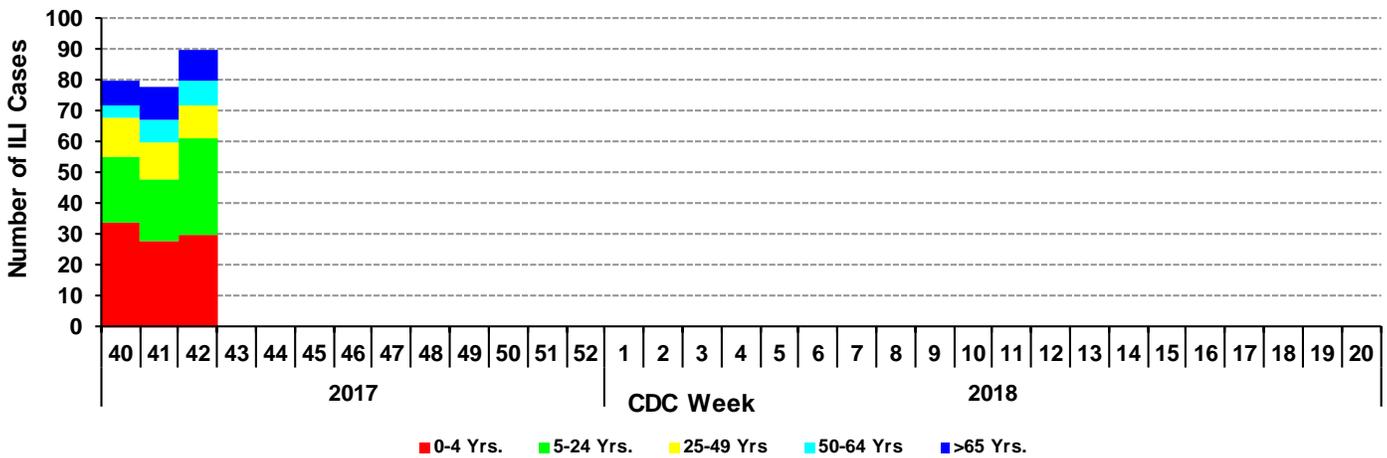
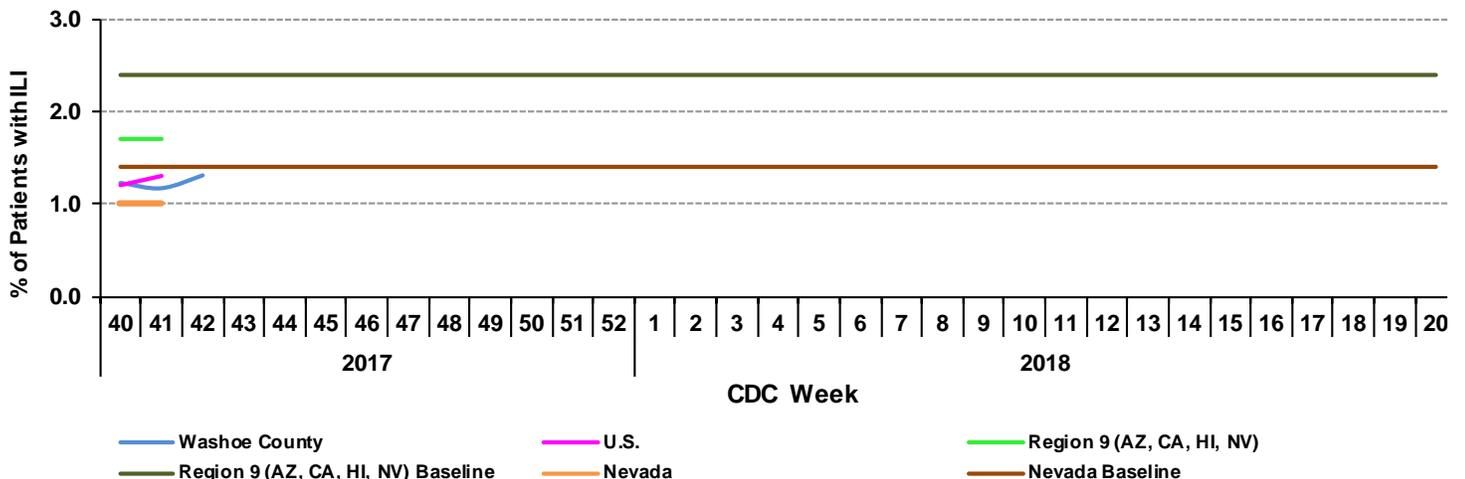


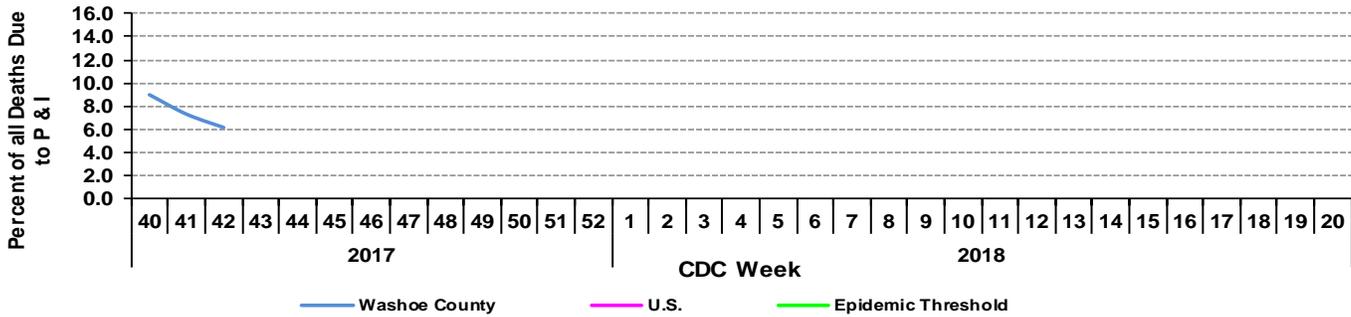
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Five death certificates were received for week 42 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 42 was 81. This reflects a P&I ratio of 6.2% for week 42. The national P&I for weeks 40-42 are not yet available. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 19. This reflects an overall P&I ratio of 7.5% (19/252).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
42	1	Negative

Total specimens	Influenza type A	Influenza type B	Negative	Pending
2	1	0	1	0

Washoe County Total: 46 Influenza type A: 34 Influenza type B: 8 Influenza unk type: 4

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 42) October 15, 2017 - October 21, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - October 21, 2017									
	Total		Hospitalized		Vax [§]		ICU		Death		Total		Hospitalized		Vax [§]		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	21	2	9.5	0	0.0	0	0.0	0	0.0	0	0.0	46	6	13.0	0	0.0	0	0.0	0	0.0
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1	1	16.7	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza A (seasonal H3)	3	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	4	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza A (not subtyped)	5	2	100.0	0	0.0	0	#DIV/0!	0	#DIV/0!	7	4	66.7	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza A (RIDT*)	9	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	22	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza B (RIDT*)	3	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	8	1	16.7	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza B (non-RIDT**)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza (unknown type, RIDT*)	1	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	4	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

§Vaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

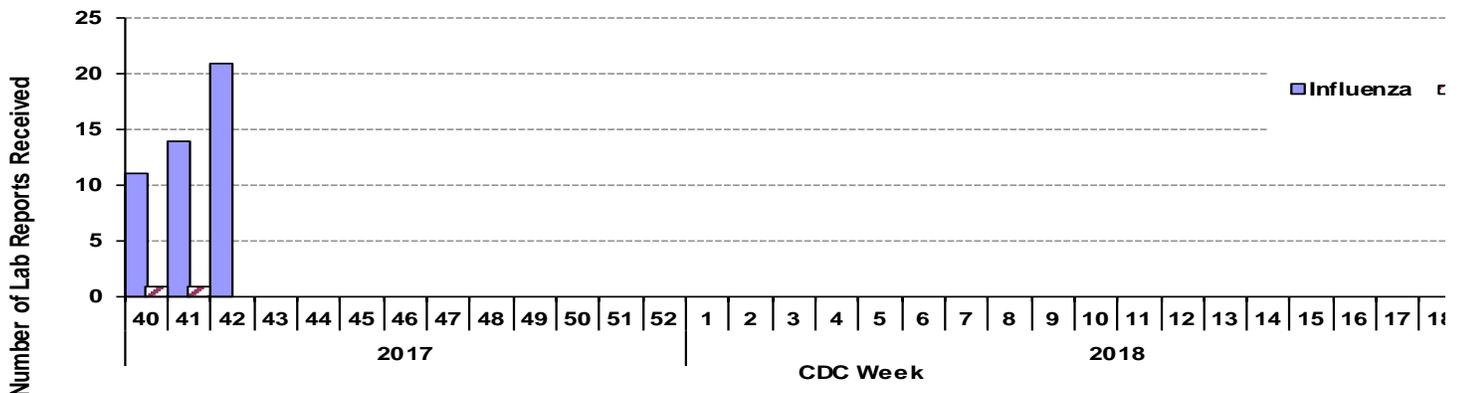


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

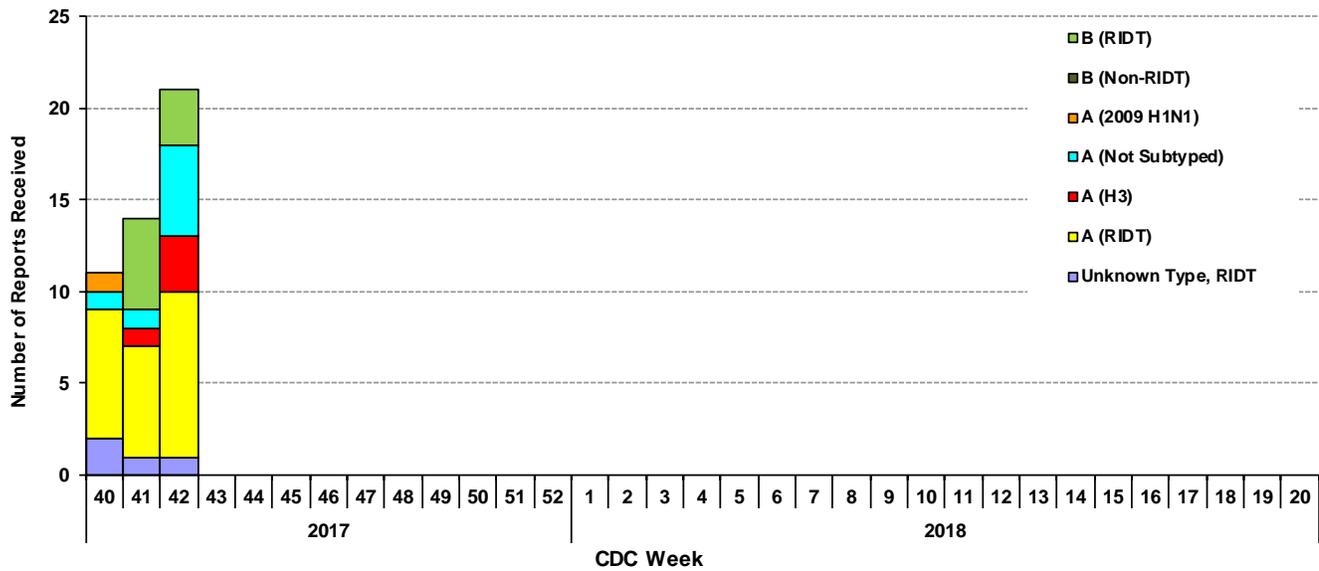


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

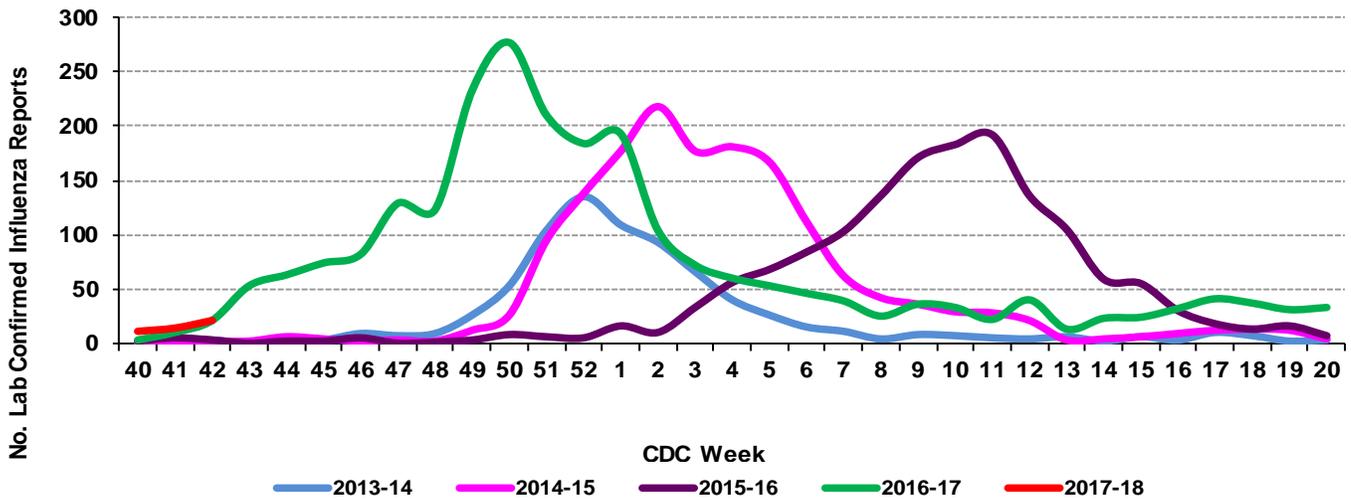
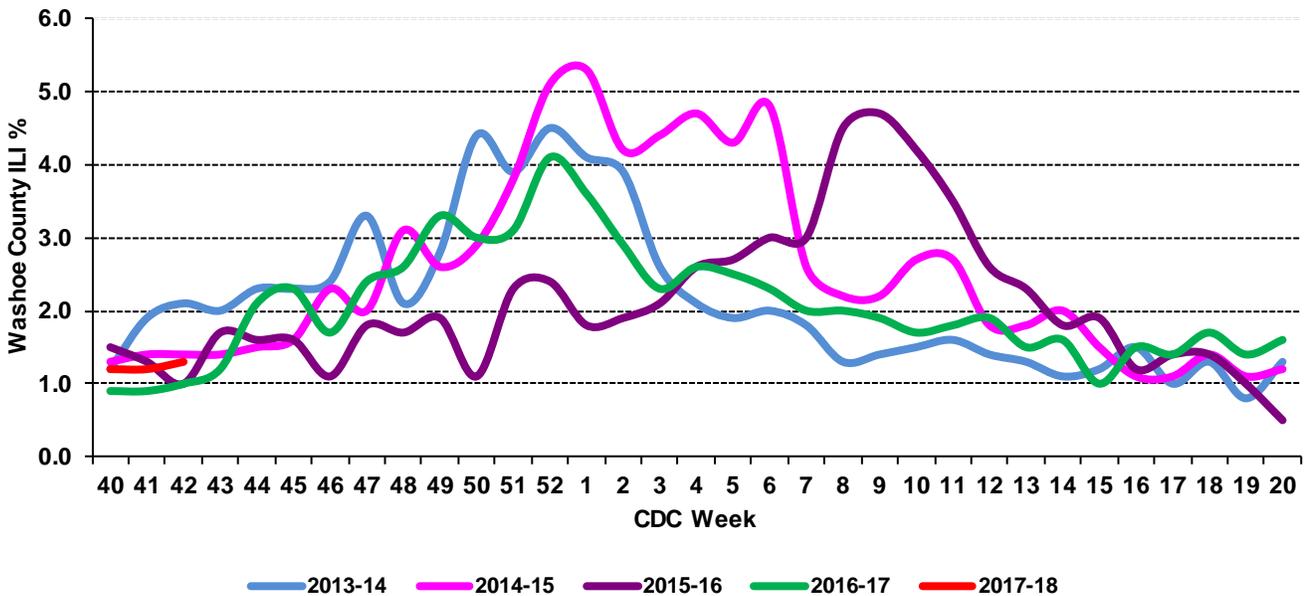
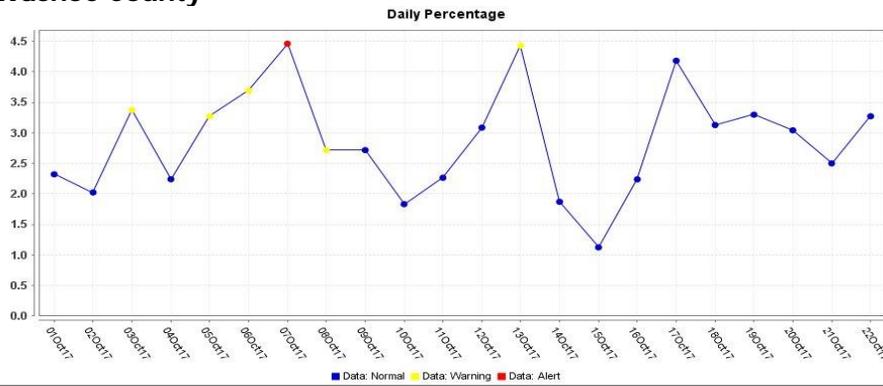


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

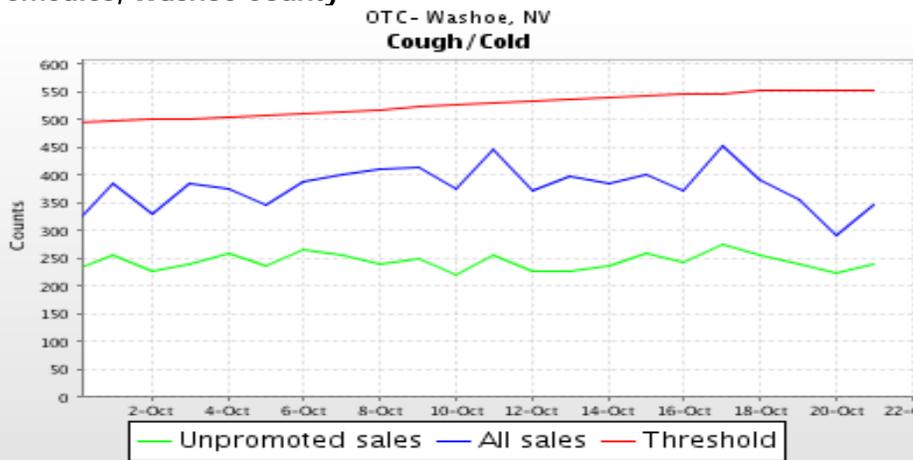


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

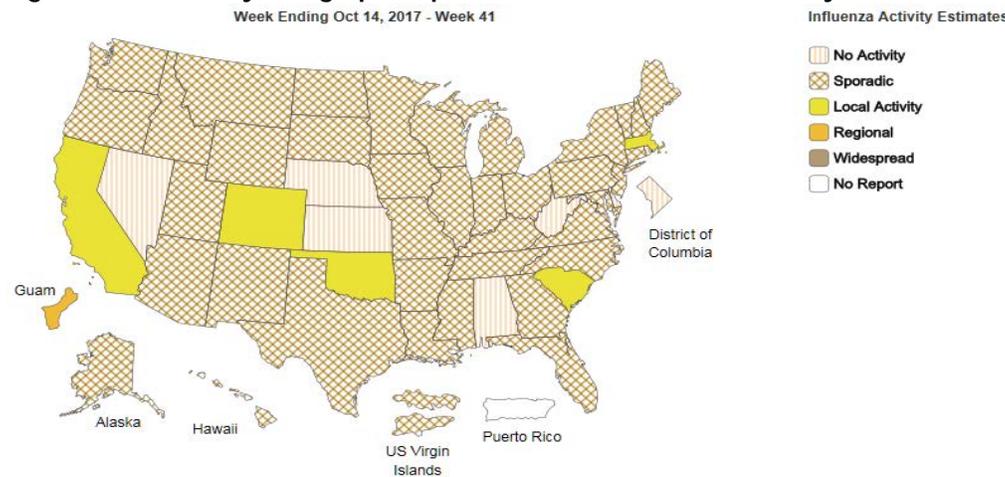


Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 41, the following influenza activity was reported::

- Regional influenza activity was reported by Guam.
- Local influenza activity was reported by five states (California, Colorado, Massachusetts, Oklahoma and South Carolina).
- Sporadic influenza activity was reported by the U.S. Virgin Islands and 38 states (Alaska, Arizona, Arkansas, Connecticut, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kentucky, Louisiana, Maine, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, Wisconsin, and Wyoming).
- No activity was reported by the District of Columbia and seven states (Alabama, Delaware, Kansas, Nebraska, Nevada, Rhode Island and West Virginia).
- Puerto Rico did not report.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #43: October 22, 2017 – October 28, 2017

Date: Wednesday, November 1, 2017

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPPH)
775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 90 patients with influenza-like-illness (ILI) for week ending October 28, 2017 (week 43). The percentage of persons seen with ILI by the twelve providers was 1.4% (90/6548) which is below the regional baseline of 2.4%. During week 42, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.2%. Nationwide during week 42 the percentage of visits to sentinel providers due to ILI was 1.3% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.5% to 2.1%. All ten regions reported a proportion of outpatient visits for ILI below their region-specific baseline levels.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

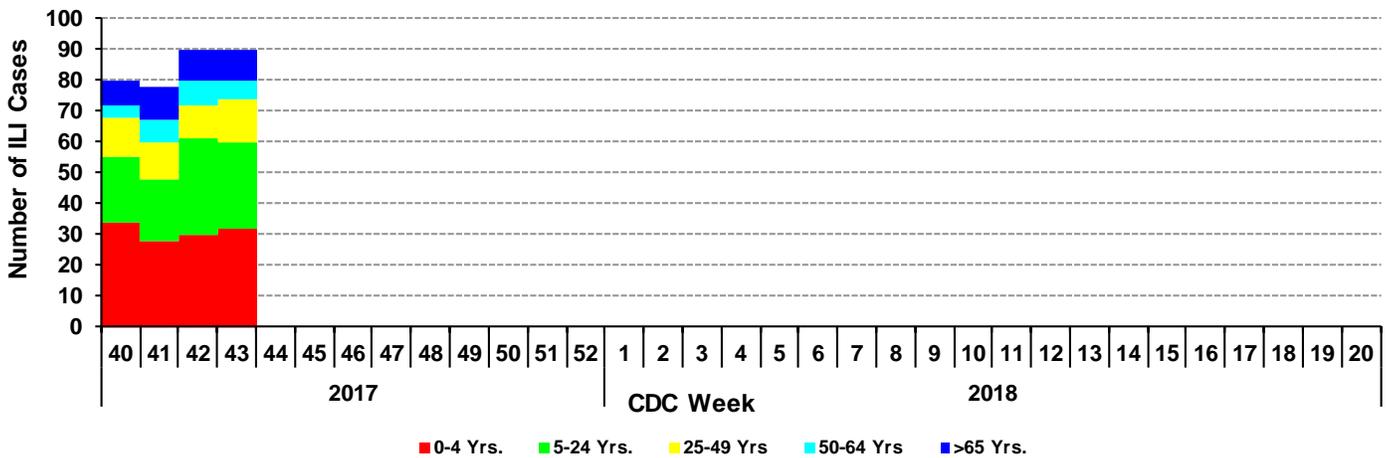
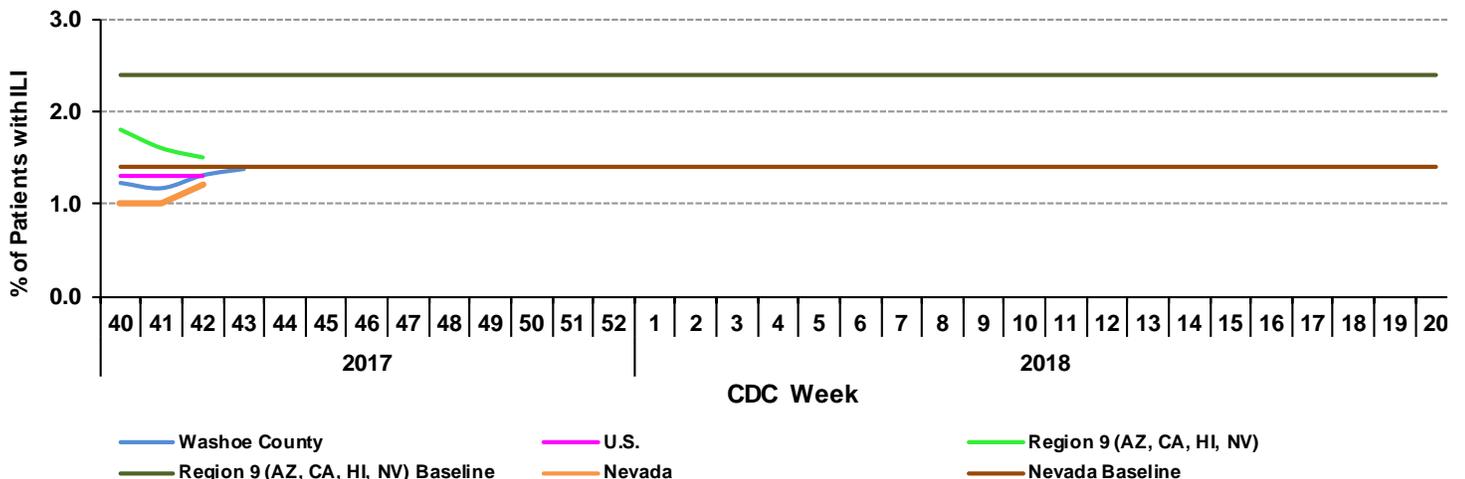


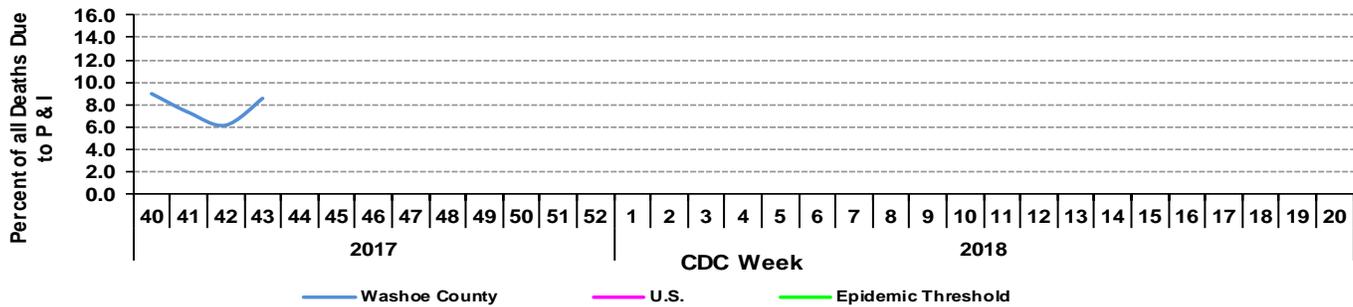
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Six death certificates were received for week 43 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 43 was 70. This reflects a P&I ratio of 8.6% which is above the epidemic threshold set by CDC for week 40 at 6.1%. The national P&I for week 40 was below the epidemic threshold at 5.4%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 25. This reflects an overall P&I ratio of 7.8% (25/322).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
43	0	

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
2	1	0	1	0

Washoe County Total: 82 Influenza type A: 60 Influenza type B: 13 Influenza unk type: 9

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 43) October 22, 2017 - October 28, 2017								Cumulative for 2017-2018 Influenza Season October 1, 2017 - October 28, 2017											
	Total		Hospitalized		Vax [§]		ICU		Death		Total		Hospitalized		Vax [§]		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	36	0	0.0	0	#DIV/0!	0	0.0	0	0.0	0	0.0	82	6	7.3	0	0.0	0	0.0	0	0.0
Influenza A (2009 H1N1)	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1	1	16.7	0	0.0	0	#DIV/0!	0	#DIV/0!
Influenza A (seasonal H3)	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	4	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza A (not subtyped)	3	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	10	4	66.7	0	0.0	0	#DIV/0!	0	#DIV/0!
Influenza A (RIDT*)	23	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	45	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza B (RIDT*)	5	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	13	1	16.7	0	0.0	0	#DIV/0!	0	#DIV/0!
Influenza B (non-RIDT**)	0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!
Influenza (unknown type, RIDT*)	5	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	9	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

§Vaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

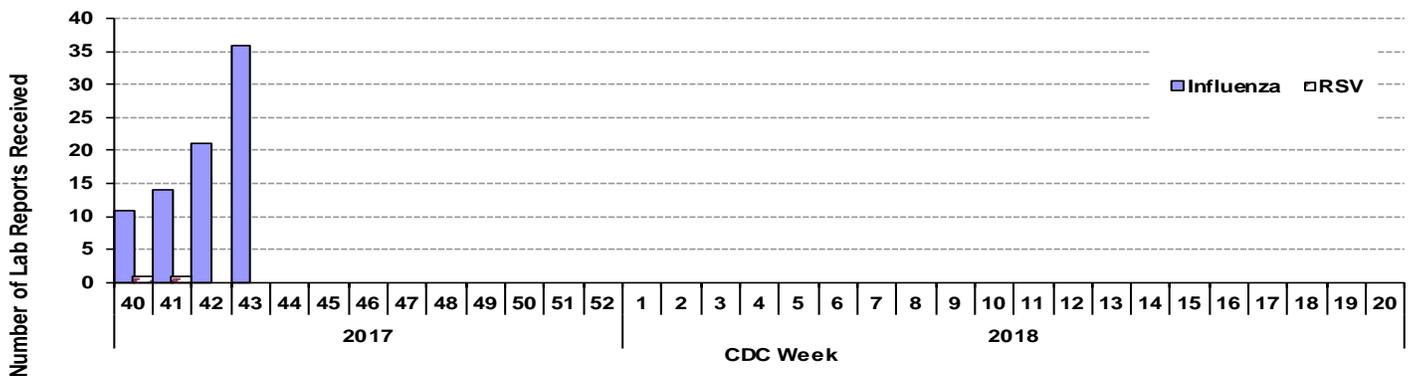


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

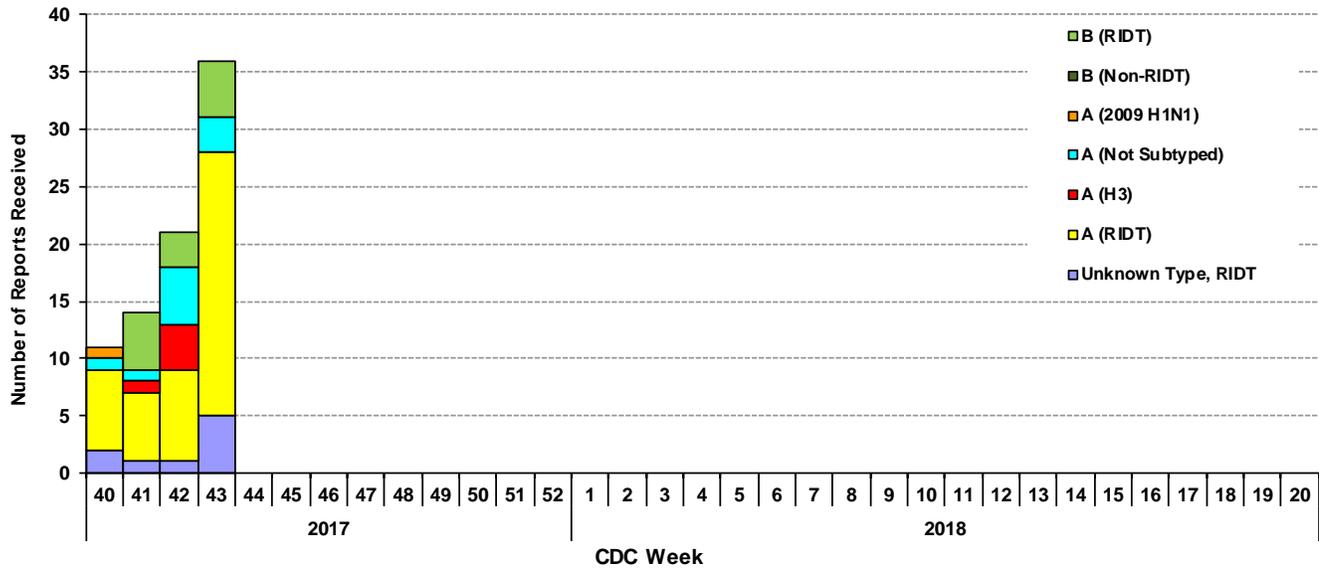


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

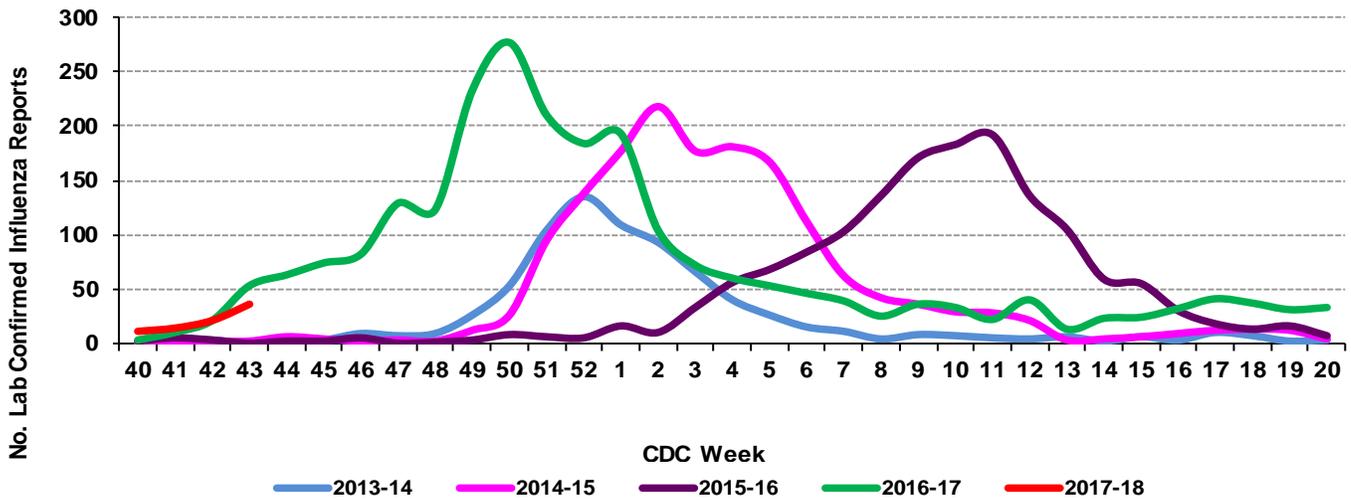
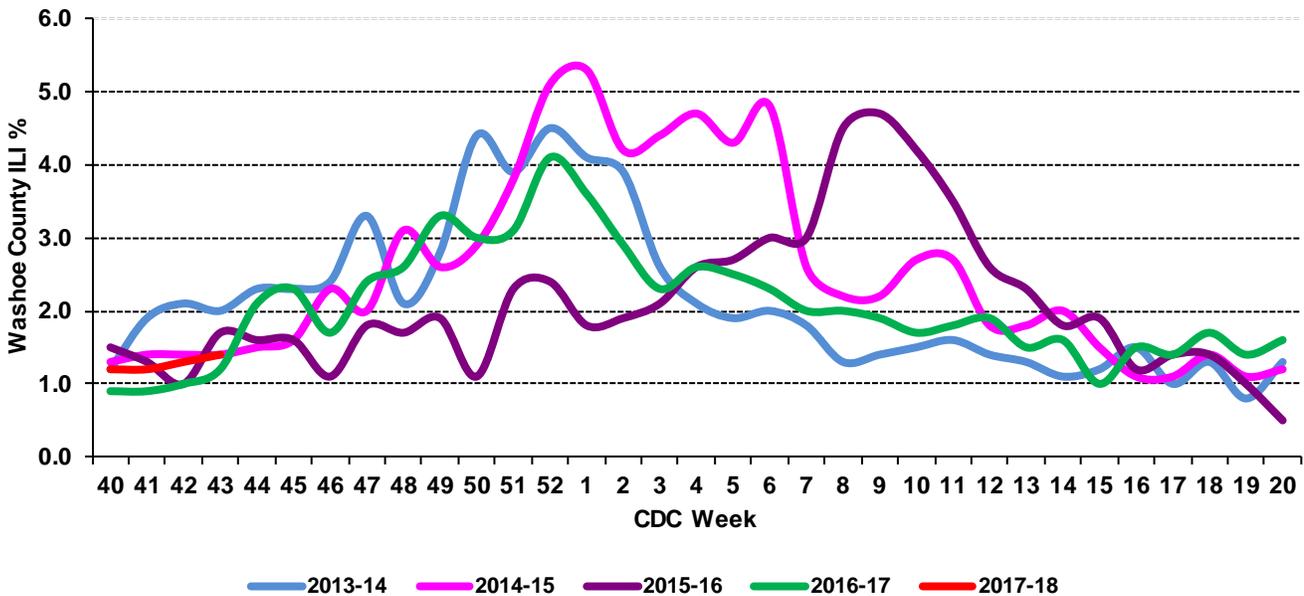
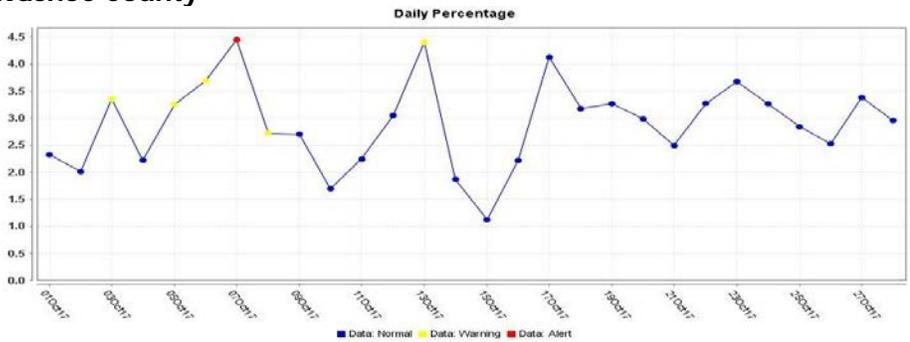


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

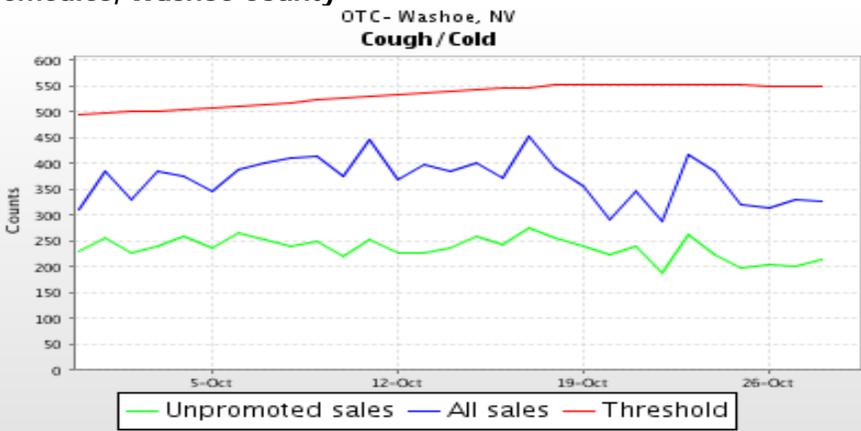


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

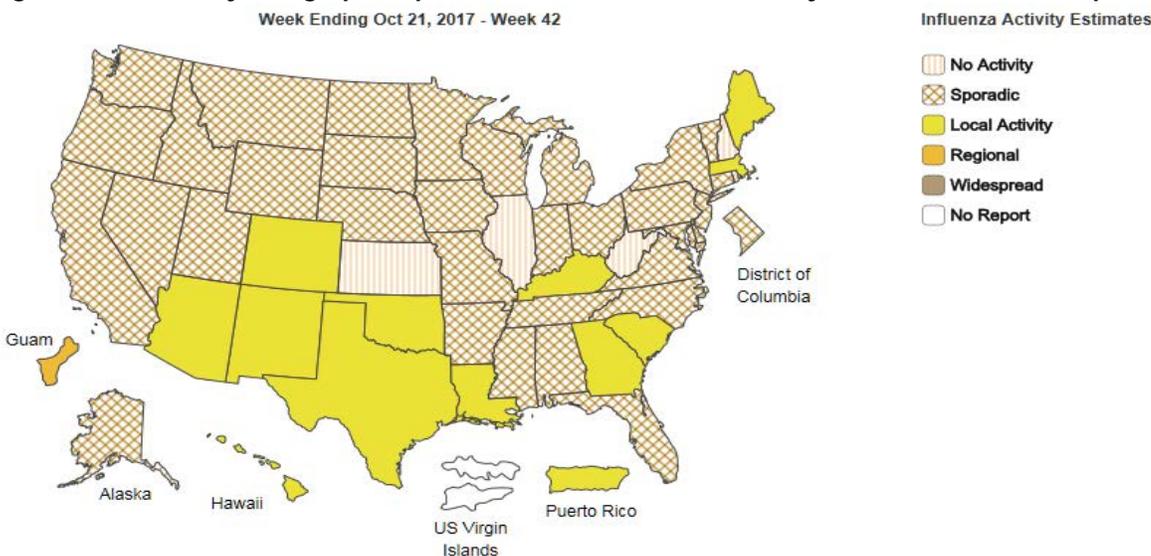


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor
Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 42, the following influenza activity was reported:

- Regional influenza activity was reported by Guam.
- Local influenza activity was reported by Puerto Rico and 12 states (Arizona, Colorado, Georgia, Hawaii, Kentucky, Louisiana, Maine, Massachusetts, New Mexico, Oklahoma, South Carolina, and Texas).
- **Sporadic** influenza activity was reported by the District of Columbia and 33 states (Alabama, Alaska, Arkansas, California, Connecticut, Delaware, Florida, Idaho, Indiana, Iowa, Maryland, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, **Nevada**, New Jersey, New York, North Carolina, North Dakota, Ohio, Oregon, Pennsylvania, South Dakota, Tennessee, Utah, Vermont, Virginia, Washington, Wisconsin, and Wyoming).
- No activity was reported by and five states (Illinois, Kansas, New Hampshire, Rhode Island, and West Virginia).
- The U.S. Virgin Islands did not report.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #44: October 29, 2017 – November 4, 2017

Date: Wednesday, November 8, 2017

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPPH)
775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 107 patients with influenza-like-illness (ILI) for week ending November 4, 2017 (week 44). The percentage of persons seen with ILI by the twelve providers was 1.6% (107/6725) which is below the regional baseline of 2.4%. During week 43, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.2%. Nationwide during week 43 the percentage of visits to sentinel providers due to ILI was 1.5% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.7% to 2.3%. All ten regions reported a proportion of outpatient visits for ILI below their region-specific baseline levels.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

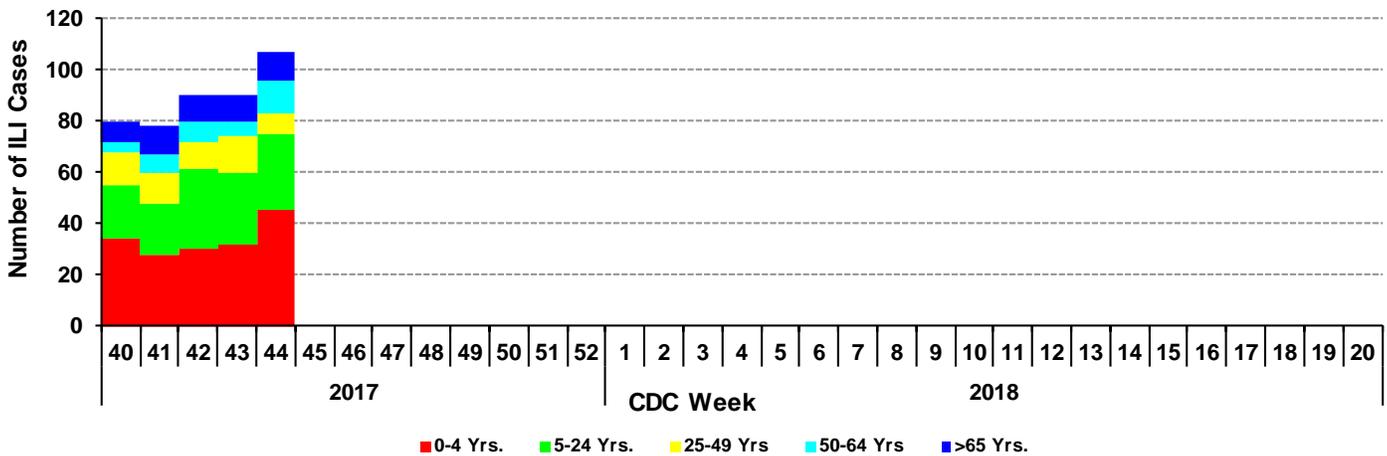
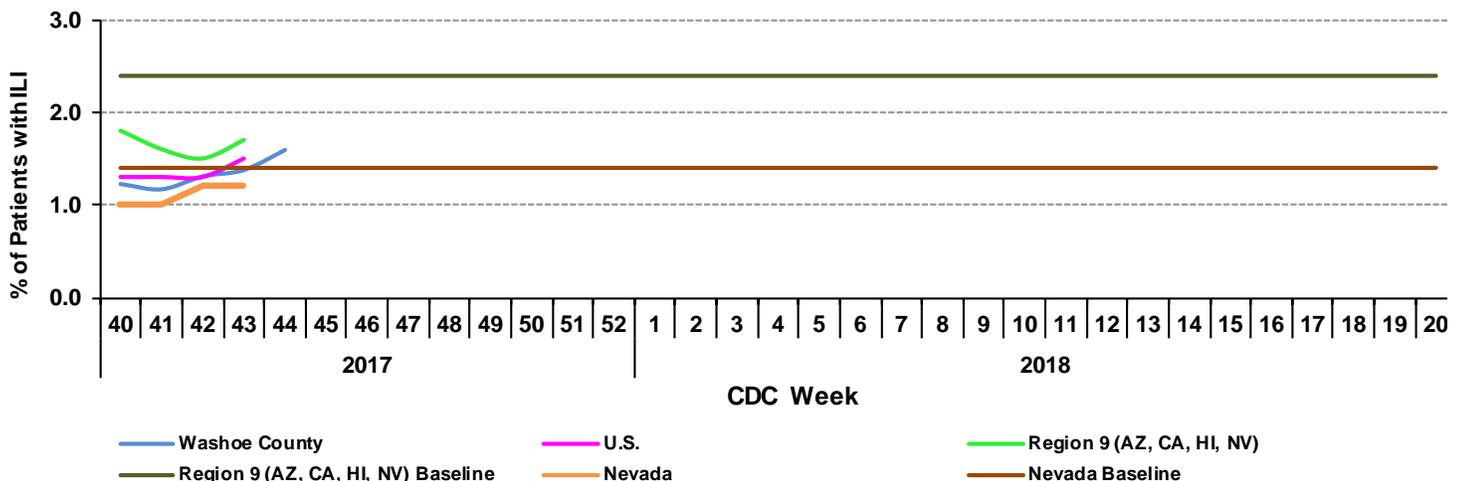


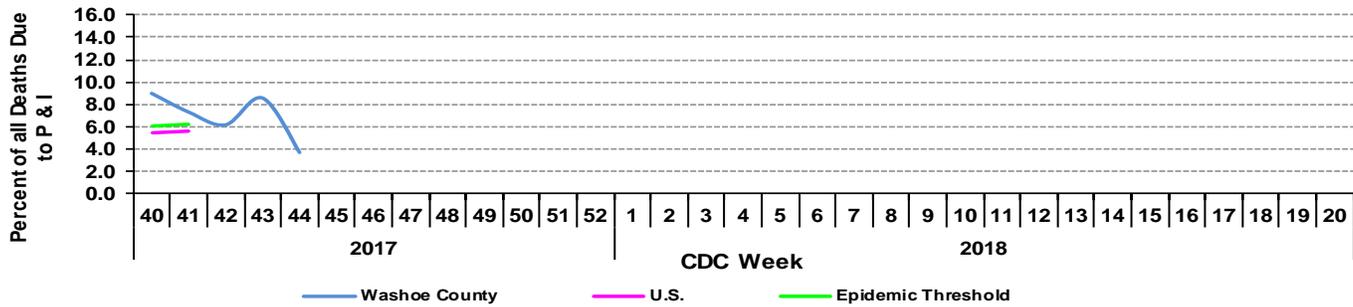
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Four death certificates were received for week 44 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 44 was 108. This reflects a P&I ratio of 3.7% which is above the epidemic threshold set by CDC for week 41 at 6.2%. The national P&I for week 41 was below the epidemic threshold at 5.6%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 29. This reflects an overall P&I ratio of 6.7% (29/430).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
44	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
2	1	0	1	0

Washoe County Total: 128 Influenza type A: 92 Influenza type B: 22 Influenza unk type: 14

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 44) October 29, 2017 - November 4, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - November 4, 2017									
	Total		Hospitalized		Vax [§]		ICU		Death		Total		Hospitalized		Vax [§]		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	44	7	15.9	0	0.0	1	2.3	0	0.0	128	13	10.2	0	0.0	1	0.8	0	0.0		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	1	1	7.7	0	0.0	0	0.0	0	#DIV/0!		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	5	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!		
Influenza A (not subtyped)	8	4	57.1	0	0.0	1	100.0	0	#DIV/0!	18	8	61.5	0	0.0	1	100.0	0	#DIV/0!		
Influenza A (RIDT*)	22	2	28.6	0	0.0	0	0.0	0	#DIV/0!	68	2	15.4	0	0.0	0	0.0	0	#DIV/0!		
Influenza B (RIDT*)	8	1	14.3	0	0.0	0	0.0	0	#DIV/0!	21	2	15.4	0	0.0	0	0.0	0	#DIV/0!		
Influenza B (non-RIDT**)	1	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	1	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!		
Influenza (unknown type, RIDT*)	5	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	14	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

§Vaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

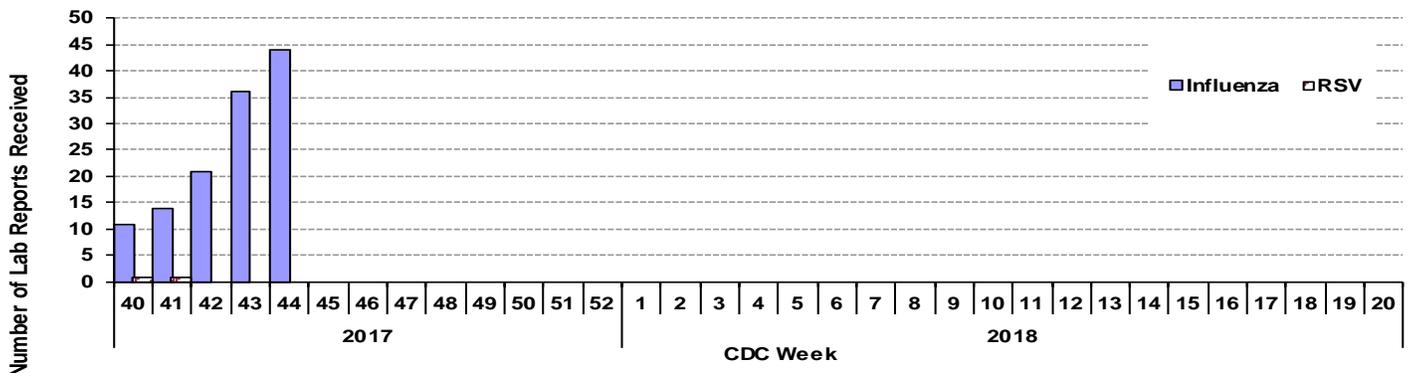


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

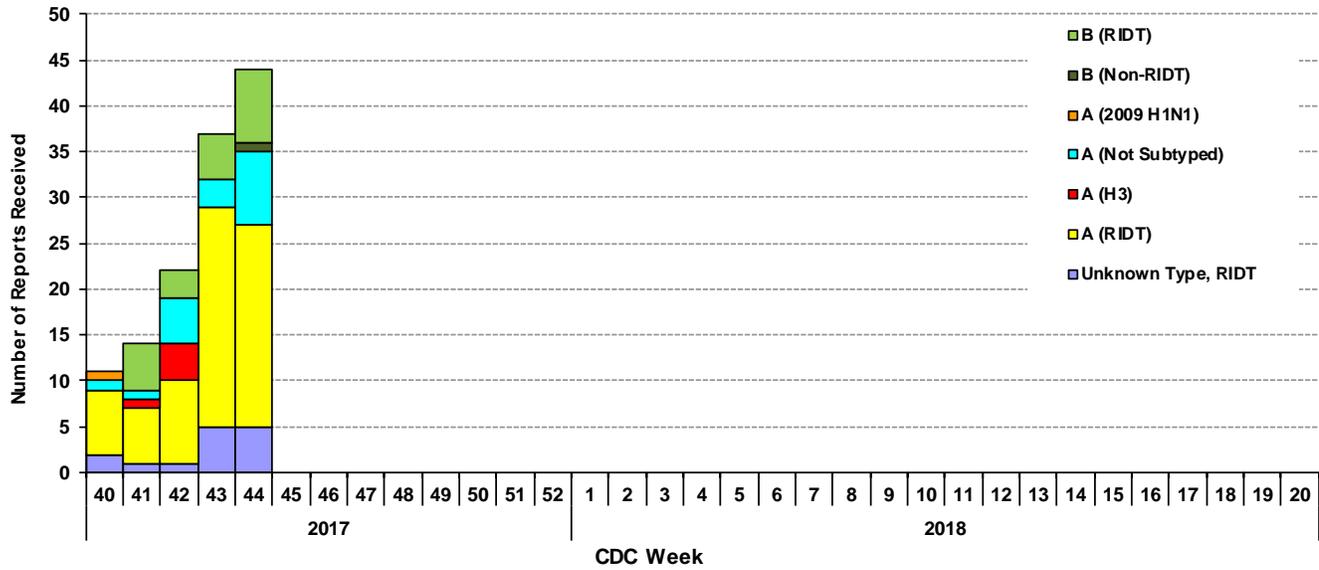


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

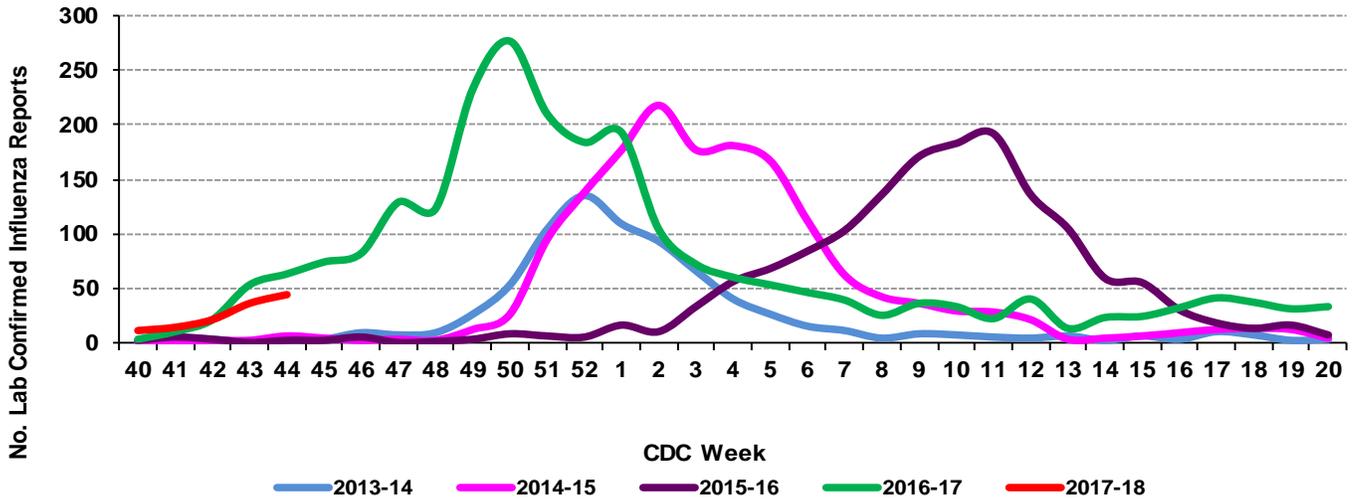
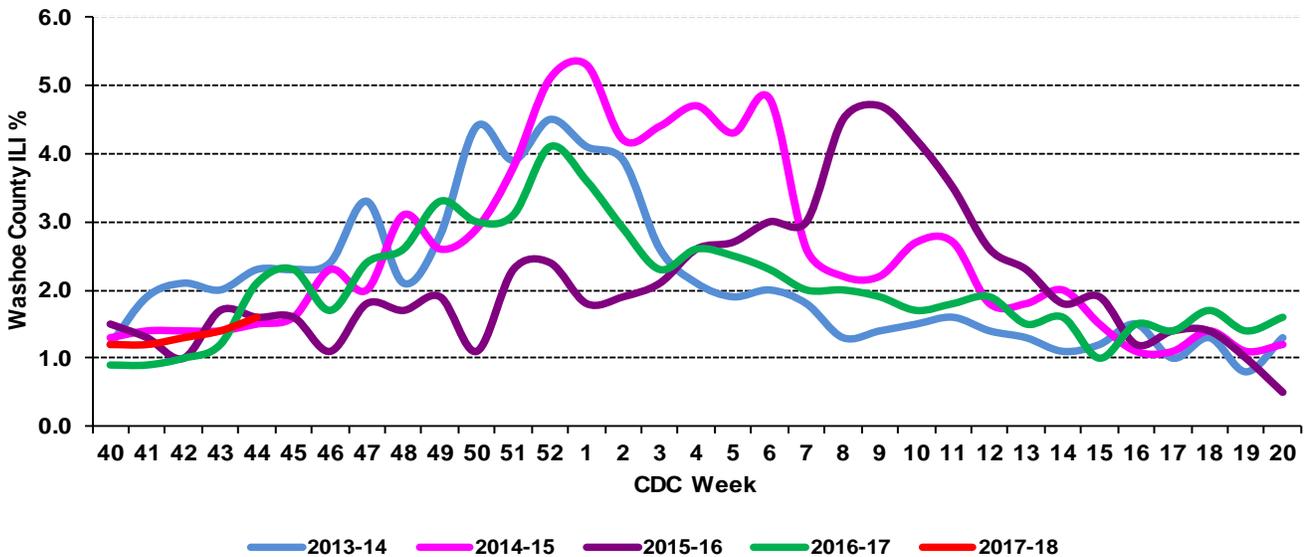
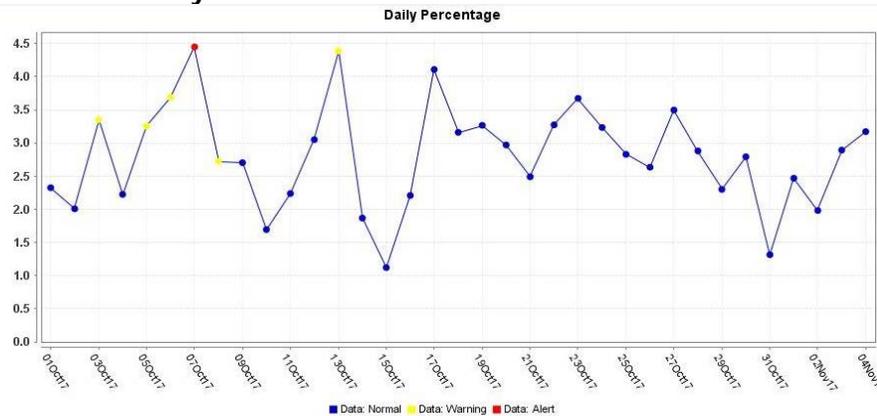


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

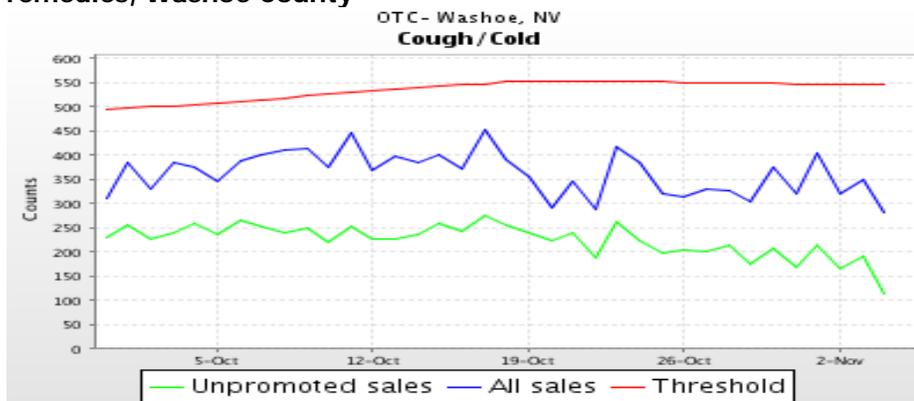
Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County



Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms. (Source: ESSENCE)

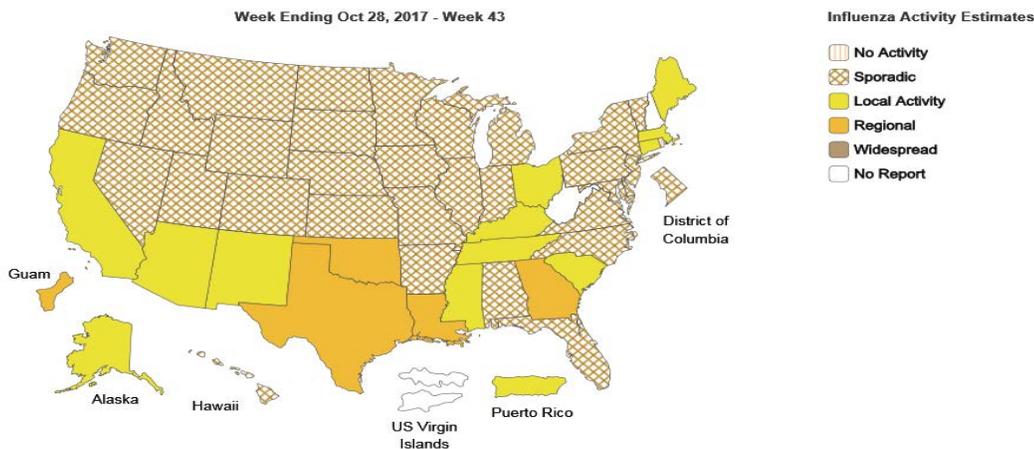
Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County



Over-the-Counter (OTC) sales for cough and/or cold remedies include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 43, the following influenza activity was reported:

- Regional influenza activity was reported by Guam and four states (Georgia, Louisiana, Oklahoma, and Texas).
- Local influenza activity was reported by Puerto Rico and 12 states (Alaska, Arizona, California, Connecticut, Kentucky, Maine, Massachusetts, Mississippi, New Mexico, Ohio, South Carolina, and Tennessee).
- Sporadic influenza activity was reported by the District of Columbia and 31 states (Alabama, Arkansas, Colorado, Delaware, Florida, Hawaii, Idaho, Indiana, Illinois, Iowa, Kansas, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, **Nevada**, New Jersey, New York, North Carolina, North Dakota, Oregon, Pennsylvania, South Dakota, Utah, Vermont, Virginia, Washington, Wisconsin, and Wyoming).
- No activity was reported by one state (Rhode Island).
- The U.S. Virgin Islands and two states (New Hampshire and West Virginia) did not report.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #45: November 5, 2017 – November 11, 2017

Date: Wednesday, November 15, 2017

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPHP)
775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 122 patients with influenza-like-illness (ILI) for week ending November 11, 2017 (week 45). The percentage of persons seen with ILI by the twelve providers was 1.8% (122/6827) which is below the regional baseline of 2.4%. During week 44, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.3%. Nationwide during week 44 the percentage of visits to sentinel providers due to ILI was 1.8% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.8% to 3.0%. All ten regions reported a proportion of outpatient visits for ILI below their region-specific baseline levels.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

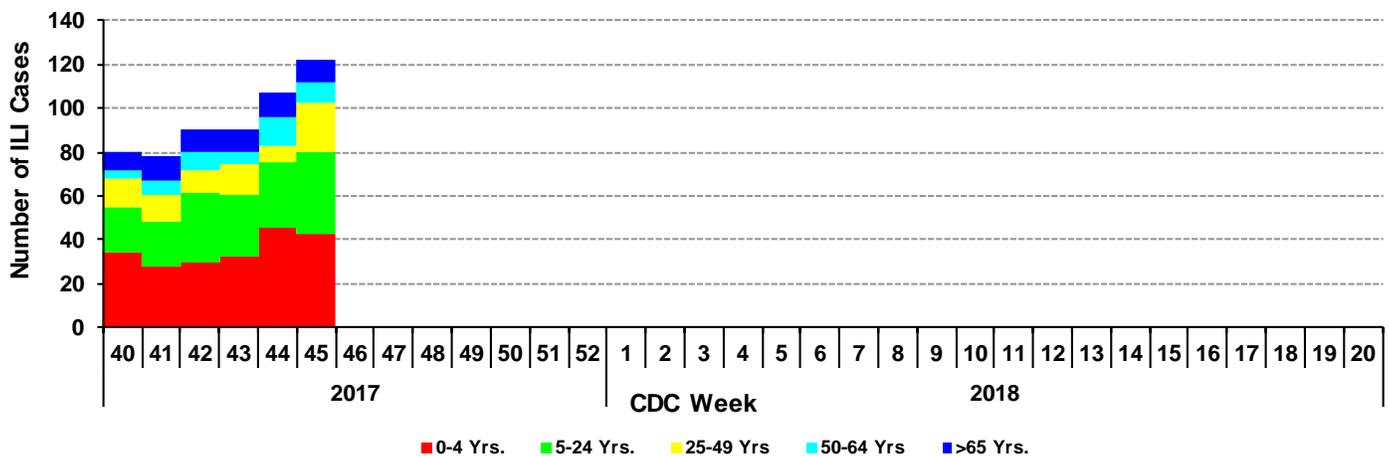
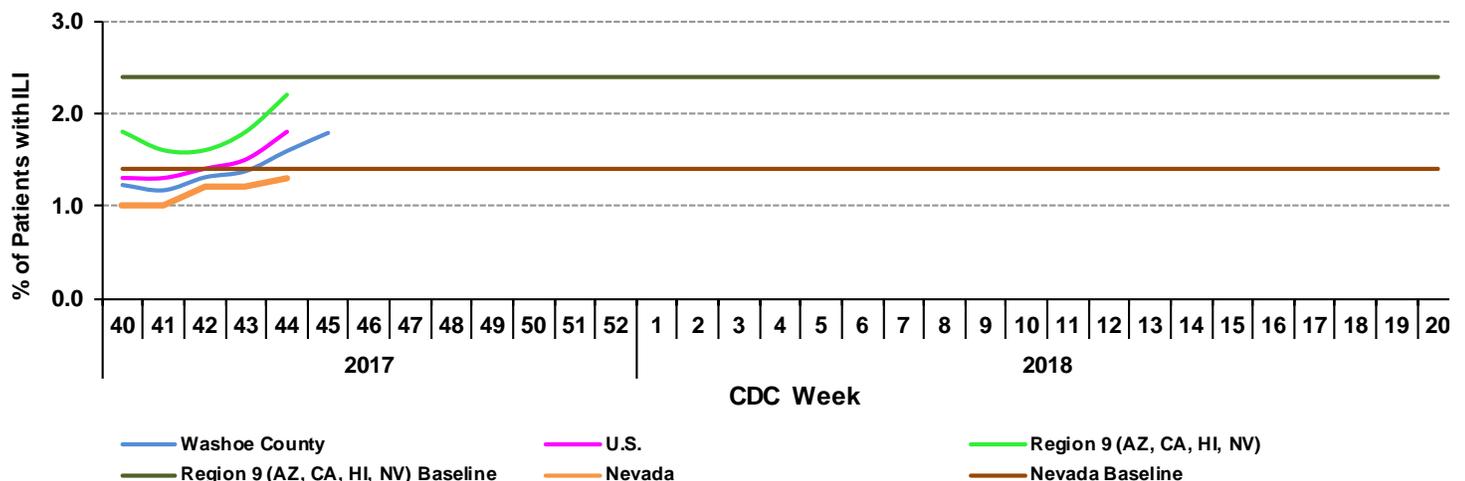


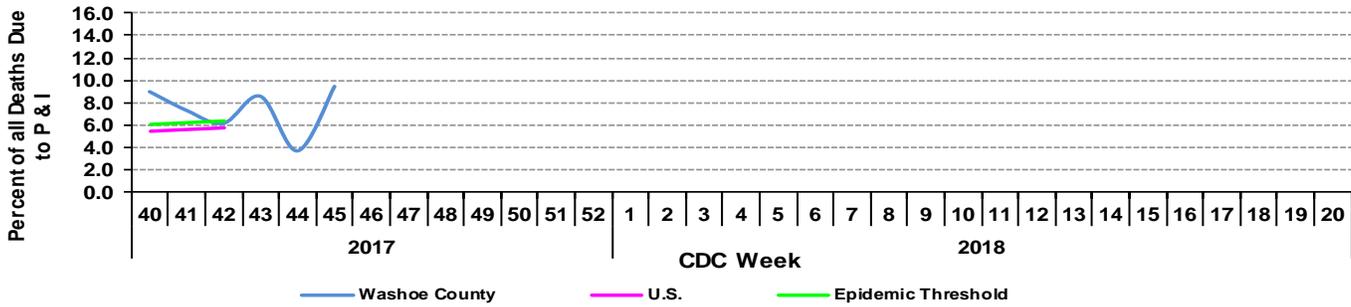
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Seven death certificates were received for week 45 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 45 was 74. This reflects a P&I ratio of 9.5% which is above the epidemic threshold set by CDC for week 42 at 6.3%. The national P&I for week 42 was below the epidemic threshold at 5.8%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 36. This reflects an overall P&I ratio of 7.1% (36/504).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
45	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
3	2	0	1	0

Washoe County Total: 238 Influenza type A: 185 Influenza type B: 32 Influenza unk type: 21

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 45) November 5, 2017 - November 11, 2017					Cumulative for 2017-2018 Influenza Season October 1, 2017 - November 11, 2017												
	Total	Hospitalized		Vax ^s		ICU		Death		Total	Hospitalized		Vax ^s		ICU		Death	
		#	%	#	%	#	%	#	%		#	%	#	%	#	%	#	%
Total # of cases reported	107	15	14.0	7	46.7	2	1.9	0	0.0	238	27	11.3	7	25.9	4	1.7	0	0.0
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	1	1	3.7	0	0.0	0	0.0	0	#DIV/0!
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	8	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!
Influenza A (not subtyped)	29	12	80.0	7	58.3	2	100.0	0	#DIV/0!	47	20	74.1	7	35.0	4	100.0	0	#DIV/0!
Influenza A (RIDT*)	61	3	20.0	0	0.0	0	0.0	0	#DIV/0!	129	4	14.8	0	0.0	0	0.0	0	#DIV/0!
Influenza B (RIDT*)	9	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	30	2	7.4	0	0.0	0	0.0	0	#DIV/0!
Influenza B (non-RIDT**)	1	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	2	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!
Influenza (unknown type, RIDT*)	7	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	21	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

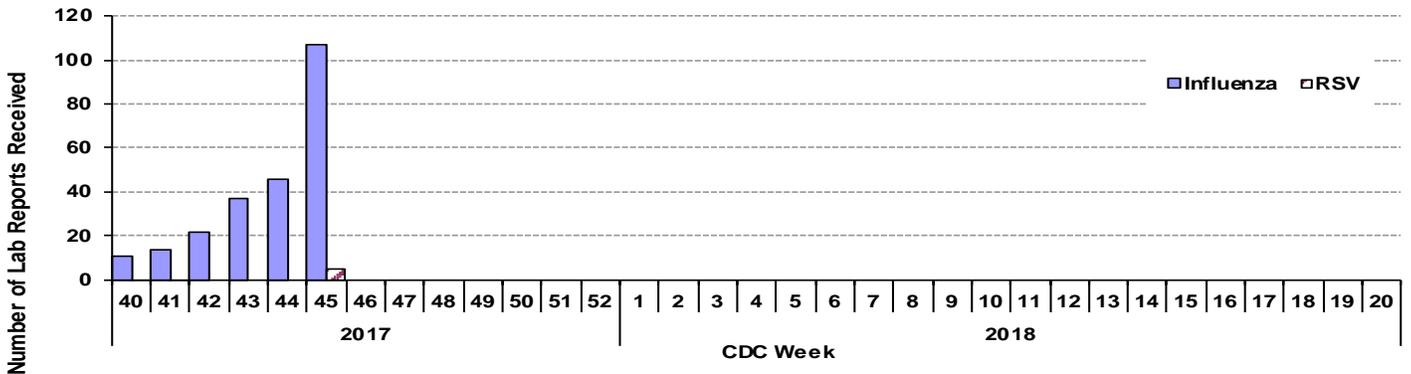


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

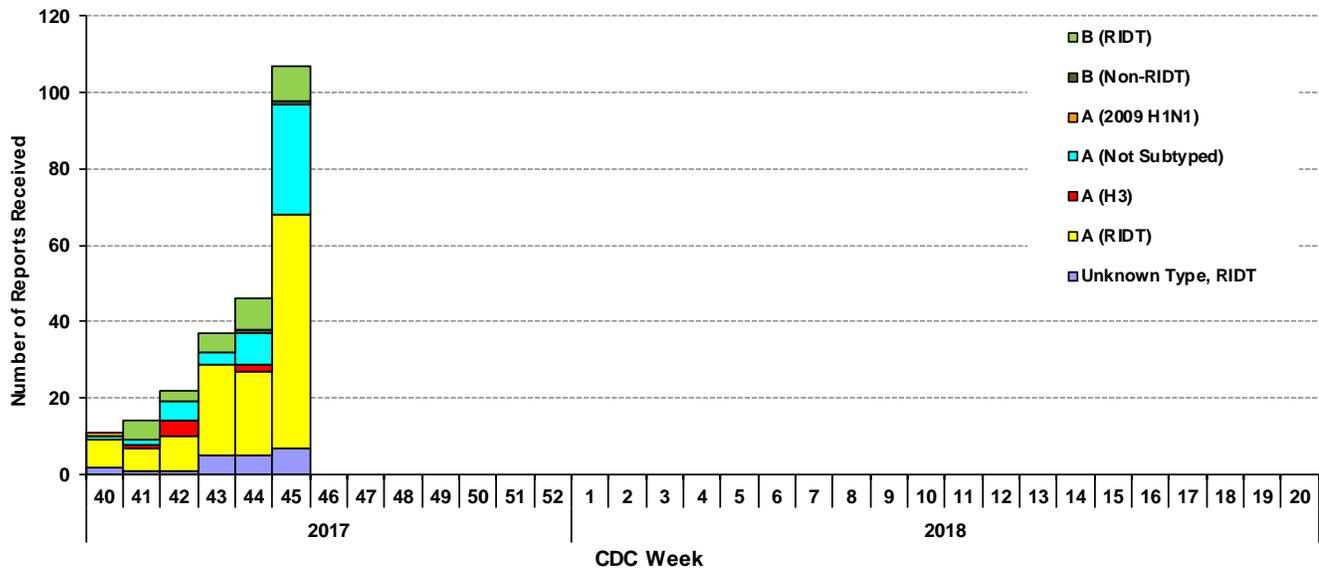


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

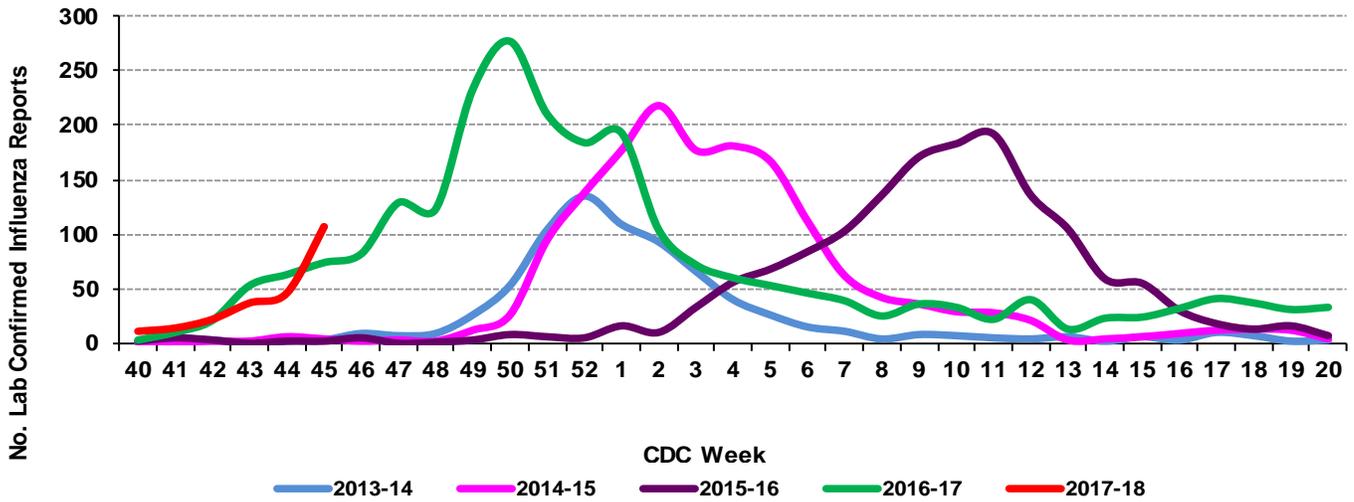
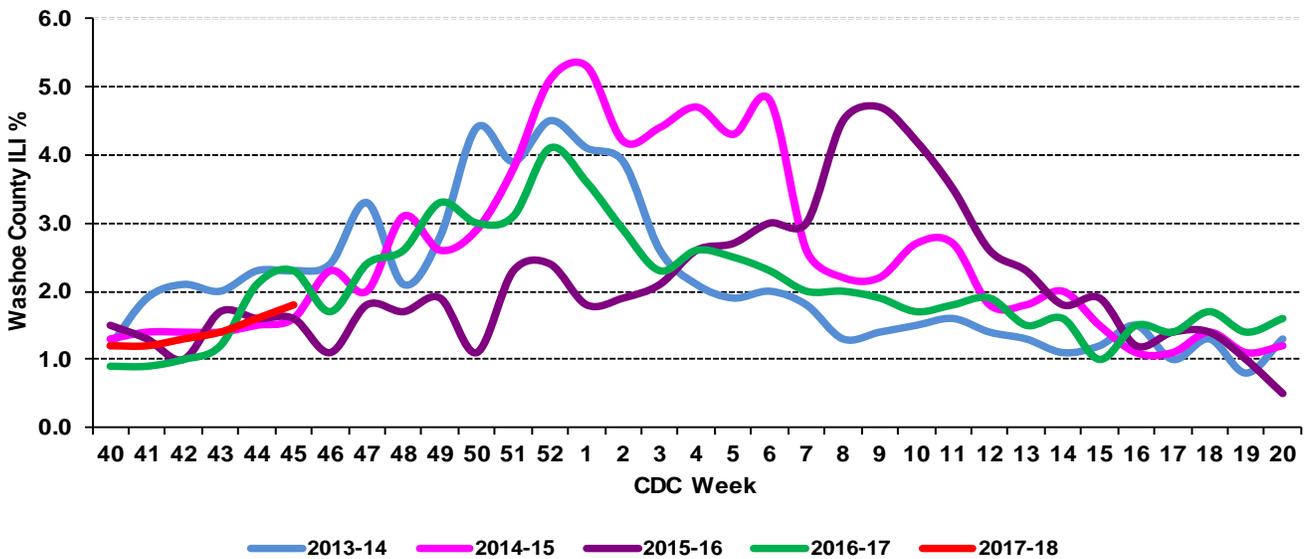
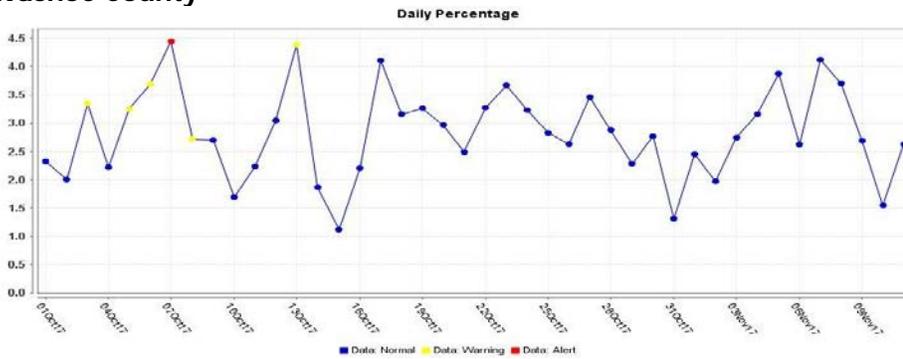


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

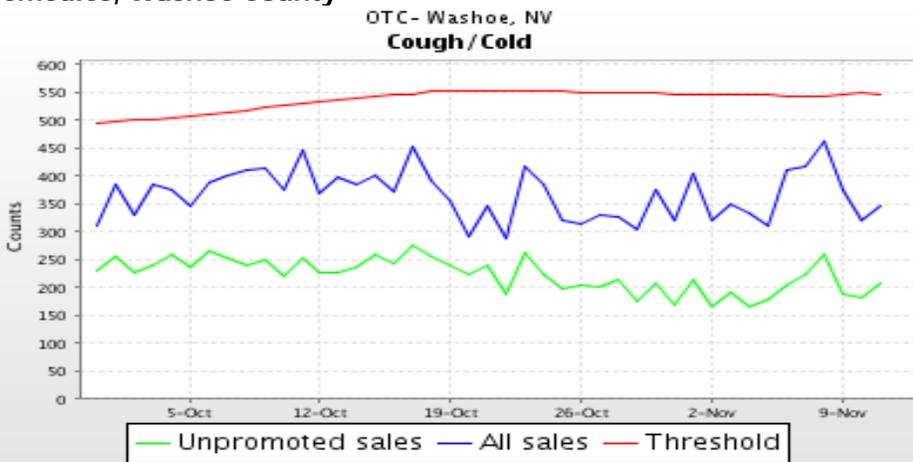


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

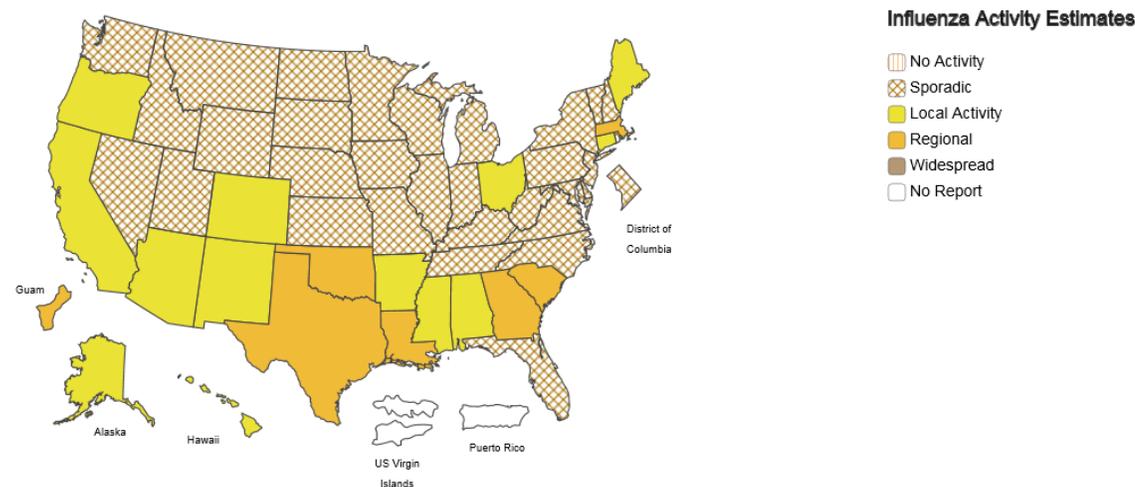


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Nov 04, 2017 - Week 44



During week 44, the following influenza activity was reported:

- Regional influenza activity was reported by Guam and six states (Georgia, Louisiana, Massachusetts, Oklahoma, South Carolina, and Texas).
- Local influenza activity was reported by Puerto Rico and 13 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Hawaii, Maine, Mississippi, New Mexico, Ohio, and Oregon).
- **Sporadic** influenza activity was reported by the District of Columbia and 31 states (Delaware, Florida, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, **Nevada**, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Pennsylvania, Rhode Island, South Dakota, Tennessee, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Puerto Rico and the U.S. Virgin Islands did not report.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #46: November 12, 2017 – November 18, 2017

Date: Wednesday, November 22, 2017
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPPH)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 107 patients with influenza-like-illness (ILI) for week ending November 18, 2017 (week 46). The percentage of persons seen with ILI by the twelve providers was 1.5% (107/7082) which is below the regional baseline of 2.4%. During week 45, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.6%. Nationwide during week 45 the percentage of visits to sentinel providers due to ILI was 1.9% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.9% to 3.3%. One region (Region 4) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

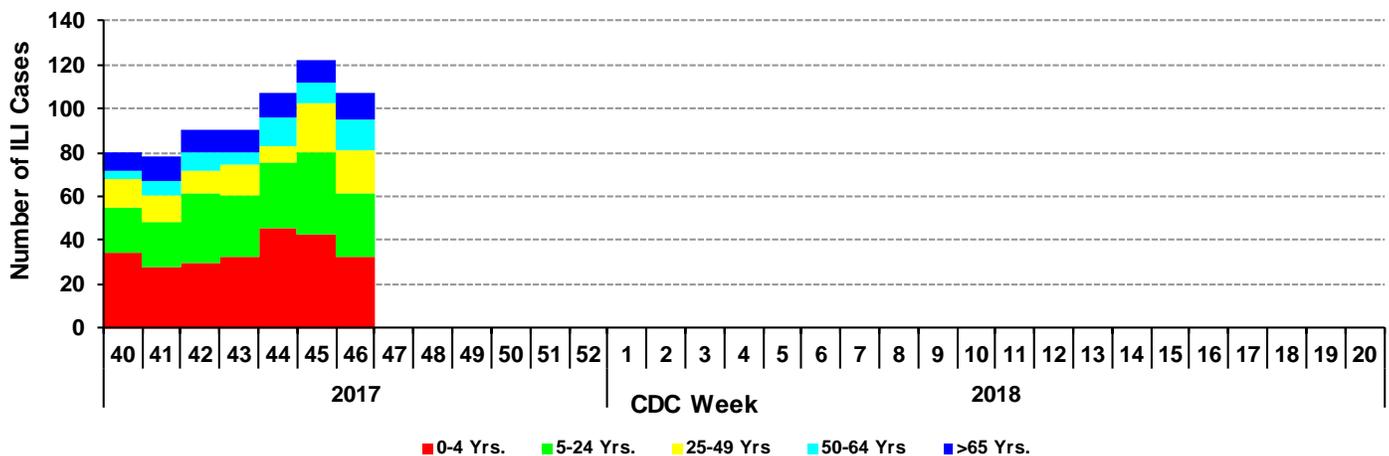
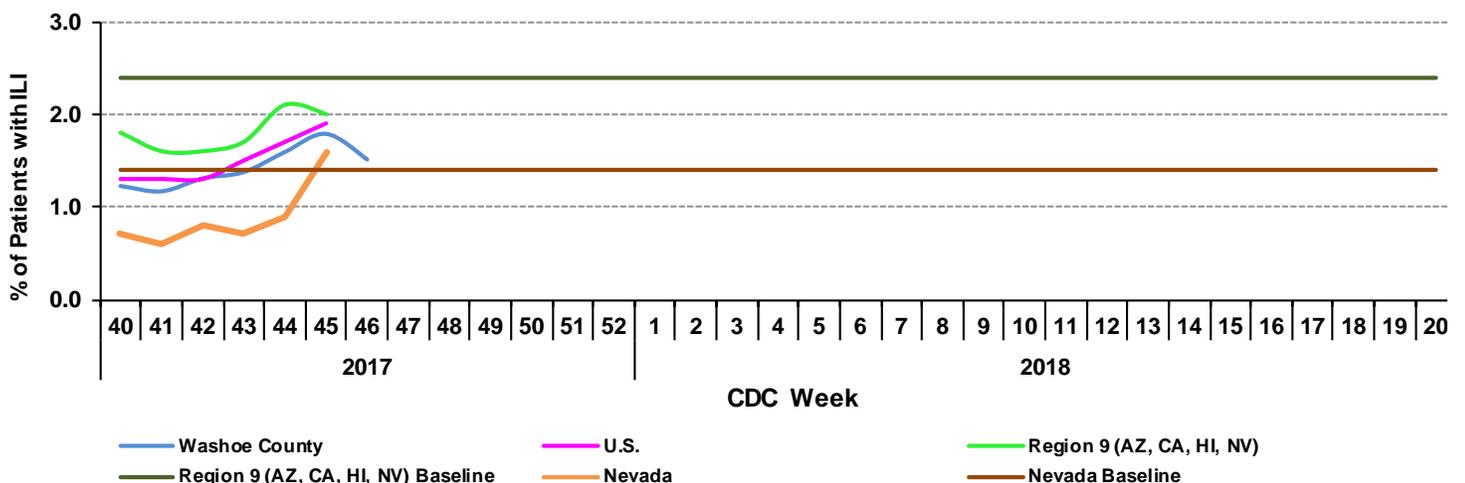


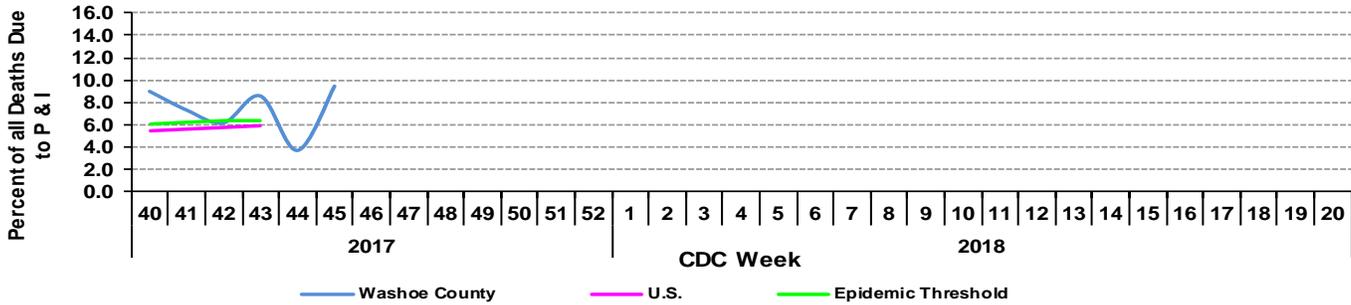
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Washoe County death certificate data are not yet available for week 46. The national P&I for week 43 was 5.9%, below the epidemic threshold of 6.3%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 36. This reflects an overall P&I ratio of 7.1% (36/504).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
46	0	

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
3	2	0	1	0

Washoe County Total: 372 Influenza type A: 286 Influenza type B: 49 Influenza unk type: 37

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

	Current Week (Week 46) November 12, 2017 - November 18, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - November 18, 2017									
	Total		Hospitalized		Vax [§]		ICU		Death		Total		Hospitalized		Vax [§]		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	132	7	5.3	2	28.6	1	0.8	0	0.0	0	0.0	372	35	9.4	9	25.7	5	1.3	0	0.0
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	2	1	2.9	0	0.0	0	0.0	0	0.0	0	#DIV/0!
Influenza A (seasonal H3)	1	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	10	0	0.0	0	#DIV/0!	0	0.0	0	0.0	0	#DIV/0!
Influenza A (not subtyped)	26	5	71.4	2	40.0	1	100.0	0	#DIV/0!	73	25	71.4	9	36.0	5	100.0	0	#DIV/0!	0	#DIV/0!
Influenza A (RIDT*)	72	1	14.3	0	0.0	0	0.0	0	#DIV/0!	201	6	17.1	0	0.0	0	0.0	0	0.0	0	#DIV/0!
Influenza B (RIDT*)	14	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	44	2	5.7	0	0.0	0	0.0	0	0.0	0	#DIV/0!
Influenza B (non-RIDT**)	3	1	14.3	0	0.0	0	0.0	0	#DIV/0!	5	1	2.9	0	0.0	0	0.0	0	0.0	0	#DIV/0!
Influenza (unknown type, RIDT*)	16	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	37	0	0.0	0	#DIV/0!	0	0.0	0	0.0	0	#DIV/0!

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

§Vaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

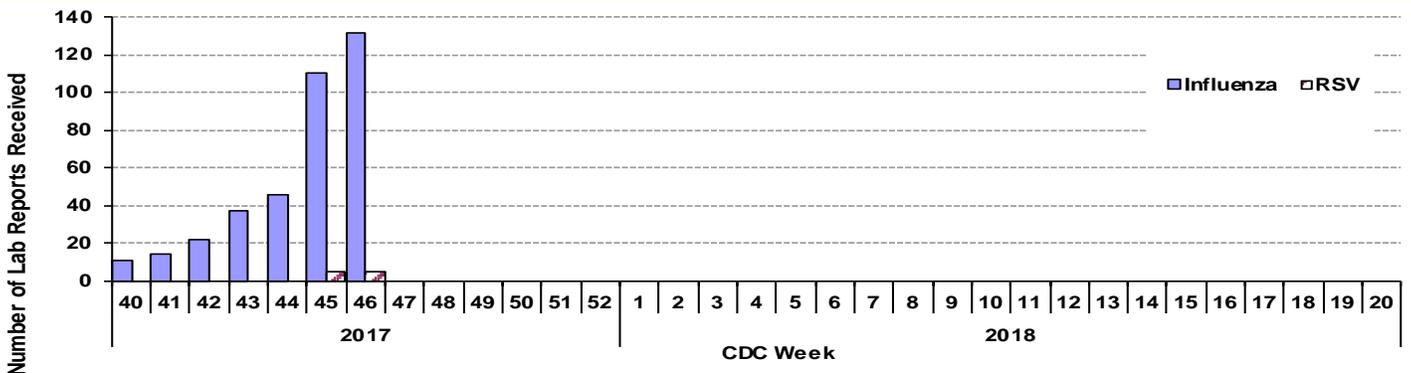


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

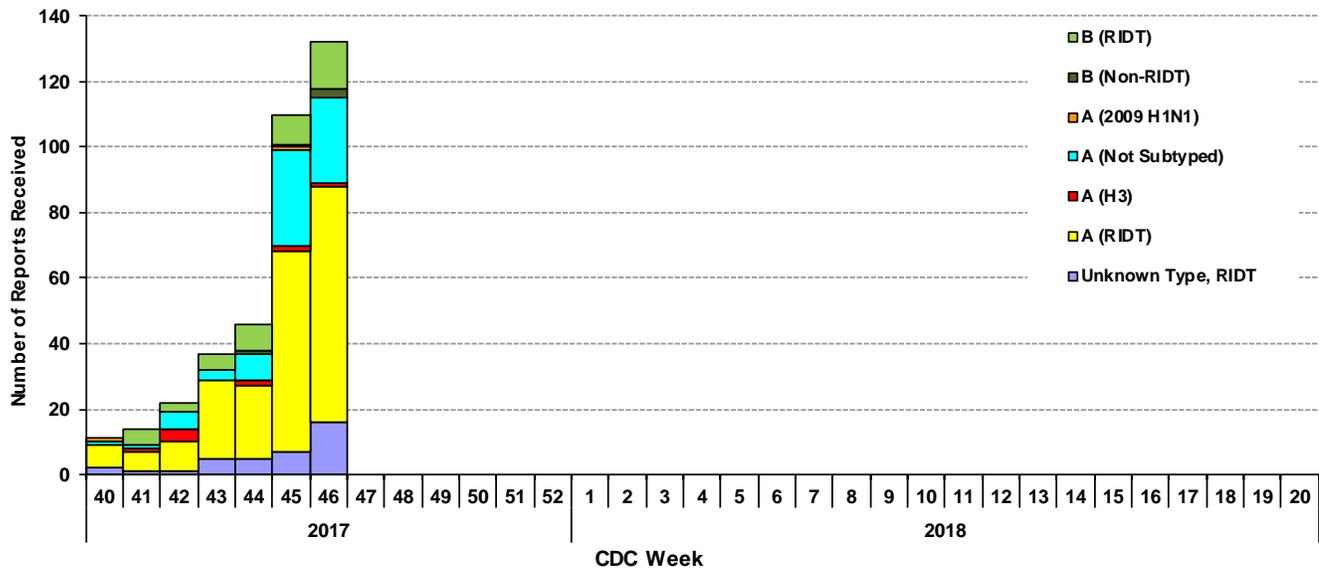


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

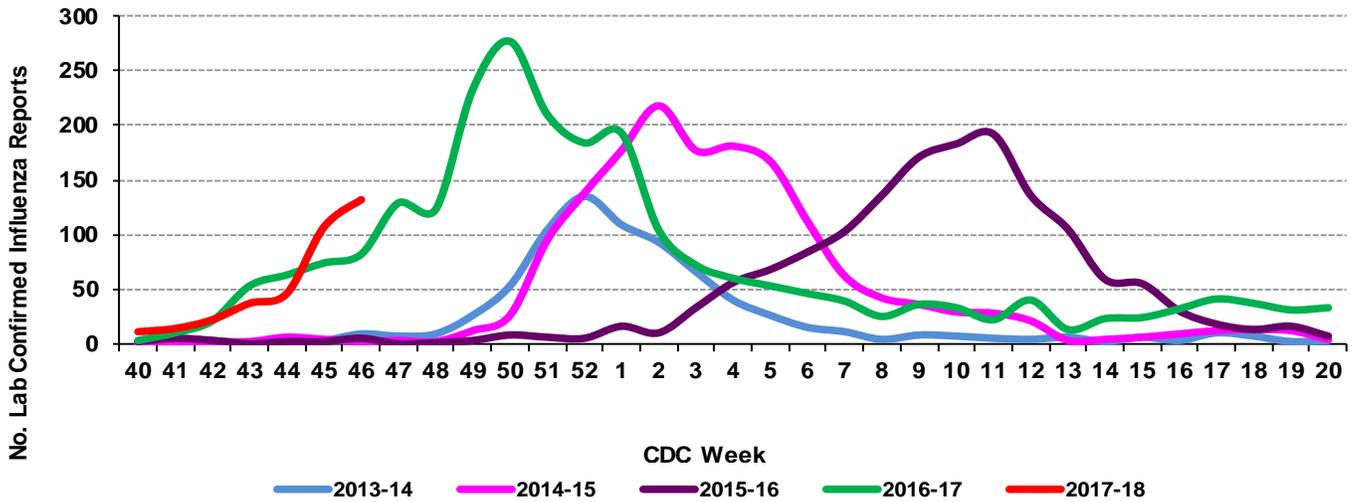
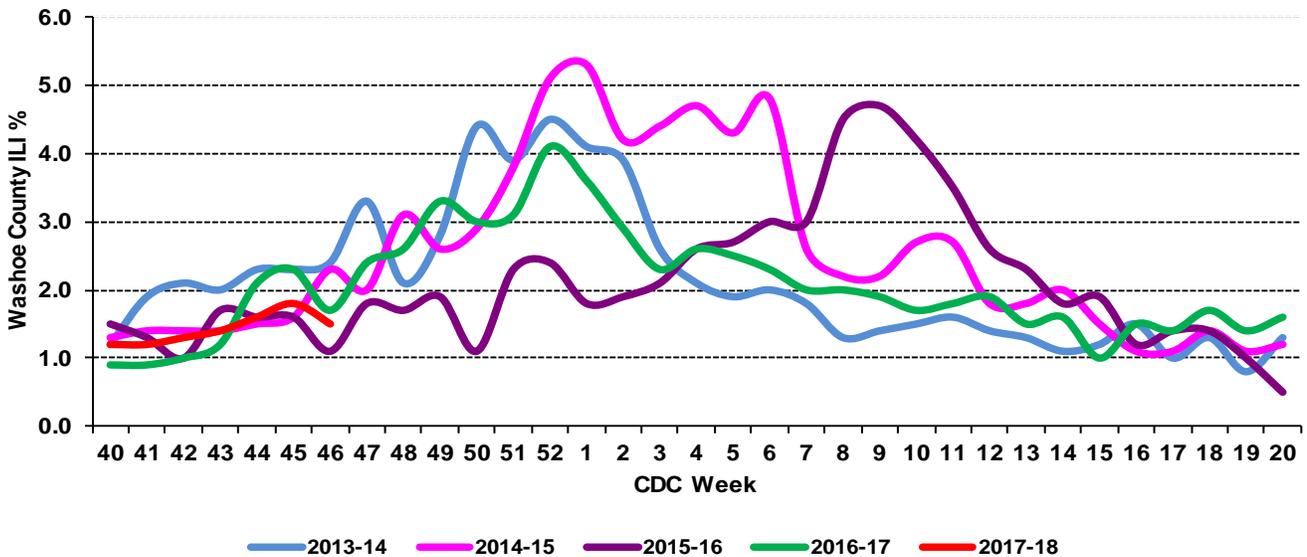
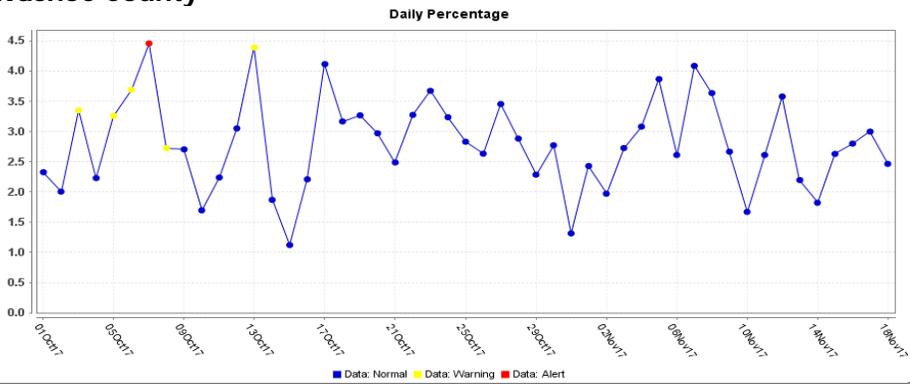


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

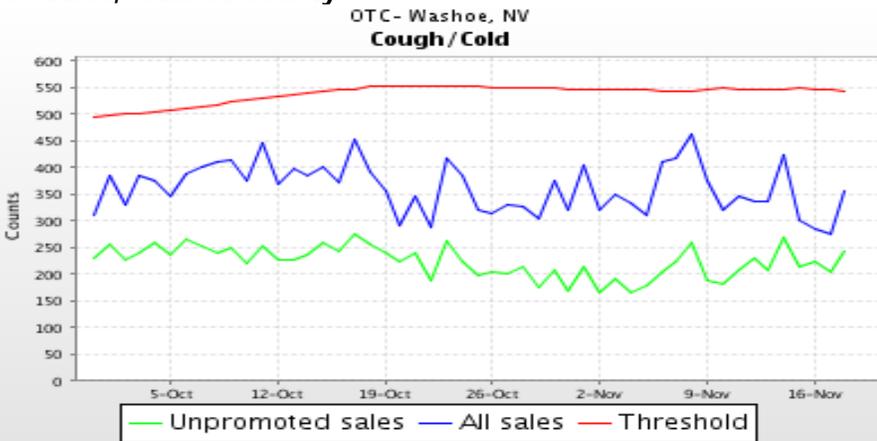
Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County



Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms. (Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County



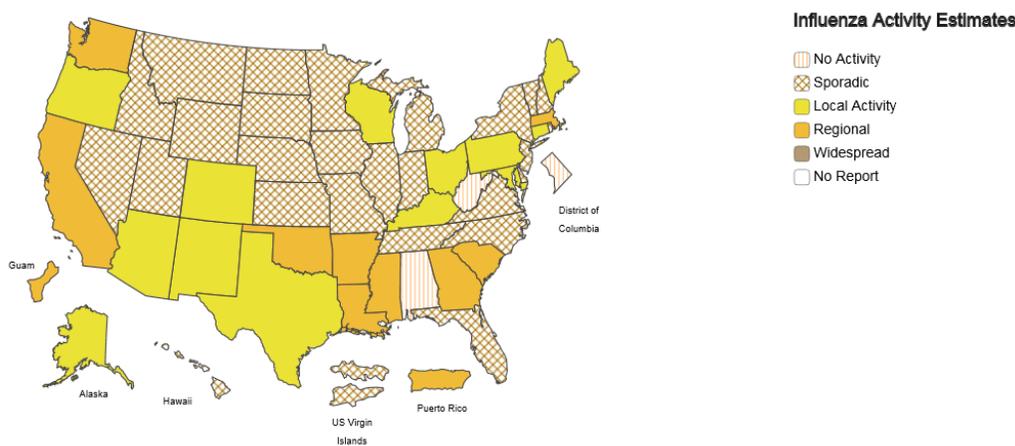
Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Nov 11, 2017 - Week 45



During week 45, the following influenza activity was reported:

- Regional influenza activity was reported by Guam, Puerto Rico, and nine states (Arkansas, California, Georgia, Louisiana, Massachusetts, Mississippi, Oklahoma, South Carolina, and Washington).
- Local influenza activity was reported by 13 states (Alaska, Arizona, Colorado, Connecticut, Kentucky, Maine, Maryland, New Mexico, Ohio, Oregon, Pennsylvania, Texas, and Wisconsin).
- **Sporadic** influenza activity was reported by the U.S. Virgin Islands and 26 states (Delaware, Florida, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Montana, Nebraska, **Nevada**, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Rhode Island, South Dakota, Tennessee, Utah, Vermont, Virginia, and Wyoming).
- No activity was reported by the District of Columbia and two states (Alabama and West Virginia).

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #47: November 19, 2017 – November 25, 2017

Date: Wednesday, November 29, 2017
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPPH)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 151 patients with influenza-like-illness (ILI) for week ending November 25, 2017 (week 47). The percentage of persons seen with ILI by the twelve providers was 2.3% (151/6545) which is below the regional baseline of 2.4%. During week 46, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.3%. Nationwide during week 46 the percentage of visits to sentinel providers due to ILI was 2.0% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.7% to 4.5%. Four regions (Regions 1, 2, 4, and 6) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

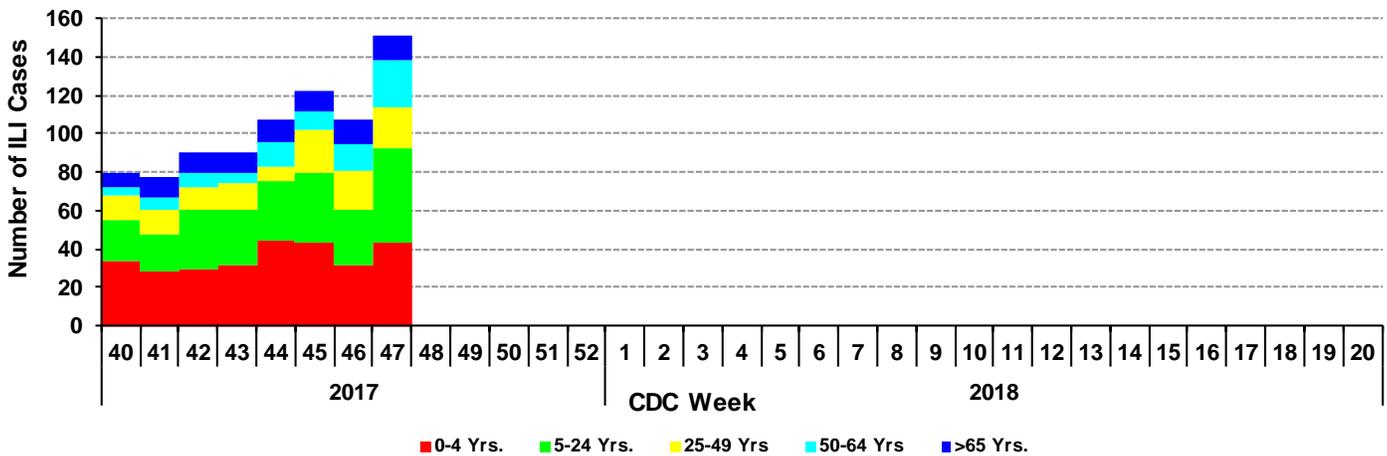
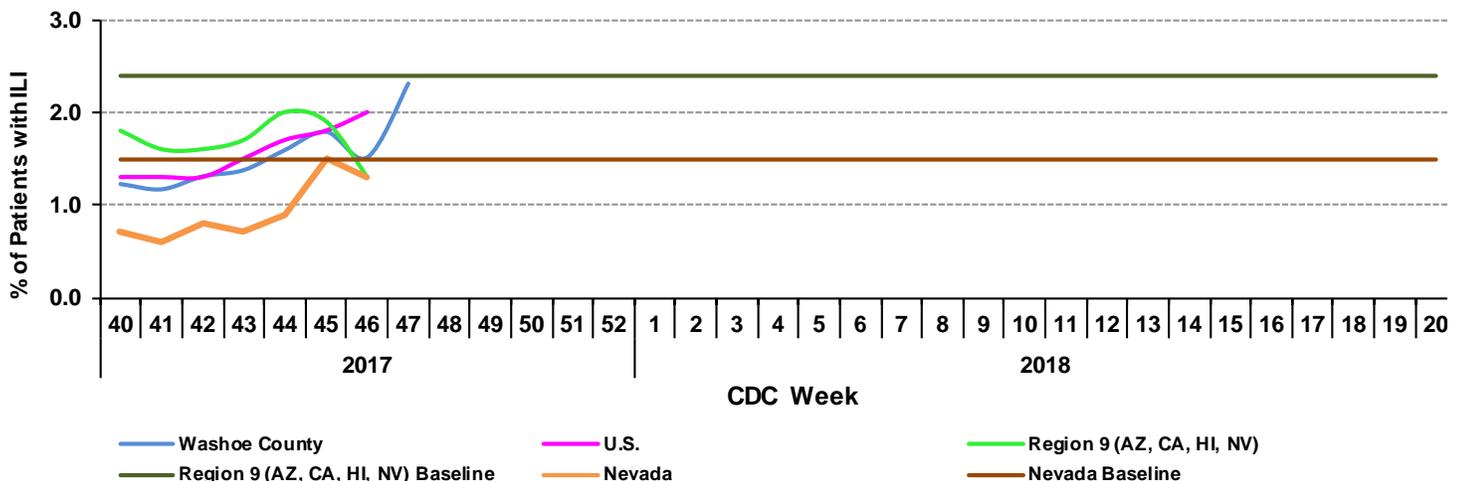


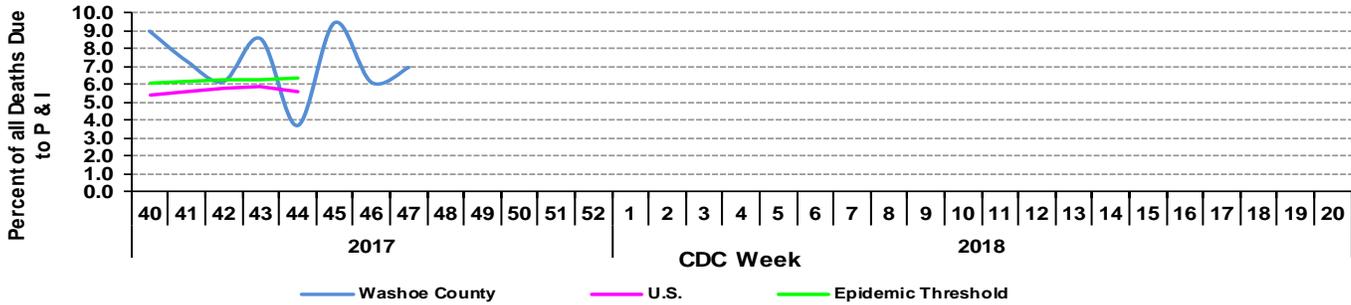
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Eight death certificates were received for week 47 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 47 was 115. This reflects a P&I ratio of 7.0% which is above the epidemic threshold set by CDC for week 44 at 6.4%. The national P&I for week 44 was below the epidemic threshold at 5.6%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 47. This reflects an overall P&I ratio of 7.0% (47/668).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
47	0	

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
3	2	0	1	0

Washoe County Total: 519 Influenza type A: 404 Influenza type B: 64 Influenza unk type: 51

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 47) November 19, 2017 - November 25, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - November 25, 2017									
	Total		Hospitalized		Vax [§]		ICU		Death		Total		Hospitalized		Vax [§]		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	143	19	13.3	4	21.1	1	0.7	0	0.0	0	0.0	519	54	10.4	13	24.1	6	1.2	0	0.0
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	2	1	1.9	0	0.0	0	0.0	0	0.0	0	#DIV/0!
Influenza A (seasonal H3)	3	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	14	0	0.0	0	#DIV/0!	0	0.0	0	0.0	0	#DIV/0!
Influenza A (not subtyped)	44	12	63.2	3	25.0	0	0.0	0	#DIV/0!	118	37	68.5	12	32.4	5	83.3	0	#DIV/0!	0	#DIV/0!
Influenza A (RIDT*)	67	5	26.3	1	20.0	1	100.0	0	#DIV/0!	270	11	20.4	1	9.1	1	16.7	0	#DIV/0!	0	#DIV/0!
Influenza B (RIDT*)	9	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	53	2	3.7	0	0.0	0	0.0	0	0.0	0	#DIV/0!
Influenza B (non-RIDT**)	5	1	5.3	0	0.0	0	0.0	0	#DIV/0!	11	2	3.7	0	0.0	0	0.0	0	0.0	0	#DIV/0!
Influenza (unknown type, RIDT*)	15	1	5.3	0	0.0	0	0.0	0	#DIV/0!	51	1	1.9	0	0.0	0	0.0	0	0.0	0	#DIV/0!

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

§Vaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

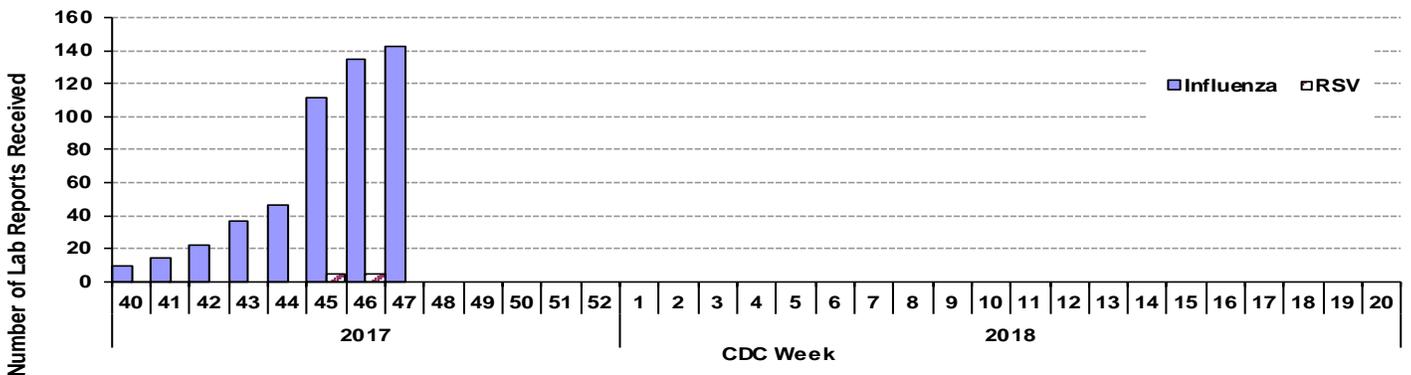


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

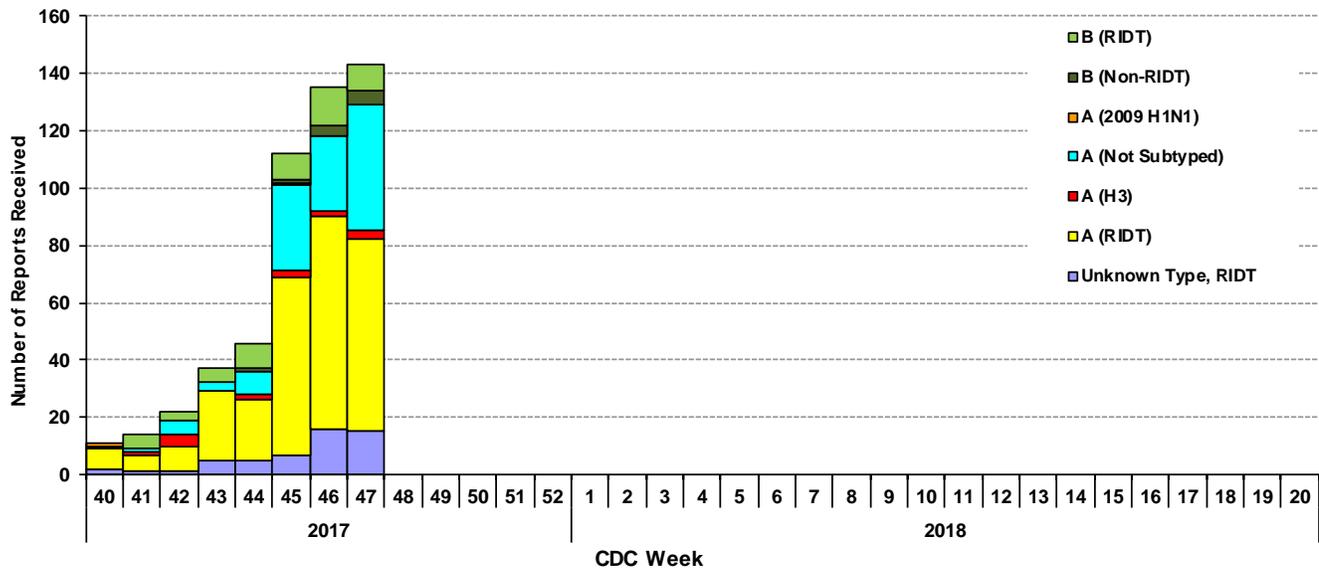


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

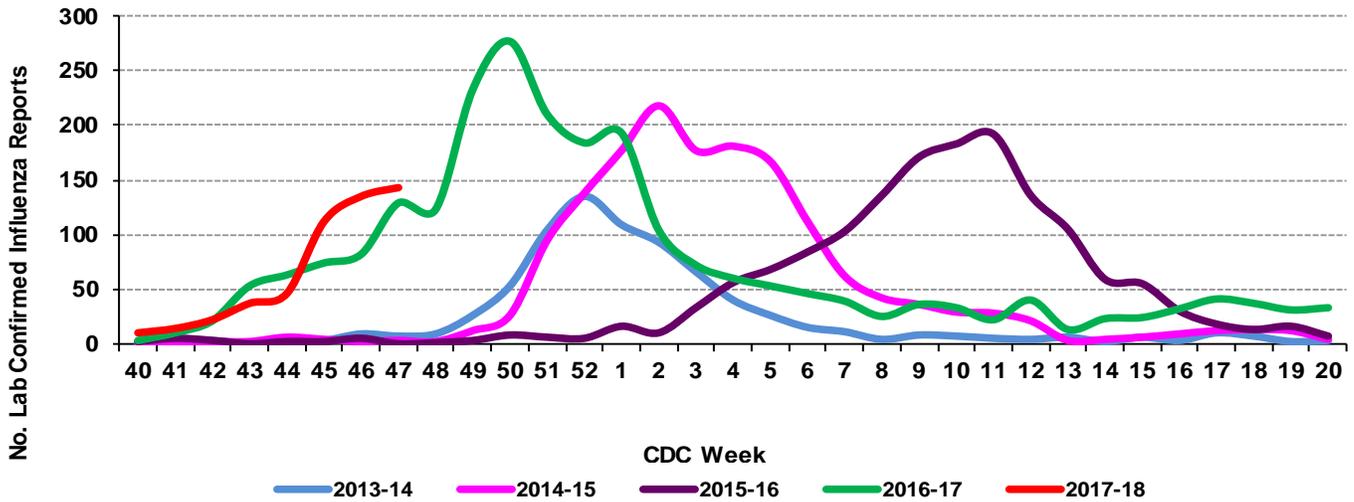
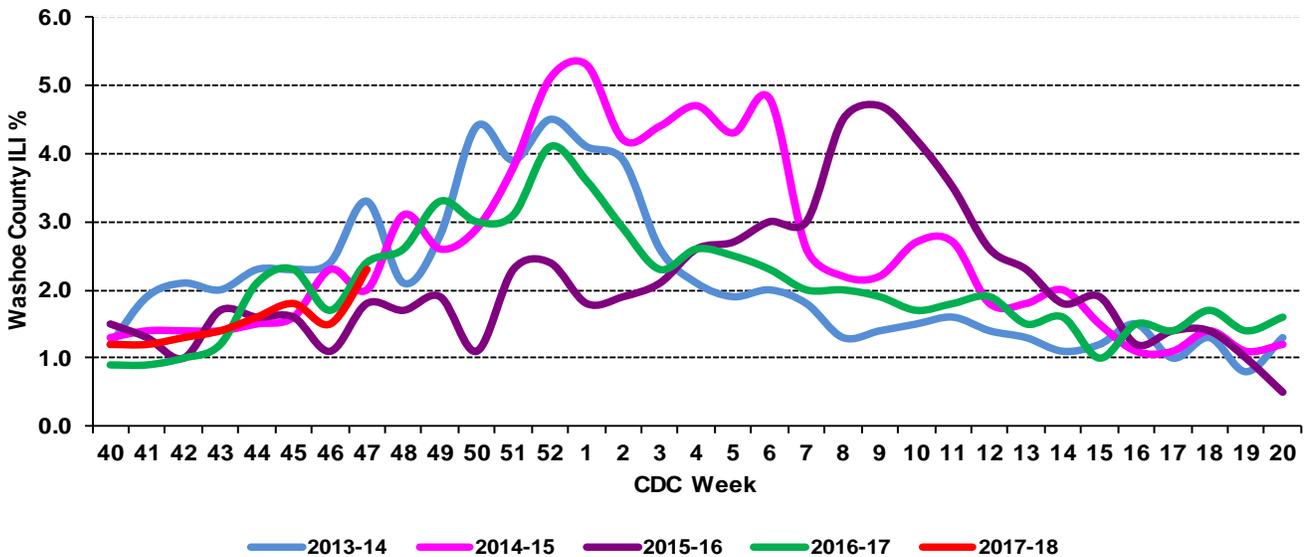
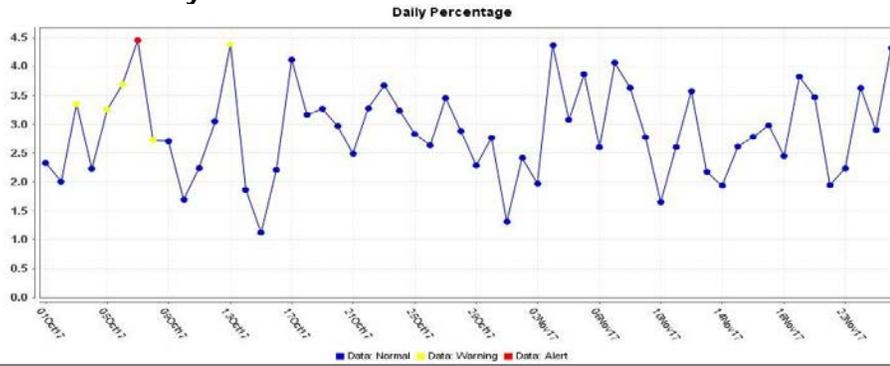


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

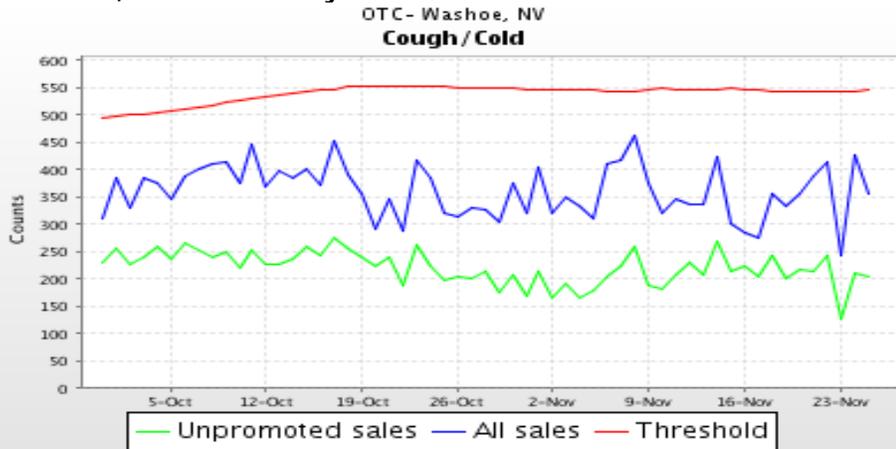
Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County



Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms. (Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

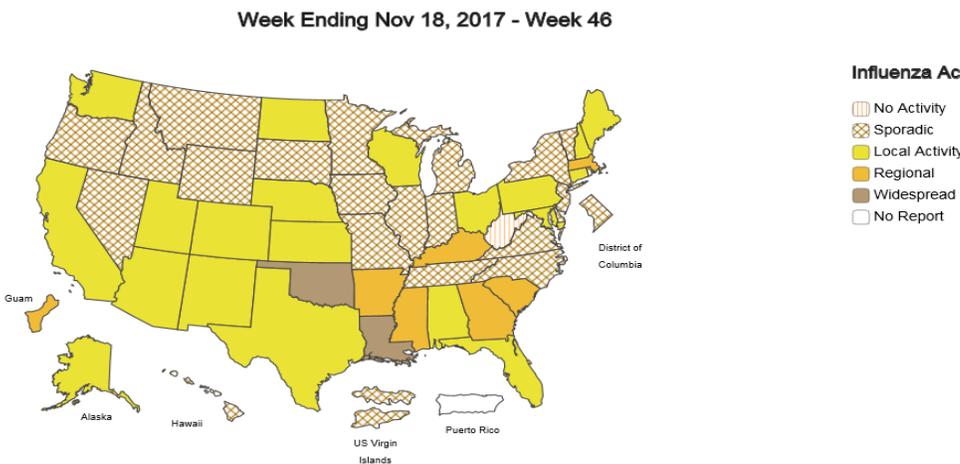


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*



During week 46, the following influenza activity was reported:

- Widespread influenza activity was reported by two states (Louisiana and Oklahoma).
- Regional influenza activity was reported by Guam and six states (Arkansas, Georgia, Kentucky, Massachusetts, Mississippi, and South Carolina).
- Local influenza activity was reported by 20 states (Alabama, Alaska, Arizona, California, Colorado, Connecticut, Florida, Kansas, Maine, Maryland, Nebraska, New Hampshire, New Mexico, North Dakota, Ohio, Pennsylvania, Texas, Utah, Washington, and Wisconsin).
- **Sporadic** influenza activity was reported by the District of Columbia, the U.S. Virgin Islands and 21 states (Delaware, Hawaii, Idaho, Illinois, Indiana, Iowa, Michigan, Minnesota, Missouri, Montana, **Nevada**, New Jersey, New York, North Carolina, Oregon, Rhode Island, South Dakota, Tennessee, Vermont, Virginia, and Wyoming).
- No influenza activity was reported by one state (West Virginia).
- Puerto Rico did not report.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #48: November 26, 2017 – December 2, 2017

Date: Wednesday, December 6, 2017

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPPH)
775-328-2447 kchalkley@washoecounty.us

Summary: Eleven of the twelve participating providers in Washoe County reported a total of 142 patients with influenza-like-illness (ILI) for week ending December 2, 2017 (week 48). The percentage of persons seen with ILI by the eleven providers was 2.1% (142/6708) which is below the regional baseline of 2.4%. During week 47, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.4%. Nationwide during week 47 the percentage of visits to sentinel providers due to ILI was 2.3% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 1.0% to 4.2%. Four regions (Regions 1, 4, 6, and 7) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

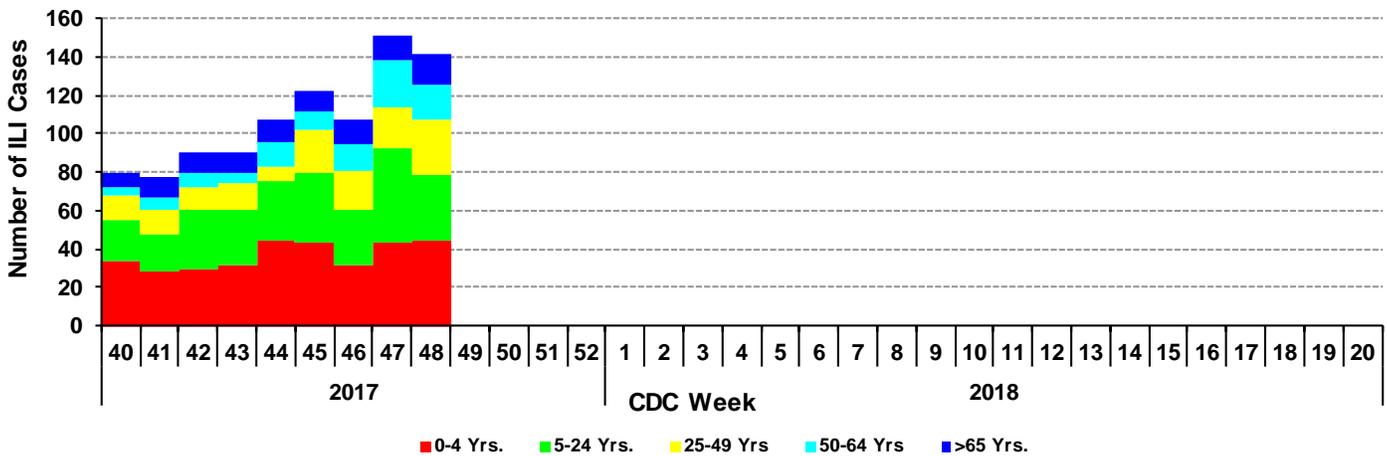
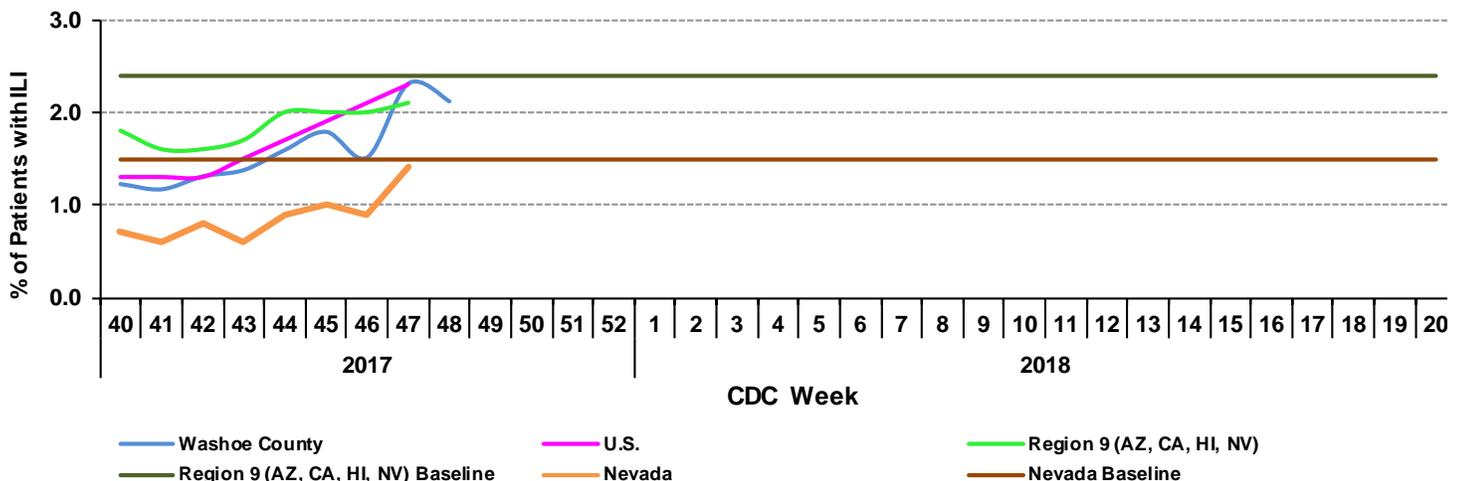


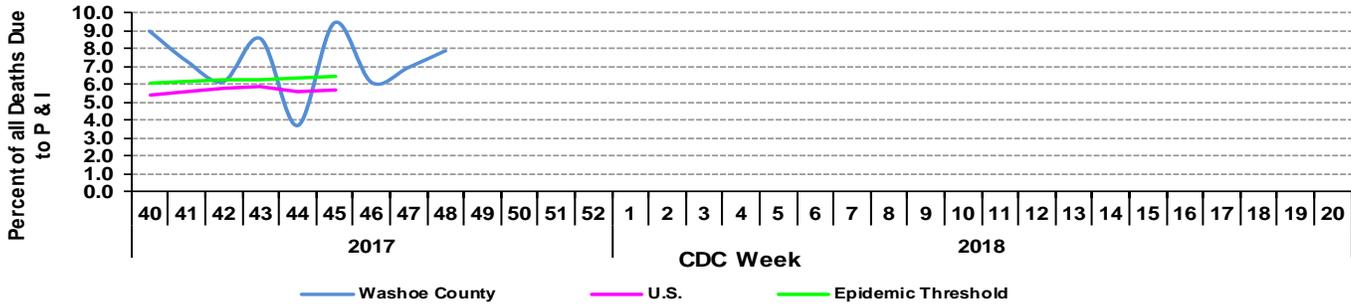
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Nine death certificates were received for week 48 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 48 was 114. This reflects a P&I ratio of 7.9% which is above the epidemic threshold set by CDC for week 45 at 6.5%. The national P&I for week 45 was below the epidemic threshold at 5.7%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 56. This reflects an overall P&I ratio of 7.2% (56/782).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
48	0	

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
3	2	0	1	0

Washoe County Total: 670 Influenza type A: 517 Influenza type B: 85 Influenza unk type: 68

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 48) November 26, 2017 - December 2, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - December 2, 2017									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	149	22	14.8	10	45.5	1	0.7	0	0.0	670	79	11.8	23	29.1	7	1.0	2	0.3		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	2	1	1.3	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	4	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	18	2	2.5	0	0.0	0	0.0	0	0.0		
Influenza A (not subtyped)	47	16	72.7	8	50.0	1	100.0	0	#DIV/0!	165	53	67.1	19	35.8	6	85.7	2	100.0		
Influenza A (RIDT*)	62	3	13.6	0	0.0	0	0.0	0	#DIV/0!	332	14	17.7	1	7.1	1	14.3	0	0.0		
Influenza B (RIDT*)	17	1	4.5	0	0.0	0	0.0	0	#DIV/0!	70	3	3.8	0	0.0	0	0.0	0	0.0		
Influenza B (non-RIDT**)	3	2	9.1	2	100.0	0	0.0	0	#DIV/0!	15	5	6.3	3	60.0	0	0.0	0	0.0		
Influenza (unknown type, RIDT*)	16	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	68	1	1.3	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

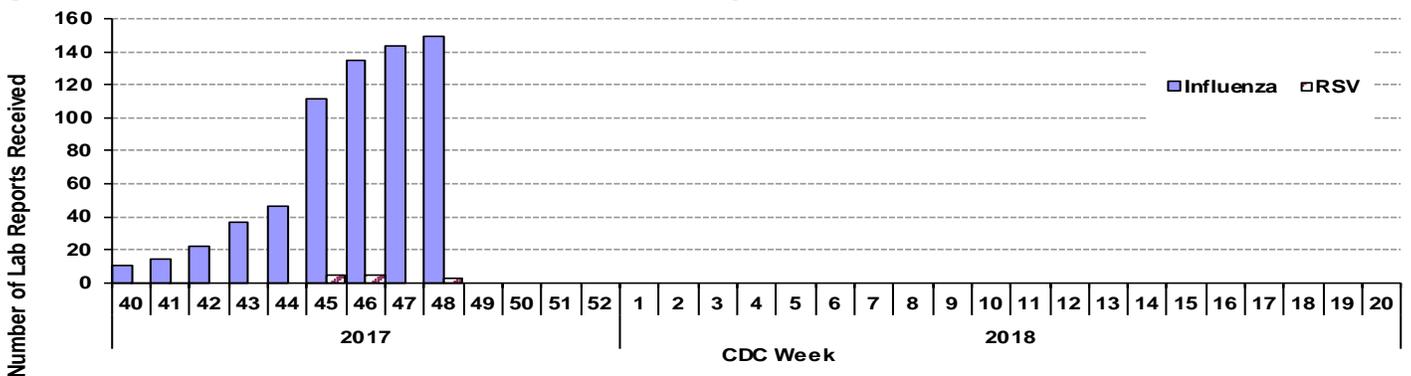


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

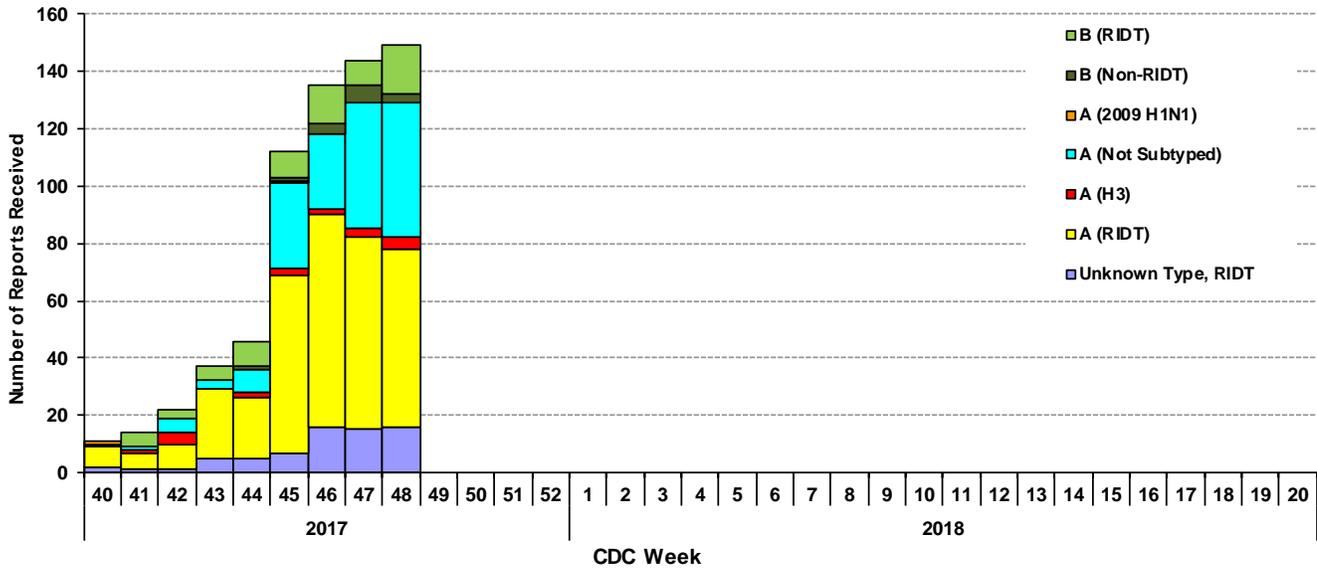


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

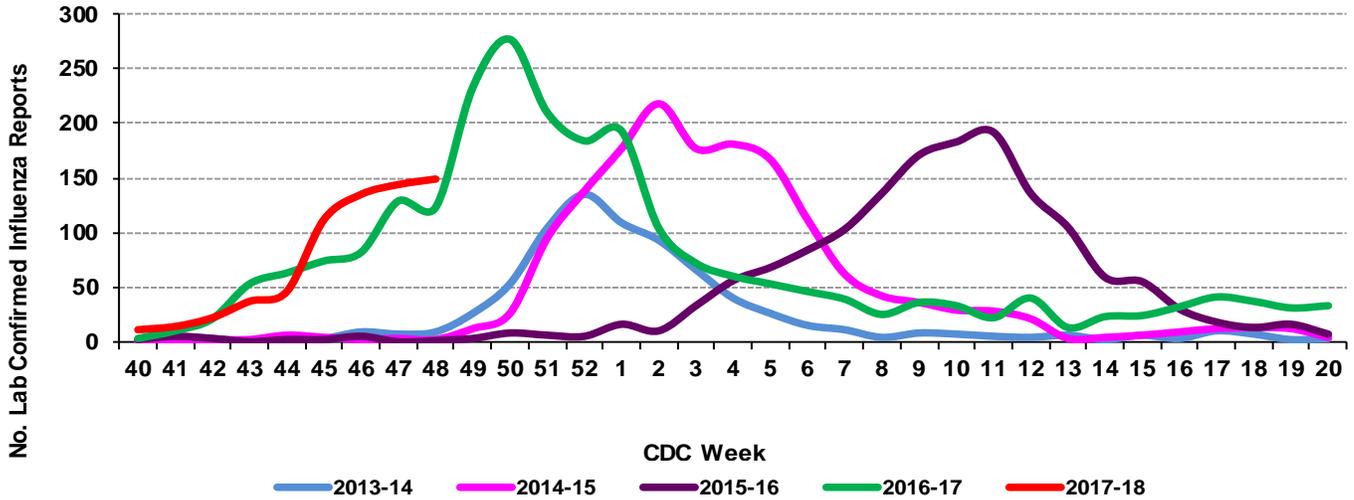
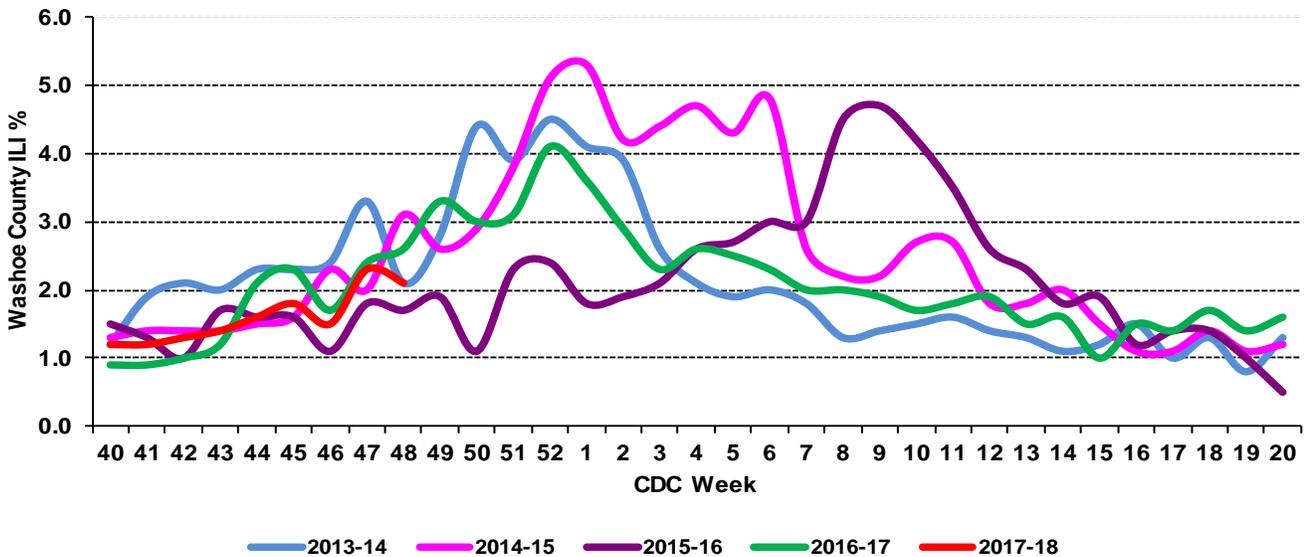
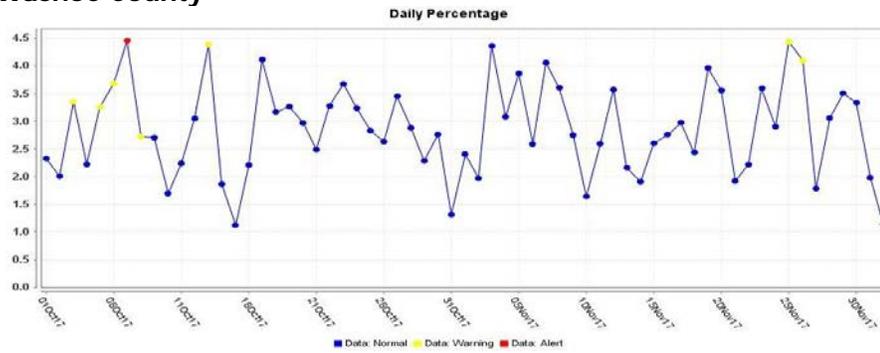


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

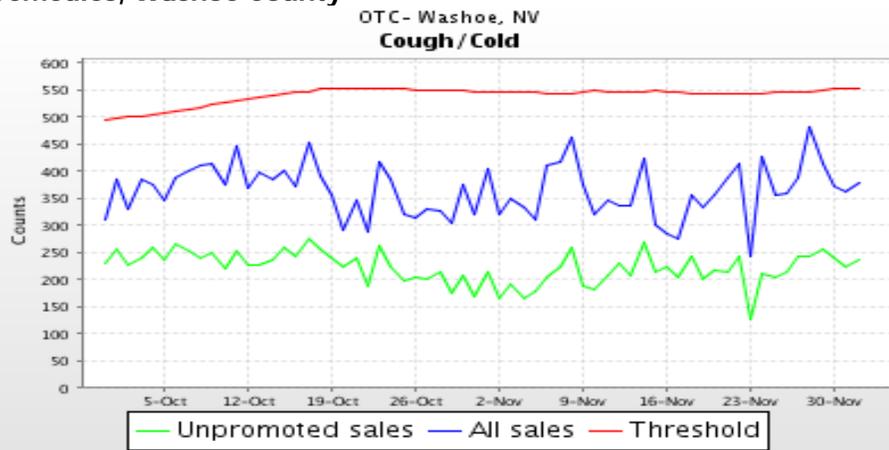


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

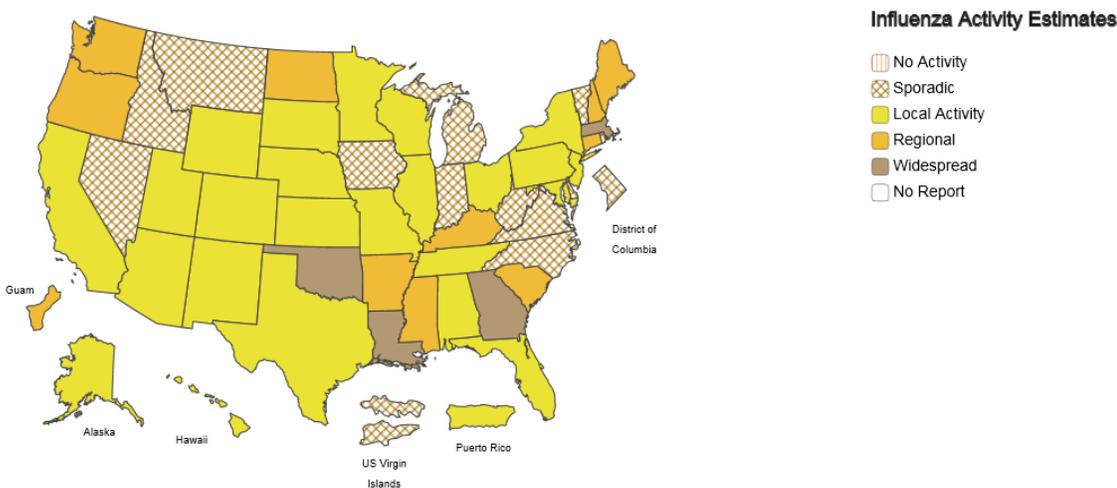


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Nov 25, 2017 - Week 47



During week 47, the following influenza activity was reported:

- Widespread influenza activity was reported by four states (Georgia, Louisiana, Massachusetts, and Oklahoma).
- Regional influenza activity was reported by Guam and 10 states (Arkansas, Connecticut, Kentucky, Maine, Mississippi, New Hampshire, North Dakota, Oregon, South Carolina, and Washington).
- Local influenza activity was reported by Puerto Rico and 24 states (Alabama, Alaska, Arizona, California, Colorado, Florida, Hawaii, Illinois, Kansas, Maryland, Minnesota, Missouri, Nebraska, New Jersey, New Mexico, New York, Ohio, Pennsylvania, South Dakota, Tennessee, Texas, Utah, Wisconsin, and Wyoming).
- **Sporadic** influenza activity was reported by the District of Columbia, the U.S. Virgin Islands and 12 states (Delaware, Idaho, Indiana, Iowa, Michigan, Montana, **Nevada**, North Carolina, Rhode Island, Vermont, Virginia, and West Virginia).

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #49: December 3, 2017 – December 9, 2017

Date: Wednesday, December 13, 2017

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPPH)
775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 162 patients with influenza-like-illness (ILI) for week ending December 9, 2017 (week 49). The percentage of persons seen with ILI by the twelve providers was 2.3% (162/6948) which is below the regional baseline of 2.4%. During week 48, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.8%. Nationwide during week 48 the percentage of visits to sentinel providers due to ILI was 2.3% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 1.0% to 4.7%. Four regions (Regions 1, 4, 6, and 7) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

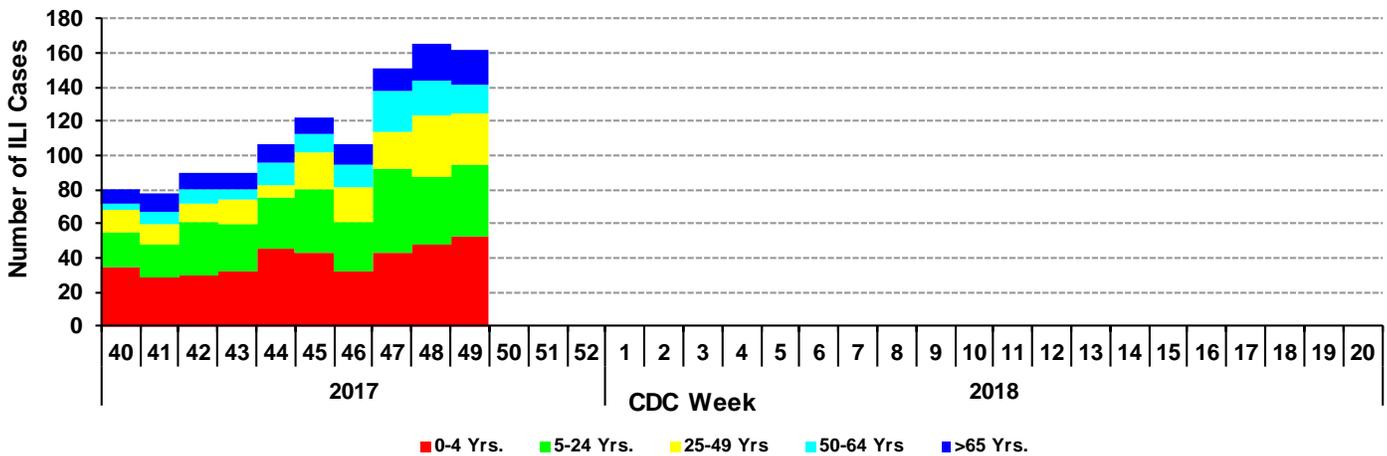
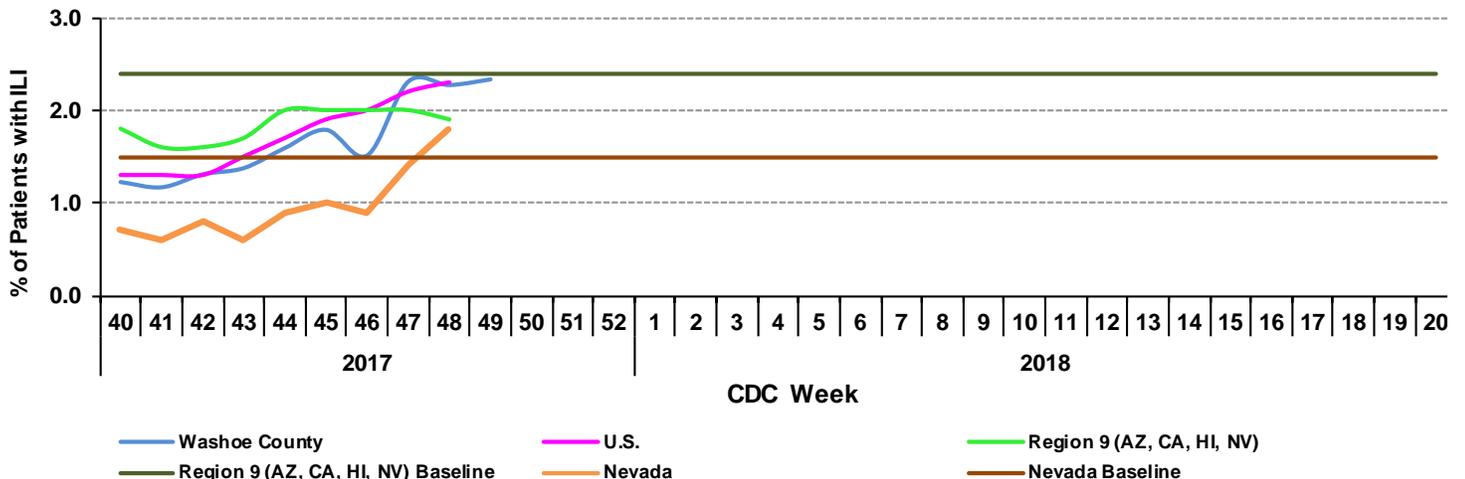


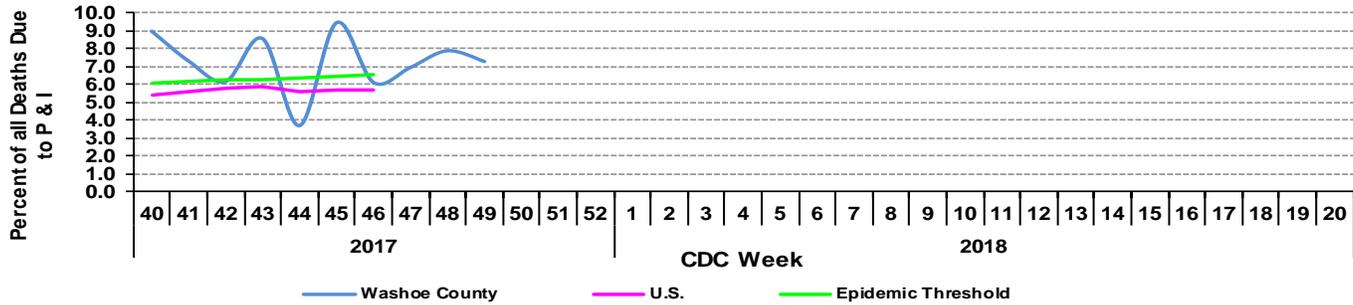
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Seven death certificates were received for week 49 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 49 was 96. This reflects a P&I ratio of 7.3% which is above the epidemic threshold set by CDC for week 46 at 6.6%. The national P&I for week 46 was below the epidemic threshold at 5.7%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 63. This reflects an overall P&I ratio of 7.2% (63/878).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
48	0	

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
3	2	0	1	0

Washoe County Total: 874 Influenza type A: 686 Influenza type B: 104 Influenza unk type: 84

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 48) December 3, 2017 - December 9, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - December 9, 2017									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	204	17	8.3	4	23.5	2	1.0	0	0.0	874	94	10.8	29	30.9	10	1.1	2	0.2		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	2	1	1.1	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	18	2	2.1	1	50.0	0	0.0	0	0.0		
Influenza A (not subtyped)	43	11	64.7	3	27.3	2	100.0	0	#DIV/0!	209	64	68.1	23	35.9	9	90.0	2	100.0		
Influenza A (RIDT*)	125	4	23.5	1	25.0	0	0.0	0	#DIV/0!	457	17	18.1	2	11.8	1	10.0	0	0.0		
Influenza B (RIDT*)	16	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	85	2	2.1	0	0.0	0	0.0	0	0.0		
Influenza B (non-RIDT**)	4	2	11.8	0	0.0	0	0.0	0	#DIV/0!	19	7	7.4	3	42.9	0	0.0	0	0.0		
Influenza (unknown type, RIDT*)	16	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	84	1	1.1	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

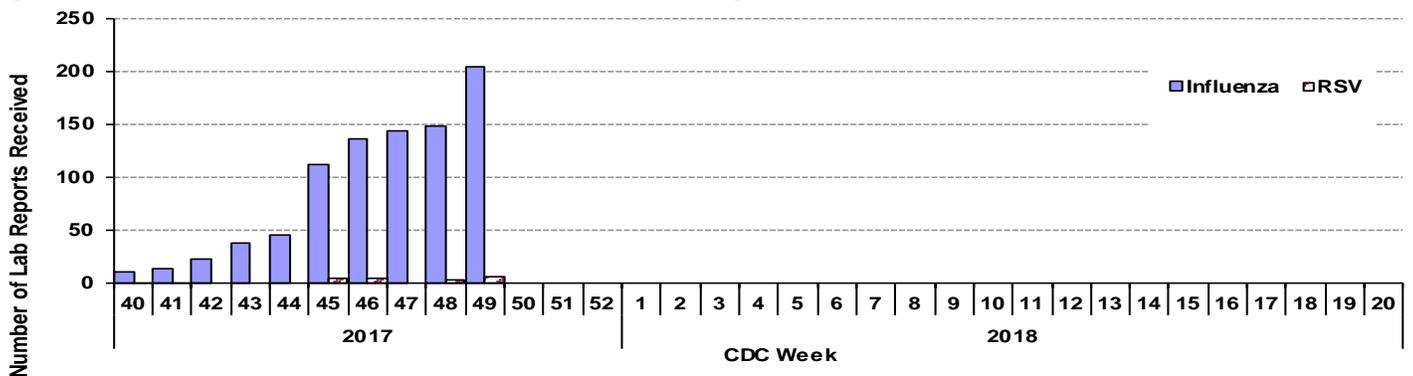


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

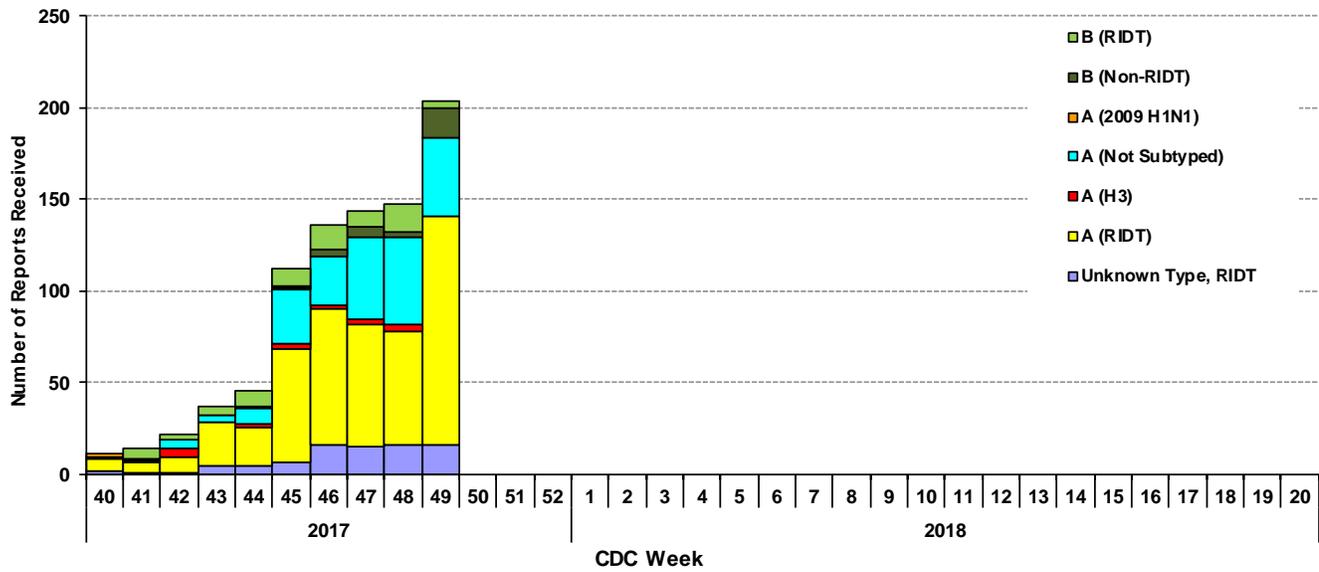


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

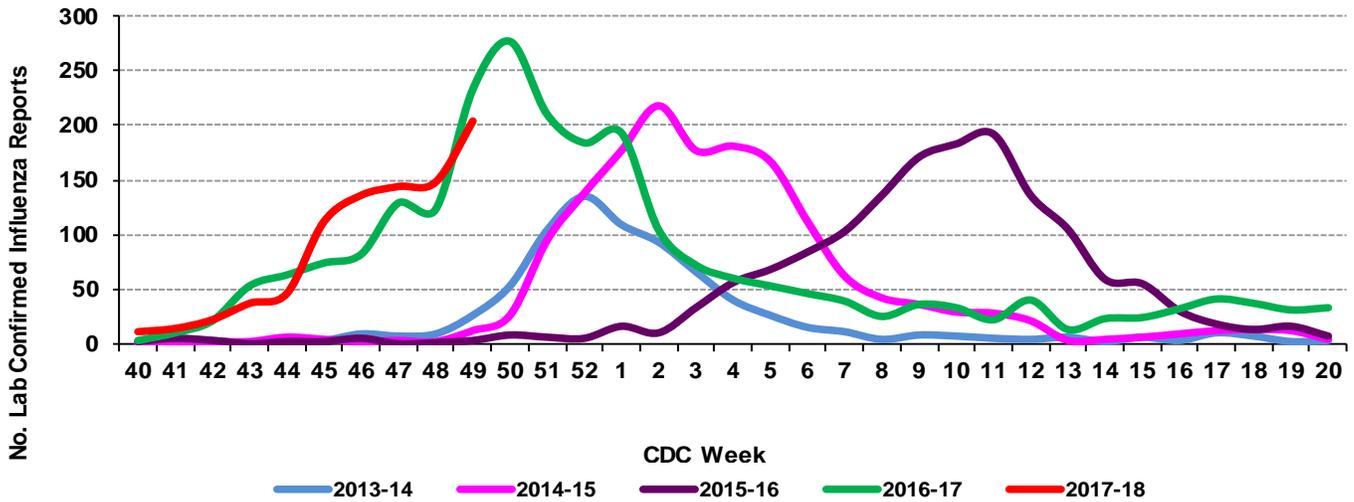
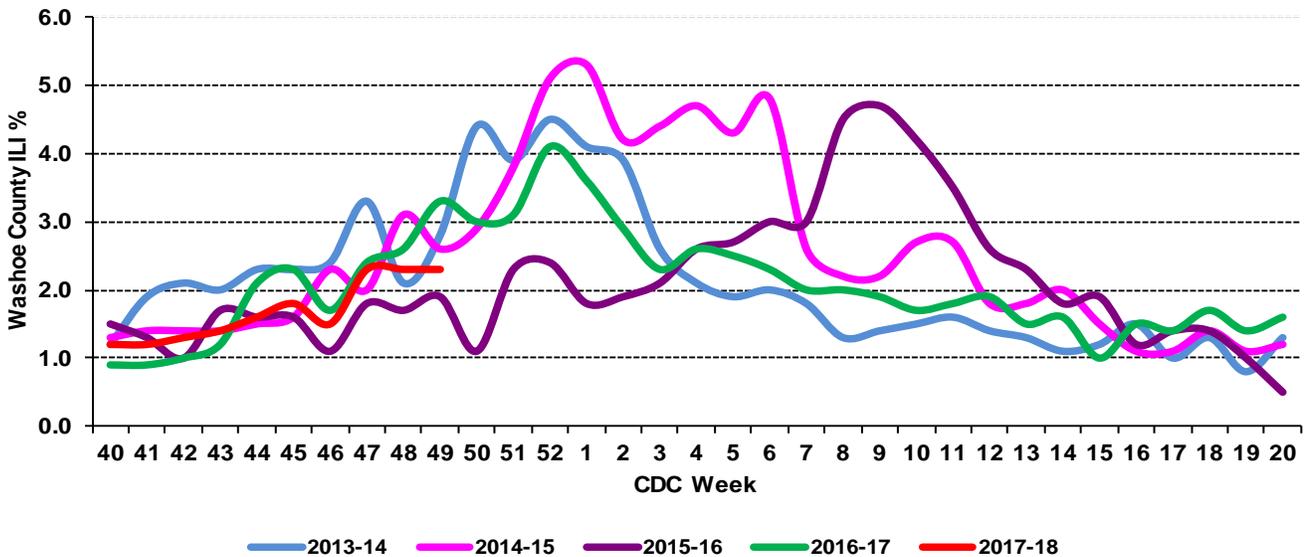
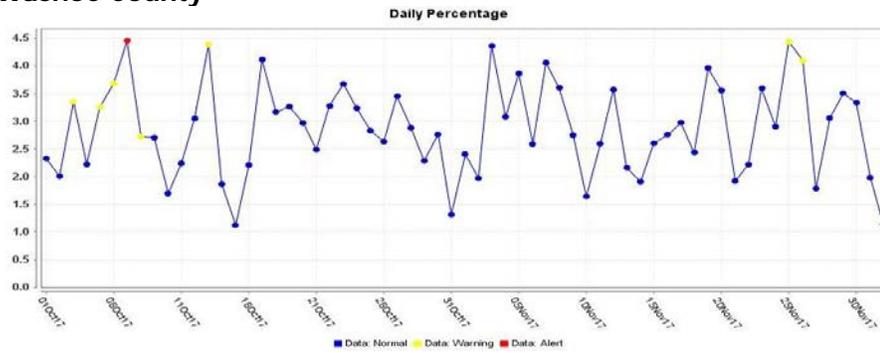


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

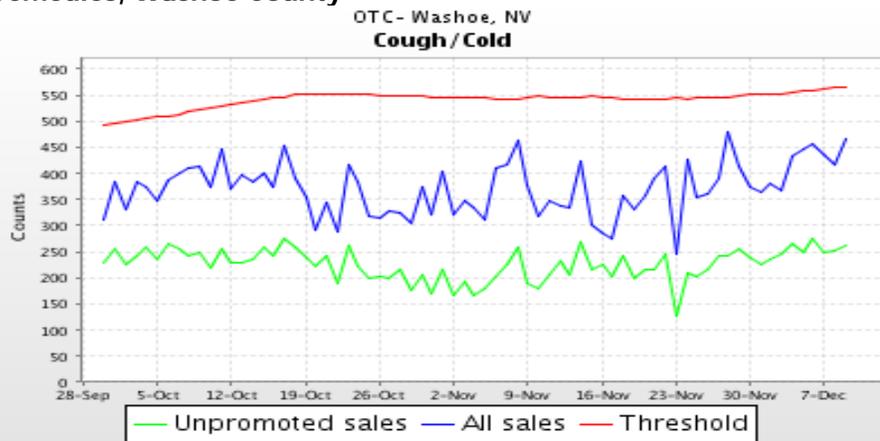


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

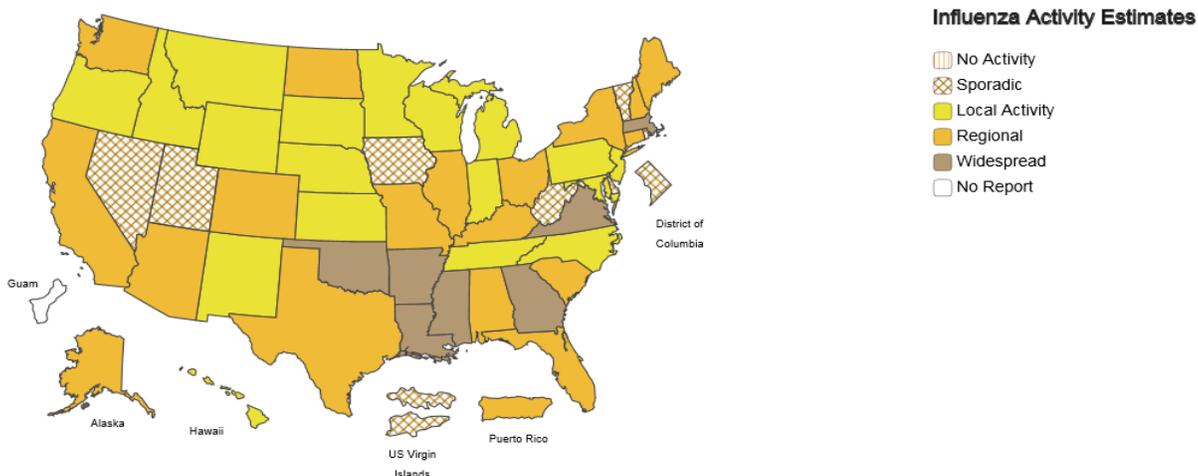


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor
Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Dec 02, 2017 - Week 48



During week 48, the following influenza activity was reported:

- Widespread influenza activity was reported by seven states (Arkansas, Georgia, Louisiana, Massachusetts, Mississippi, Oklahoma, and Virginia).
- Regional influenza activity was reported by Puerto Rico and 18 states (Alabama, Alaska, Arizona, California, Colorado, Connecticut, Florida, Illinois, Kentucky, Maine, Missouri, New Hampshire, New York, North Dakota, Ohio, South Carolina, Texas, and Washington).
- Local influenza activity was reported by 18 states (Hawaii, Idaho, Indiana, Kansas, Maryland, Michigan, Minnesota, Montana, Nebraska, New Jersey, New Mexico, North Carolina, Oregon, Pennsylvania, South Dakota, Tennessee, Wisconsin, and Wyoming).
- **Sporadic** influenza activity was reported by the District of Columbia, the U.S. Virgin Islands and seven states (Delaware, Iowa, **Nevada**, Rhode Island, Utah, Vermont, and West Virginia).

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #50: December 10, 2017 – December 16, 2017

Date: Wednesday, December 20, 2017

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPHP)
775-328-2447 kchalkley@washoecounty.us

Summary: Eleven of the twelve participating providers in Washoe County reported a total of 240 patients with influenza-like-illness (ILI) for week ending December 16, 2017 (week 50). The percentage of persons seen with ILI by the eleven providers was 3.7% (240/6569) which is above the regional baseline of 2.4%. During week 49, the percentage of patient visits to Nevada sentinel providers due to ILI was 2.2%. Nationwide during week 49 the percentage of visits to sentinel providers due to ILI was 2.7% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 1.2% to 5.3%. Seven regions (Regions 1, 2, 4, 5, 6, 7, and 9) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

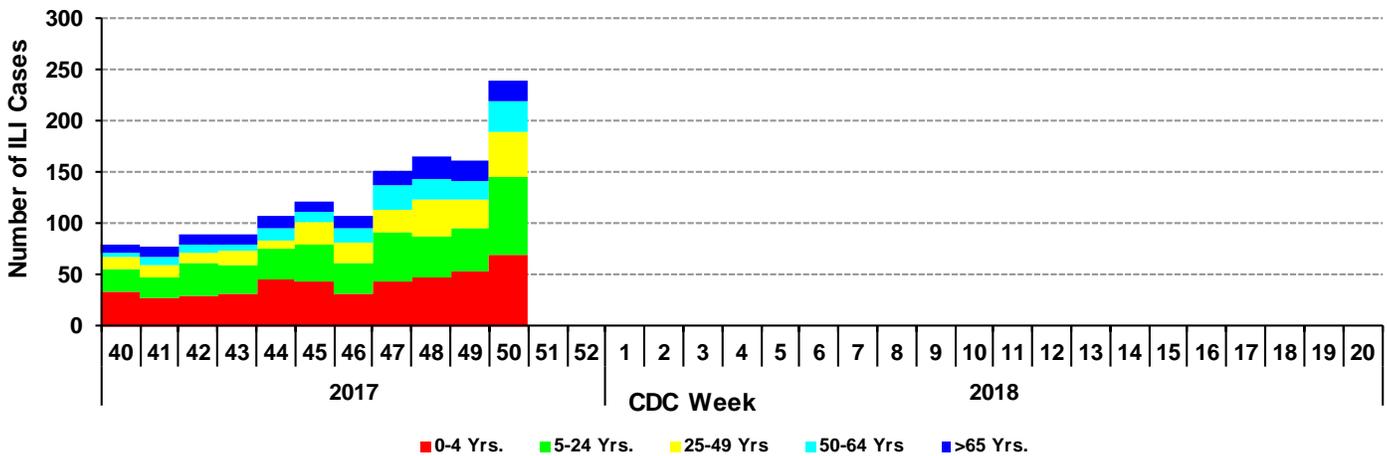
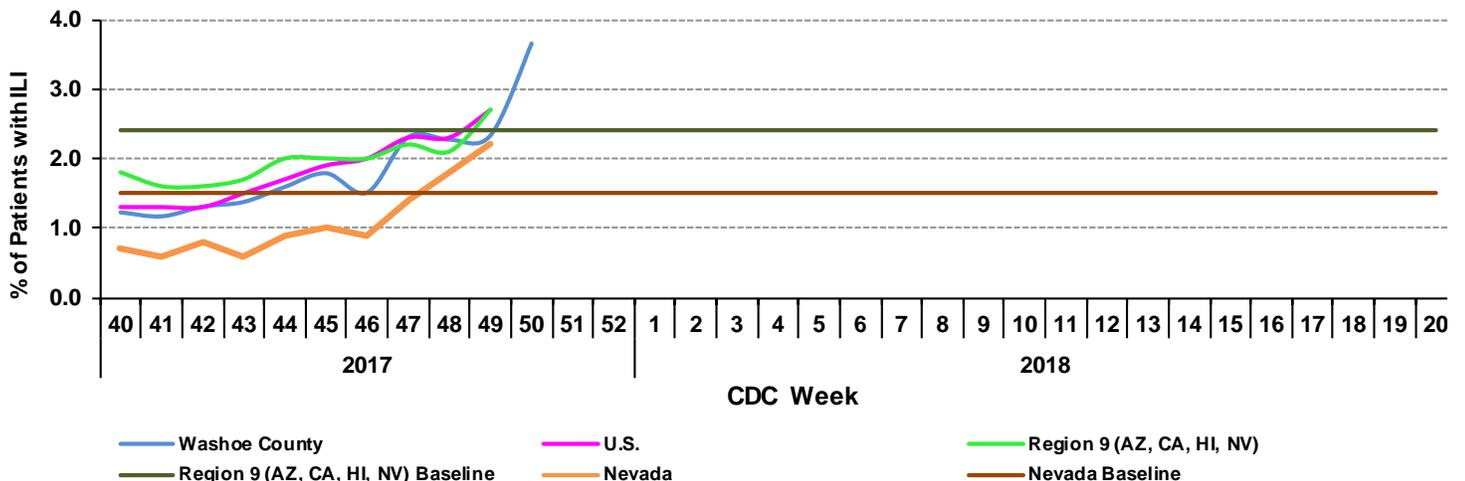


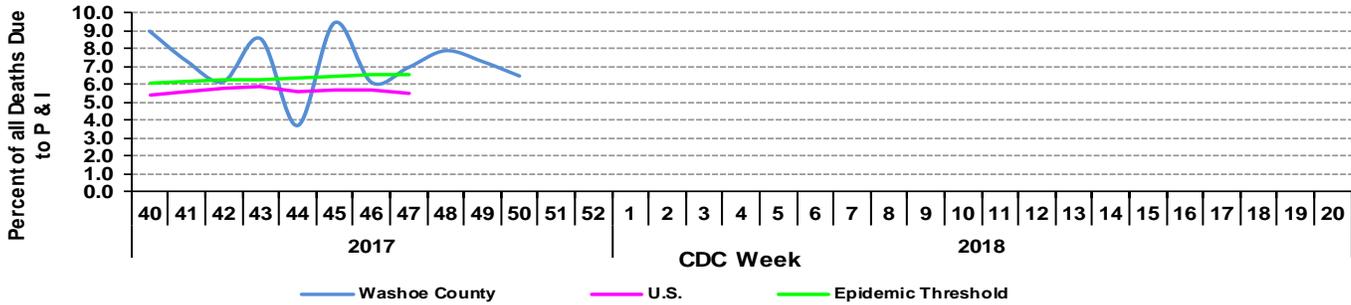
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Seven death certificates were received for week 50 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 50 was 108. This reflects a P&I ratio of 6.5% which is below the epidemic threshold set by CDC for week 47 at 6.6%. The national P&I for week 47 was below the epidemic threshold at 5.5%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 70. This reflects an overall P&I ratio of 7.1% (70/986).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
50	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
3	2	0	1	0

Washoe County Total: 1182 | Influenza type A: 938 | Influenza type B: 141 | Influenza unk type: 103

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 50) December 10, 2017 - December 16, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - December 16, 2017									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	301	30	10.0	9	30.0	8	2.7	0	0.0	1182	128	10.8	40	31.3	19	1.6	3	0.3		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	2	1	0.8	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	13	3	10.0	0	0.0	2	25.0	0	#DIV/0!	38	9	7.0	2	22.2	3	15.8	0	0.0		
Influenza A (not subtyped)	69	23	76.7	8	34.8	6	75.0	0	#DIV/0!	277	87	68.0	32	36.8	15	78.9	3	100.0		
Influenza A (RIDT*)	163	4	13.3	1	25.0	0	0.0	0	#DIV/0!	621	21	16.4	3	14.3	1	5.3	0	0.0		
Influenza B (RIDT*)	26	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	111	2	1.6	0	0.0	0	0.0	0	0.0		
Influenza B (non-RIDT**)	11	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	30	7	5.5	3	42.9	0	0.0	0	0.0		
Influenza (unknown type, RIDT*)	19	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	103	1	0.8	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

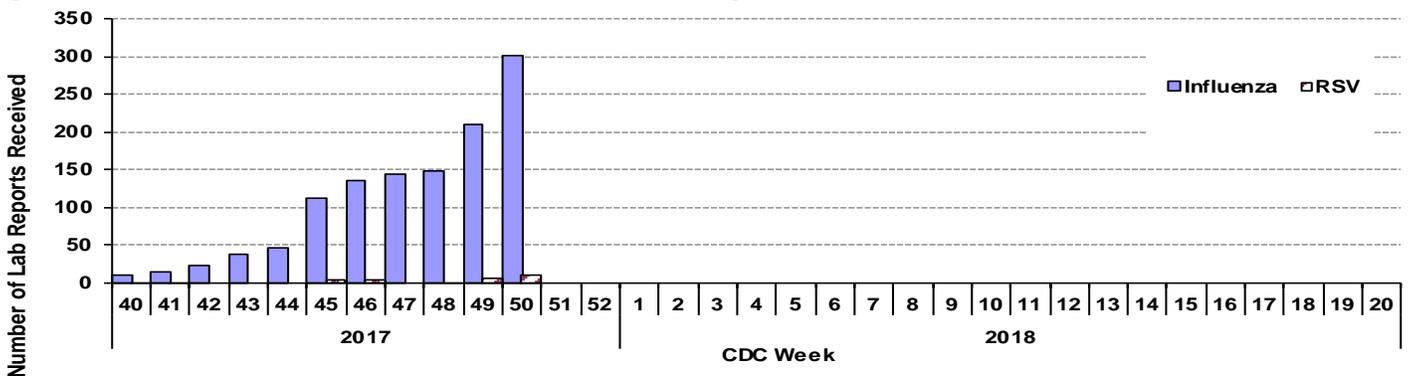


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

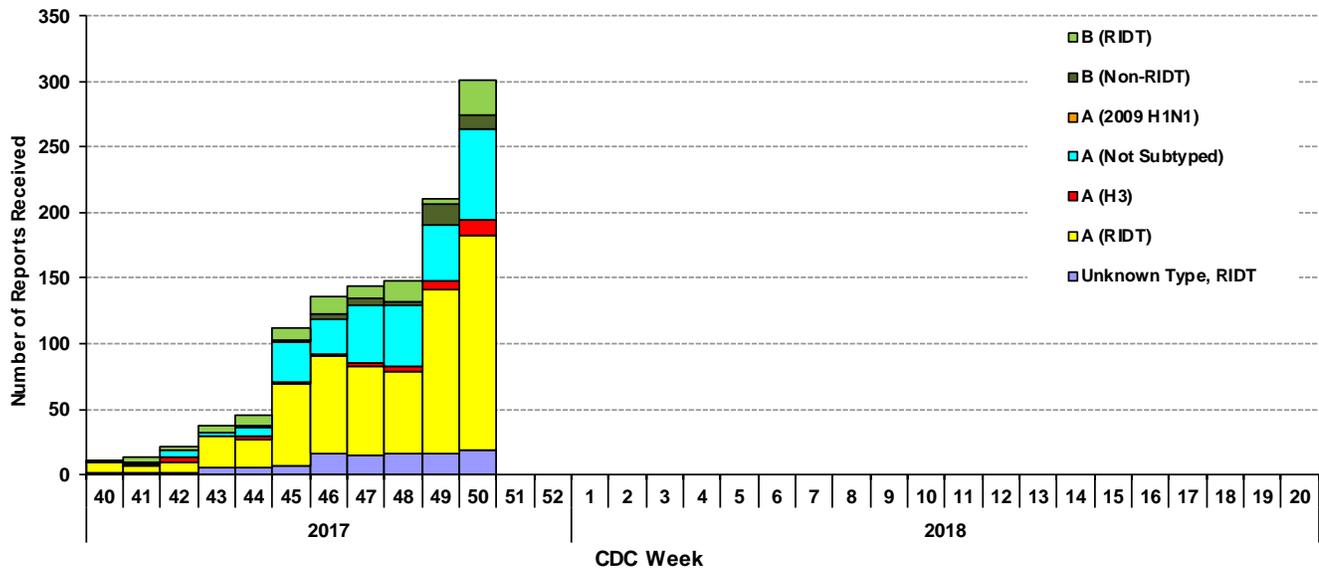


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

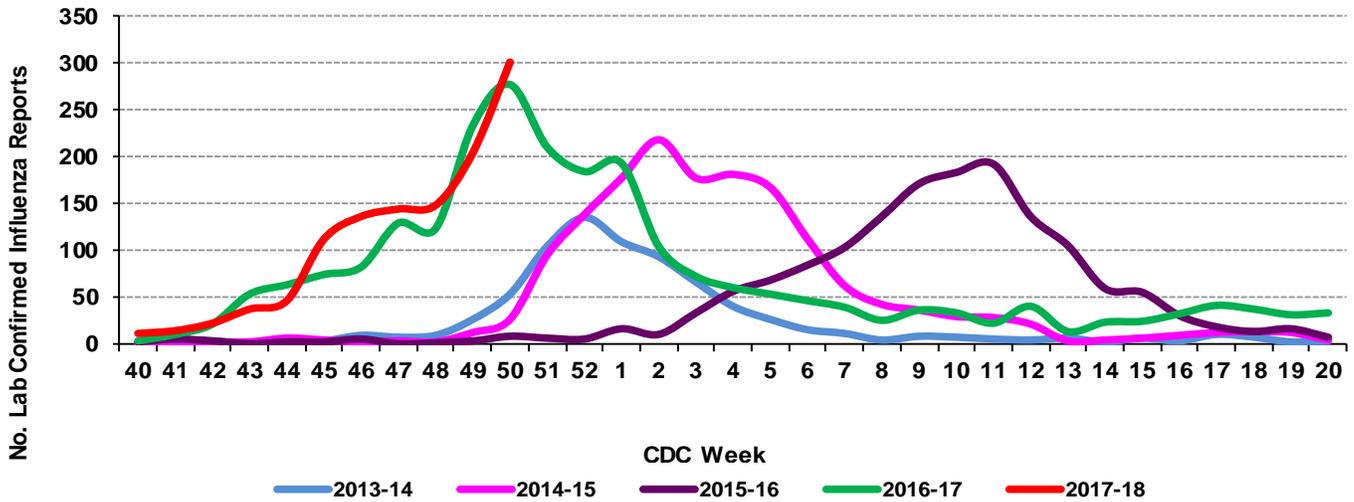
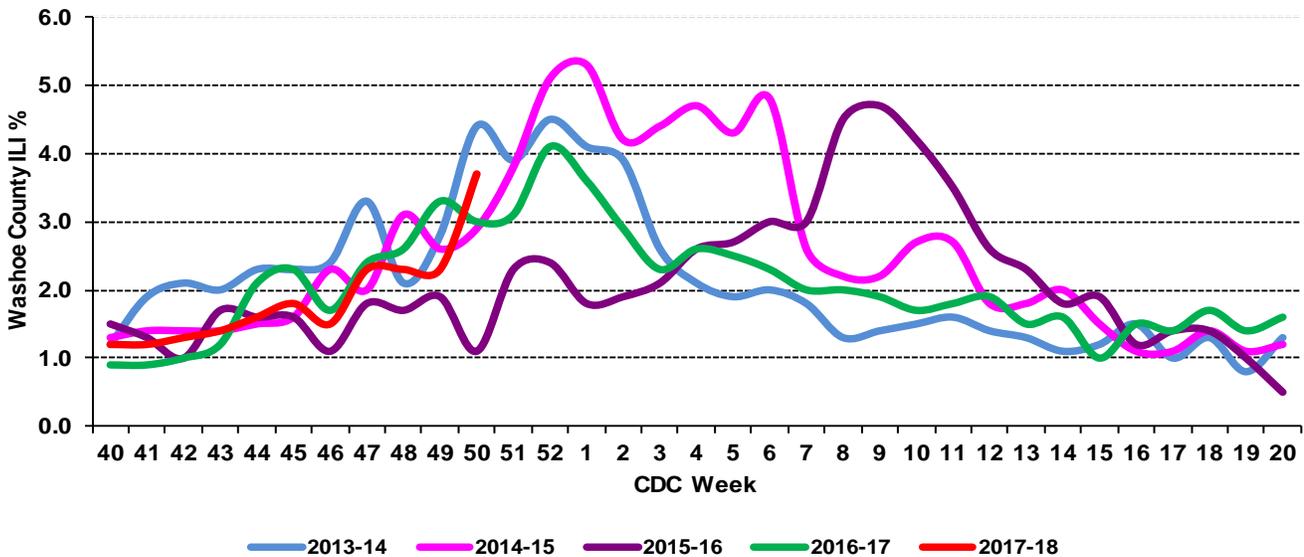
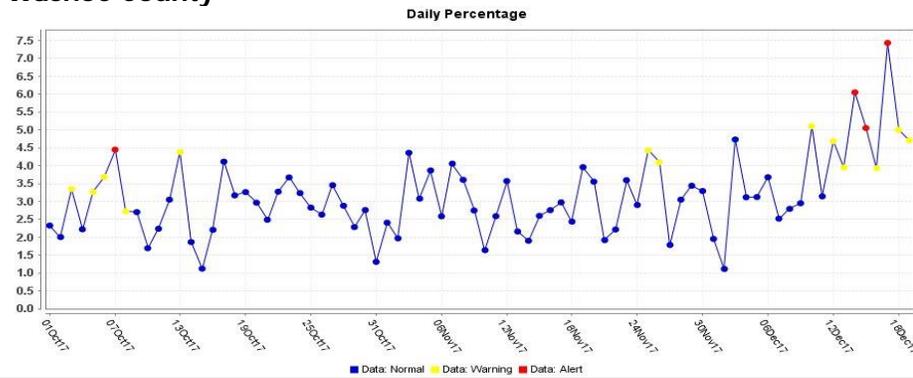


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

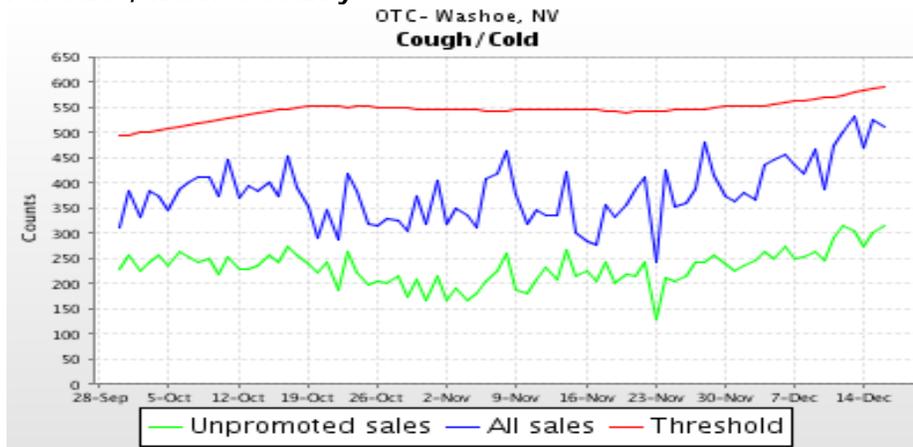
Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County



Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms. (Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

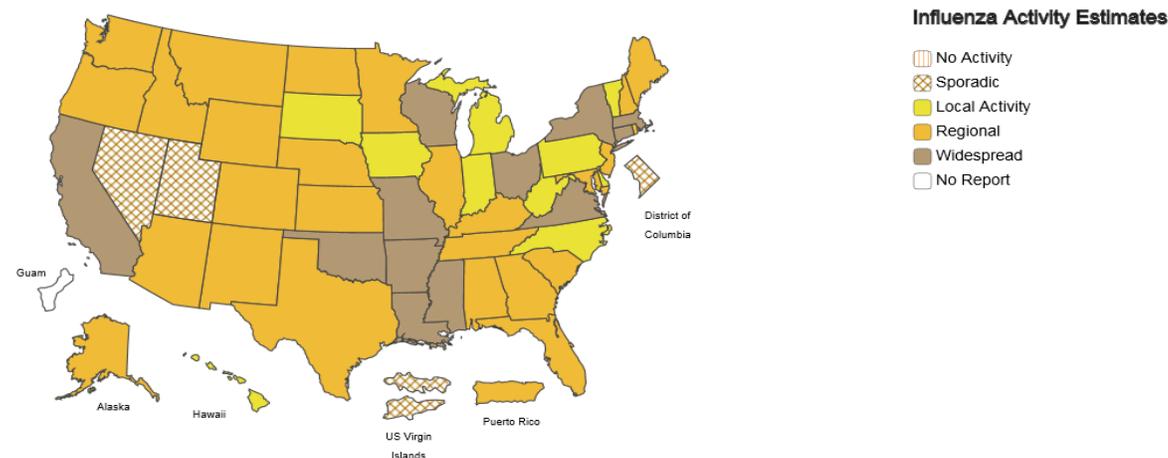


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Dec 09, 2017 - Week 49



During week 49, the following influenza activity was reported:

- Widespread influenza activity was reported by 12 states (Arkansas, California, Connecticut, Louisiana, Massachusetts, Mississippi, Missouri, New York, Ohio, Oklahoma, Virginia, and Wisconsin).
- Regional influenza activity was reported by Puerto Rico and 26 states (Alabama, Alaska, Arizona, Colorado, Florida, Georgia, Idaho, Illinois, Kansas, Kentucky, Maine, Maryland, Minnesota, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, North Dakota, Oregon, Rhode Island, South Carolina, Tennessee, Texas, Washington, and Wyoming).
- Local influenza activity was reported by 10 states (Delaware, Hawaii, Indiana, Iowa, Michigan, North Carolina, Pennsylvania, South Dakota, Vermont, and West Virginia).
- **Sporadic** influenza activity was reported by the District of Columbia, the U.S. Virgin Islands and two states (Nevada and Utah).

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #52: December 24, 2017 – December 30, 2017

Date: Friday, January 5, 2018

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPHP)
775-328-2447 kchalkley@washoecounty.us

Note: **Due to the high volume of reports over recent weeks, the total number of confirmed cases presented in Table 1 and Figures 4-6 are current through Week 51 (December 17 – 23). The total number of confirmed cases for Week 52 will be presented in Week 1's report.**

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 494 patients with influenza-like-illness (ILI) for week ending December 30, 2017 (week 52). The percentage of persons seen with ILI by the twelve providers was 6.6% (494/7495) which is above the regional baseline of 2.4%. During week 51, the percentage of patient visits to Nevada sentinel providers due to ILI was 3.7%. Nationwide during week 51 the percentage of visits to sentinel providers due to ILI was 5.0% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 1.4% to 11.9%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

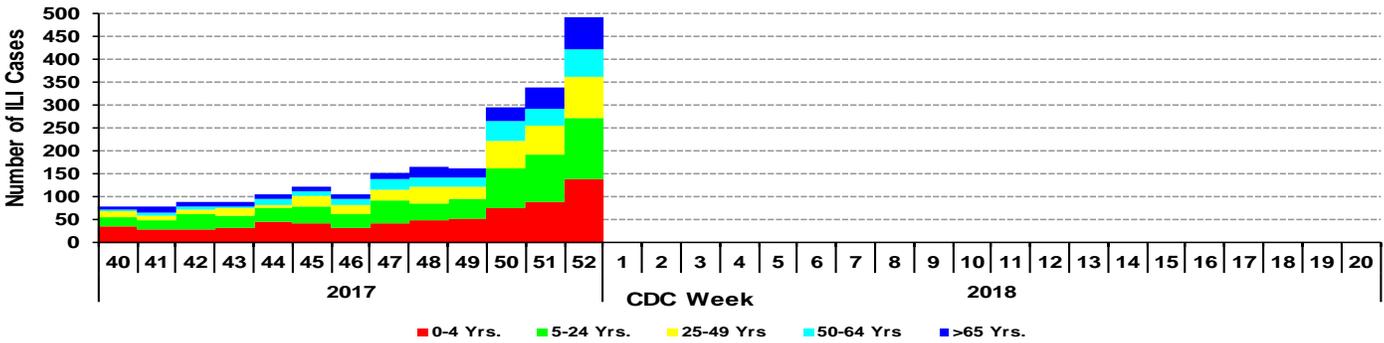
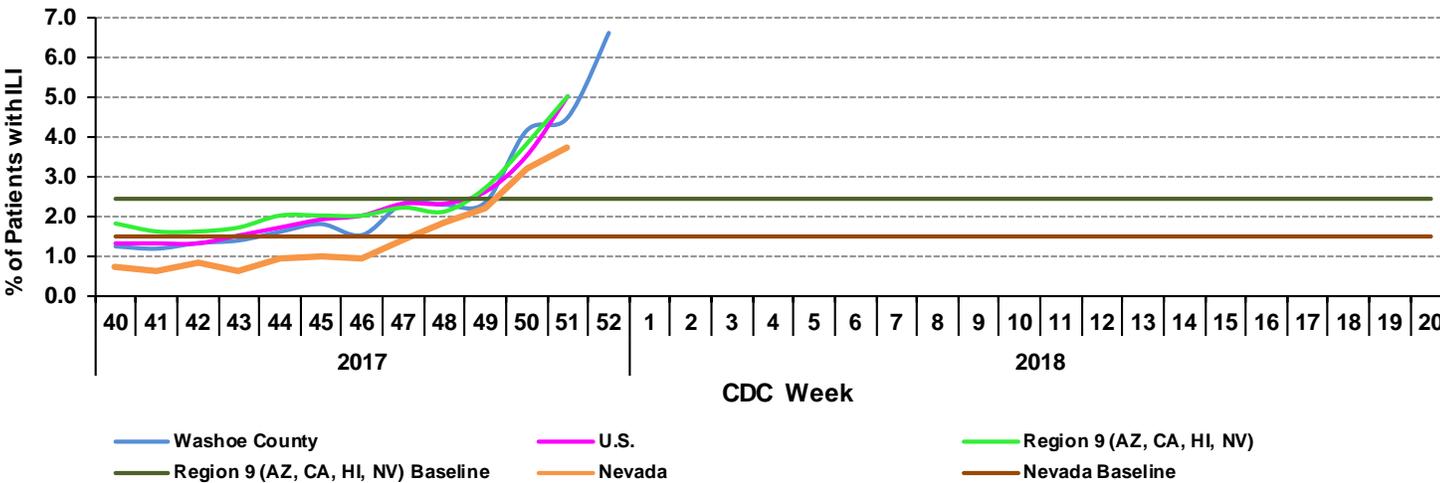


Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.

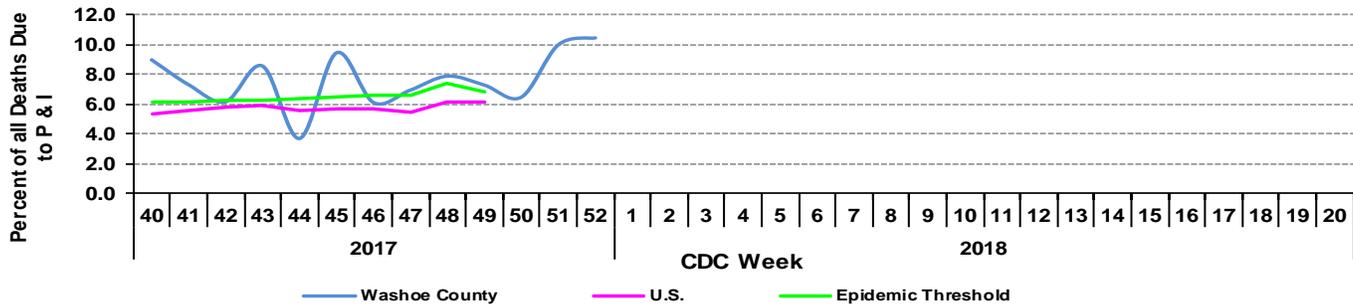


Data source for U.S., Region 9, and Nevada ILI activity and baselines: CDC Flu View Weekly Influenza Surveillance Report, <https://www.cdc.gov/flu/weekly/index.htm>.

Pneumonia & Influenza Mortality:

Nine death certificates were received for week 52 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 52 was 86. This reflects a P&I ratio of 10.5% which is above the epidemic threshold set by CDC for week 49 at 6.8%. The national P&I for week 49 was below the epidemic threshold at 6.2%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 91. This reflects an overall P&I ratio of 7.6% (91/1192).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
51	4	4 A(H3)

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
9	8	0	1	0

Washoe County Total: 1,670 | Influenza type A: 1,315 | Influenza type B: 211 | Influenza unk type: 144

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 51) December 17, 2017 - December 24, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - December 24, 2017									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	483	52	10.8	21	40.4	8	1.7	0	0.0	1670	180	10.8	62	34.4	27	1.6	5	0.3		
Influenza A (2009 H1N1)	1	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	3	1	0.6	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	10	1	1.9	0	0.0	0	0.0	0	#DIV/0!	52	10	5.6	3	30.0	3	11.1	0	0.0		
Influenza A (not subtyped)	88	35	67.3	15	42.9	7	87.5	0	#DIV/0!	365	122	67.8	47	38.5	22	81.5	5	100.0		
Influenza A (RIDT*)	275	11	21.2	4	36.4	0	0.0	0	#DIV/0!	895	32	17.8	7	21.9	1	3.7	0	0.0		
Influenza B (RIDT*)	58	3	5.8	2	66.7	0	0.0	0	#DIV/0!	170	5	2.8	2	40.0	0	0.0	0	0.0		
Influenza B (non-RIDT**)	11	2	3.8	0	0.0	1	12.5	0	#DIV/0!	41	9	5.0	3	33.3	1	3.7	0	0.0		
Influenza (unknown type, RIDT*)	40	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	144	1	0.6	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

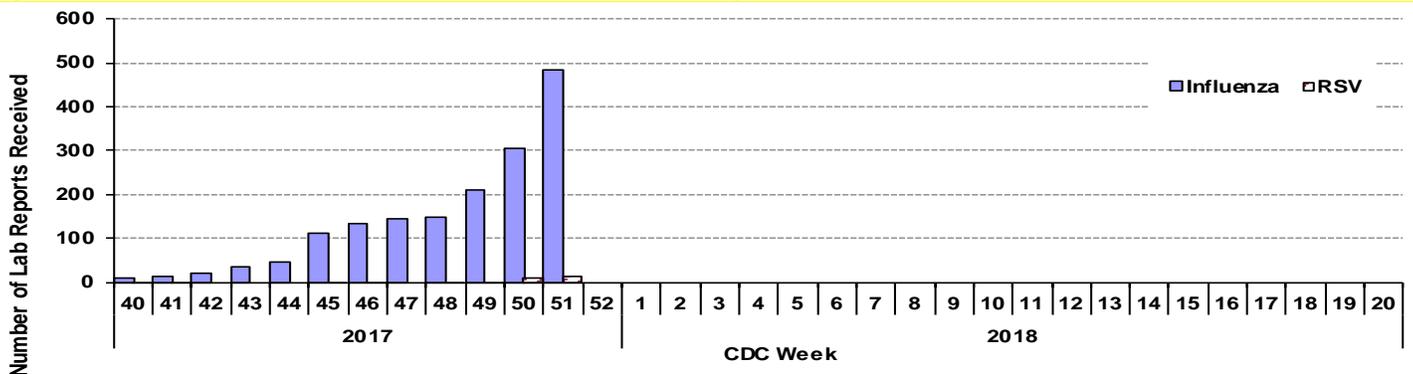


Figure 5. Influenza Positive Tests Reported, Washoe County Influenza Surveillance, 2017-2018.

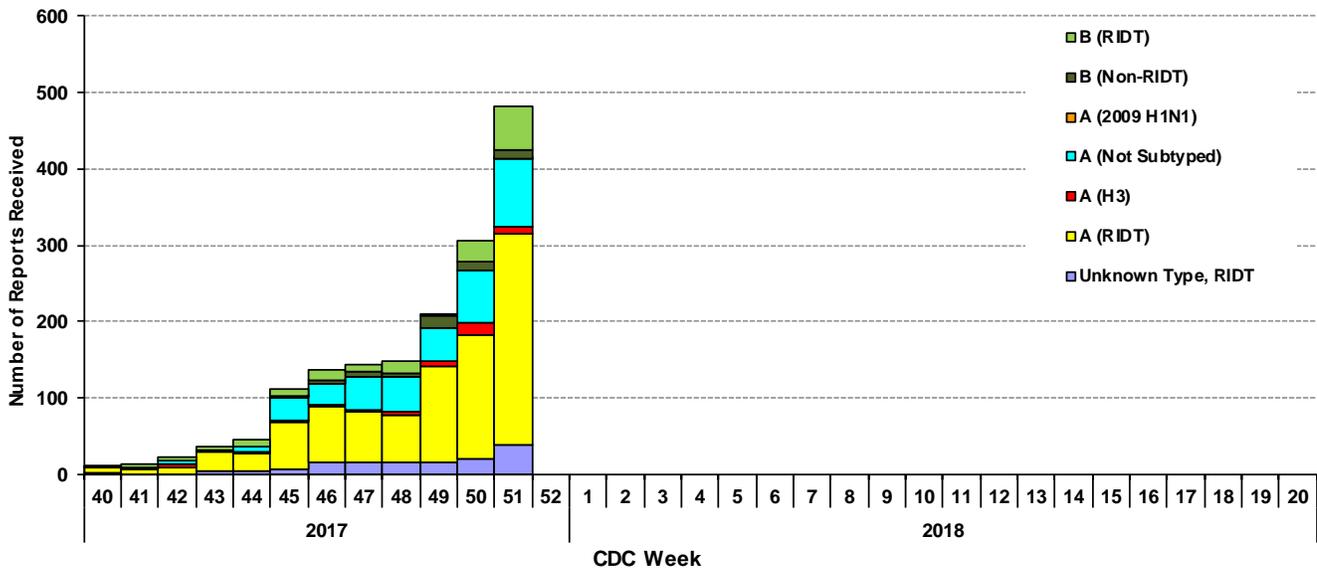


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

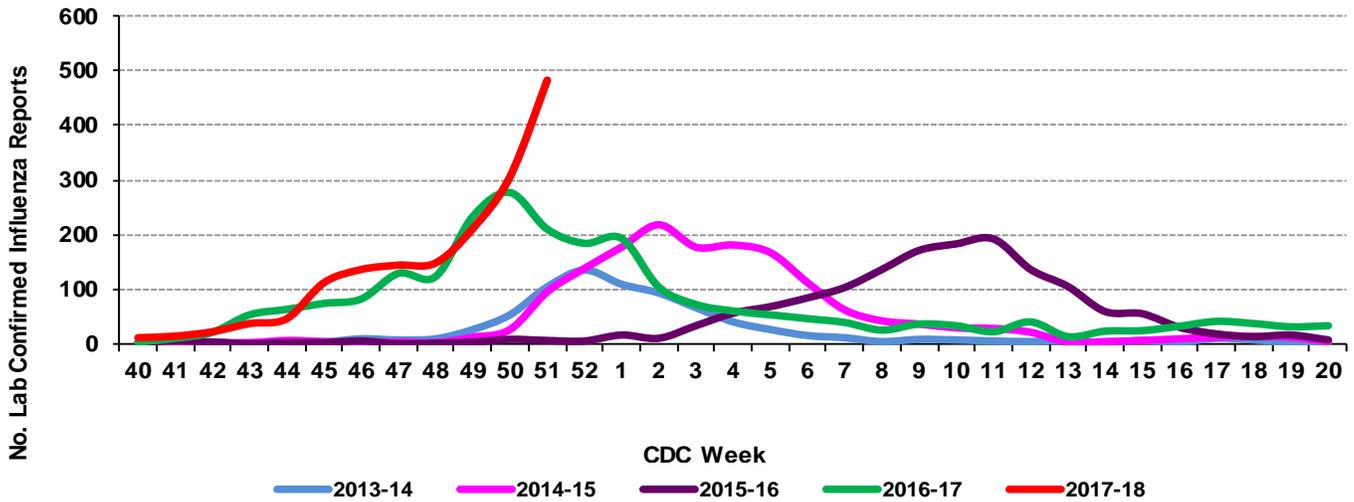
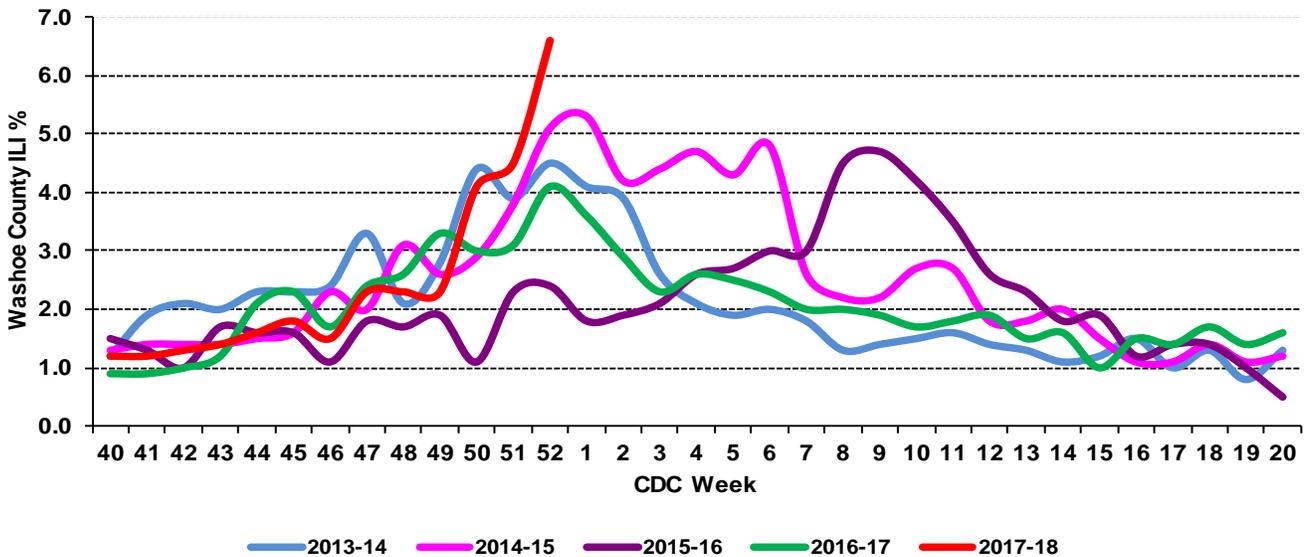
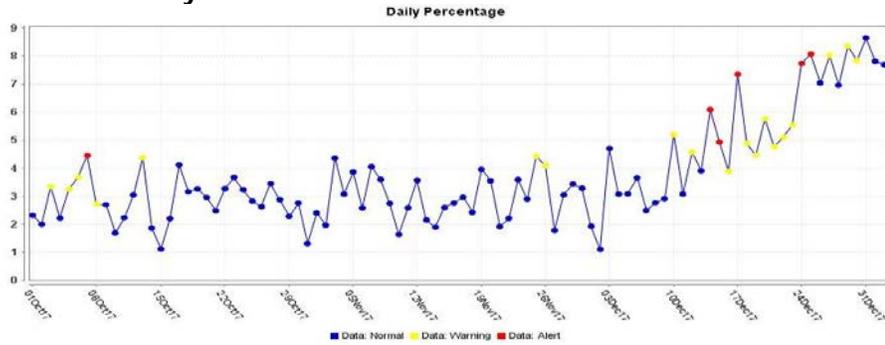


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

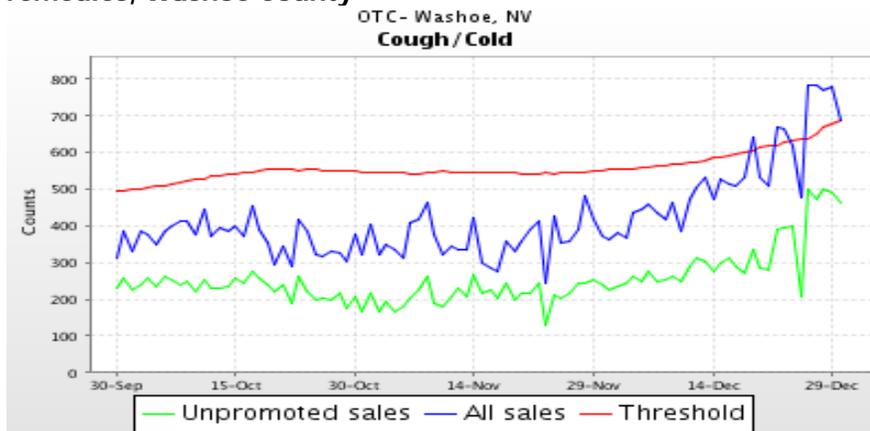


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County



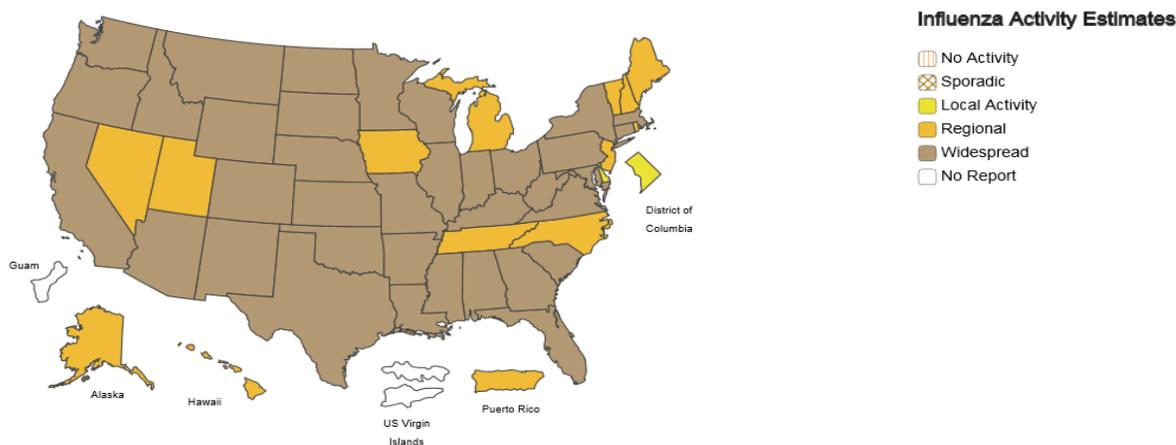
Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Dec 23, 2017 - Week 51



During week 51, the following influenza activity was reported:

- Widespread influenza activity was reported by 36 states (Alabama, Arizona, Arkansas, California, Colorado, Connecticut, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Minnesota, Mississippi, Missouri, Montana, Nebraska, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, South Carolina, South Dakota, Texas, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Regional influenza activity was reported by Puerto Rico and 13 states (Alaska, Hawaii, Iowa, Maine, Michigan, **Nevada**, New Hampshire, New Jersey, North Carolina, Rhode Island, Tennessee, Utah, and Vermont).
- Local influenza activity was reported by one state (Delaware).
- The District of Columbia, the U.S. Virgin Islands, and Guam did not report.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #1: December 31, 2017 – January 6, 2018

Date: Wednesday, January 10, 2018

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPHP)
775-328-2447 kchalkley@washoecounty.us

Note: **Due to the high volume of reports over recent weeks, the total number of confirmed cases presented in Table 1 are current through Week 52 (December 24 – 30).**

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 448 patients with influenza-like-illness (ILI) for week ending January 6, 2018 (week 1). The percentage of persons seen with ILI by the twelve providers was 5.7% (448/7846) which is above the regional baseline of 2.4%. During week 52, the percentage of patient visits to Nevada sentinel providers due to ILI was 5.6%. Nationwide during week 52 the percentage of visits to sentinel providers due to ILI was 5.8% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 2.4% to 11.3%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

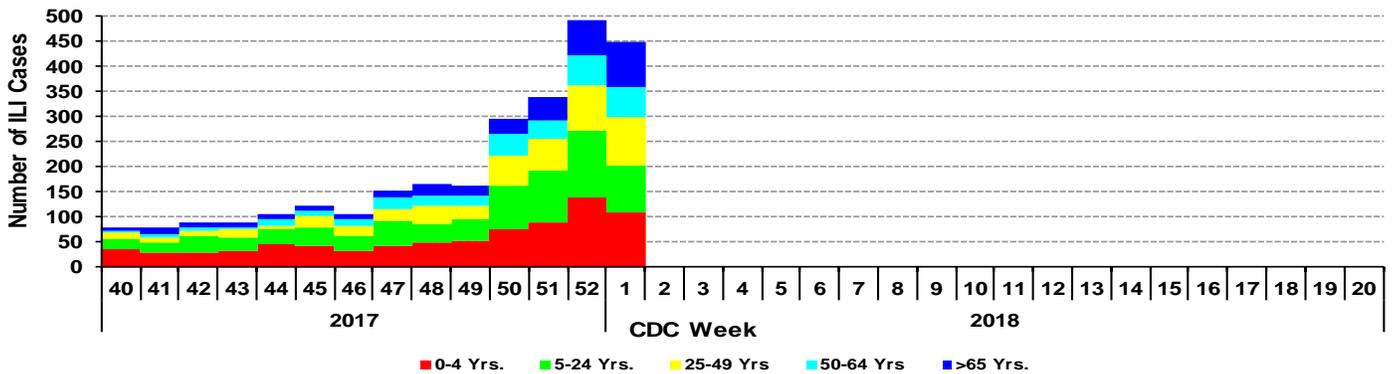
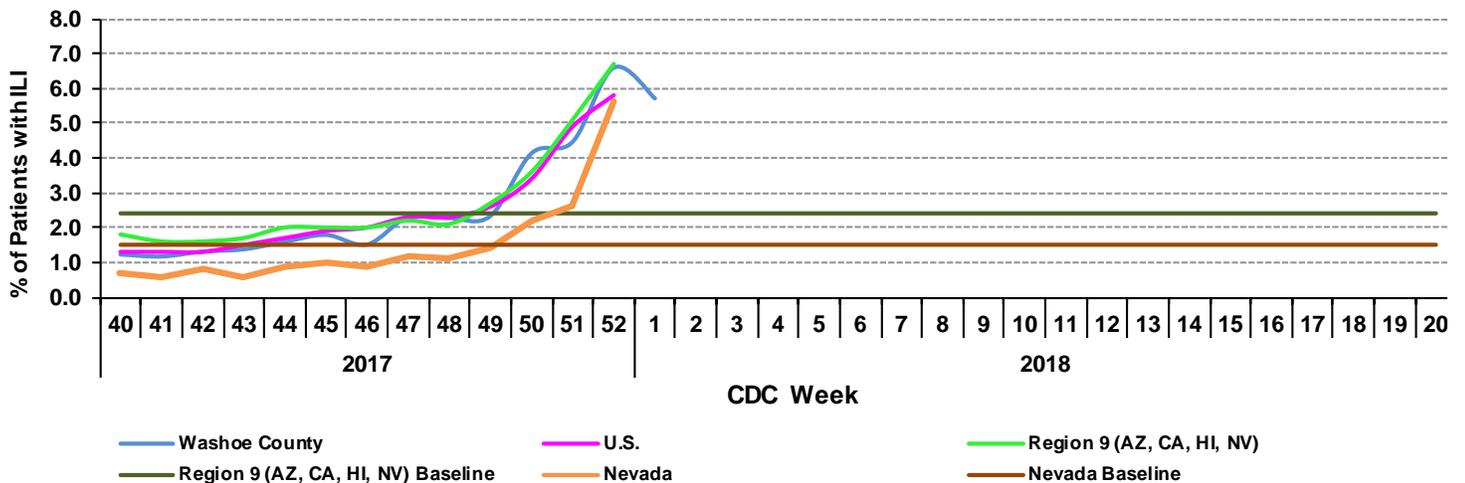


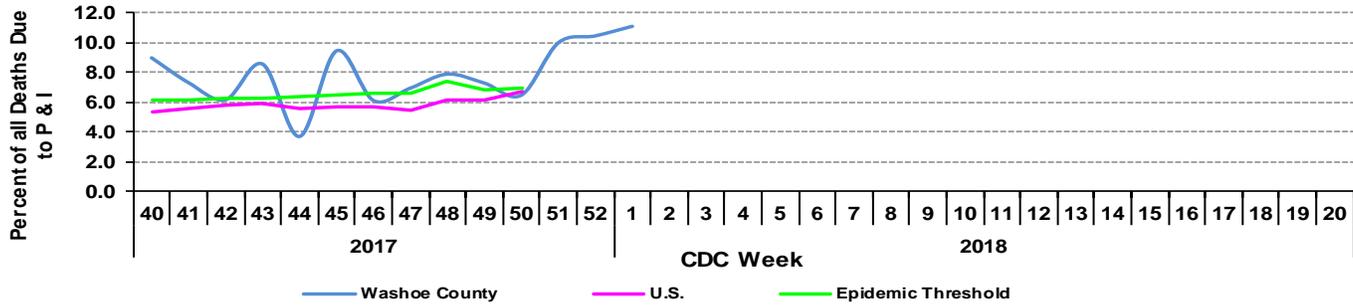
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Thirteen death certificates were received for week 1 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 1 was 117. This reflects a P&I ratio of 11.1% which is above the epidemic threshold set by CDC for week 50 at 6.9%. The national P&I for week 50 was below the epidemic threshold at 6.7%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 104. This reflects an overall P&I ratio of 7.9% (104/1309).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
52	2	2 A(H3)

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
11	10	0	1	0

Washoe County Total: 2,323 | Influenza type A: 1,822 | Influenza type B: 309 | Influenza unk type: 192

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 52) December 24, 2017 - December 30, 2017										Cumulative for 2017-2018 Influenza Season October 1, 2017 - December 30, 2017									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	656	71	10.8	28	39.4	14	2.1	1	0.2	2323	251	10.8	90	35.9	41	1.8	7	0.3		
Influenza A (2009 H1N1)	1	0	0.0	0	#DIV/0!	0	0.0	0	0.0	5	1	0.4	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	19	0	0.0	0	#DIV/0!	0	0.0	0	0.0	69	10	4.0	3	30.0	3	7.3	0	0.0		
Influenza A (not subtyped)	145	44	62.0	16	36.4	8	57.1	1	100.0	508	166	66.1	63	38.0	30	73.2	6	85.7		
Influenza A (RIDT*)	345	18	25.4	7	38.9	4	28.6	0	0.0	1240	50	19.9	14	28.0	5	12.2	0	0.0		
Influenza B (RIDT*)	63	1	1.4	1	100.0	0	0.0	0	0.0	233	6	2.4	3	50.0	0	0.0	0	0.0		
Influenza B (non-RIDT**)	35	8	11.3	4	50.0	2	14.3	0	0.0	76	17	6.8	7	41.2	3	7.3	1	14.3		
Influenza (unknown type, RIDT*)	48	0	0.0	0	#DIV/0!	0	0.0	0	0.0	192	1	0.4	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

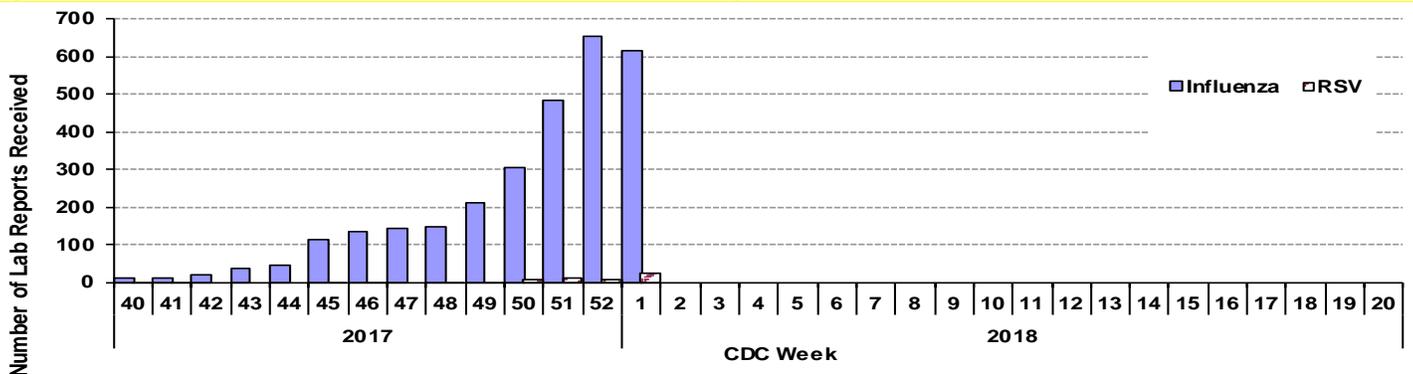


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

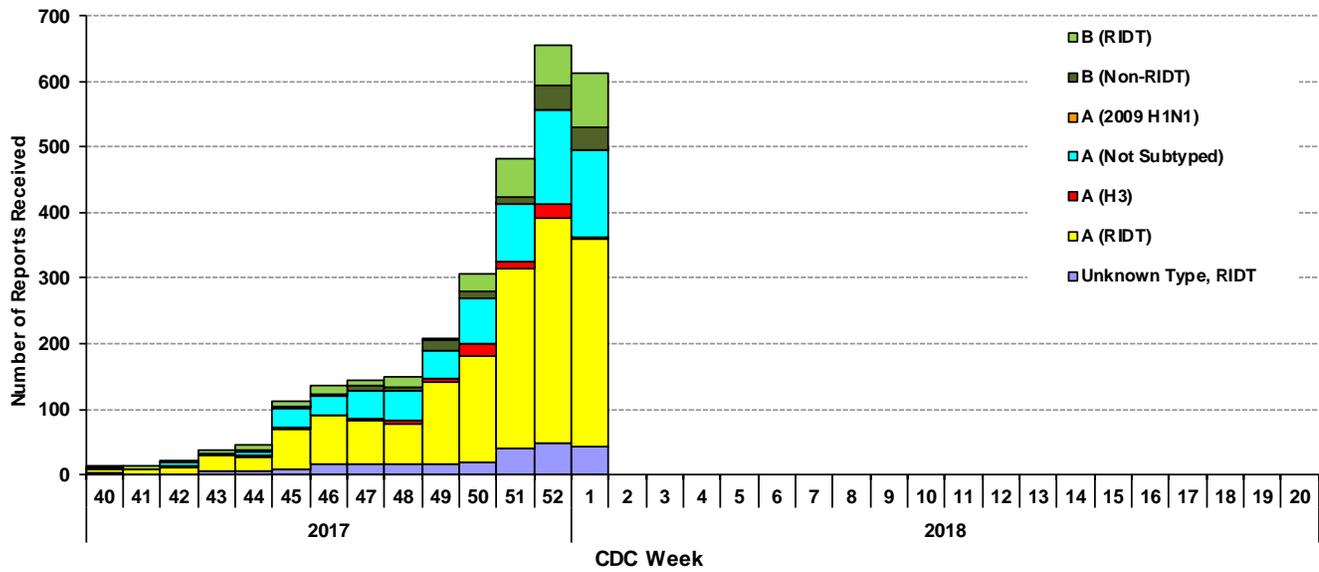


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

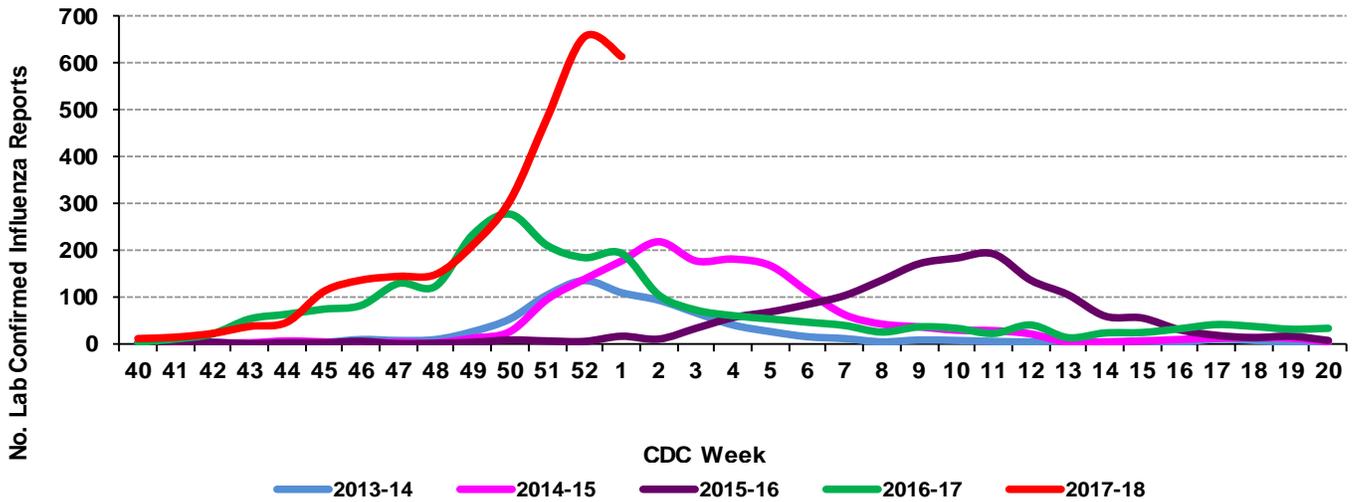
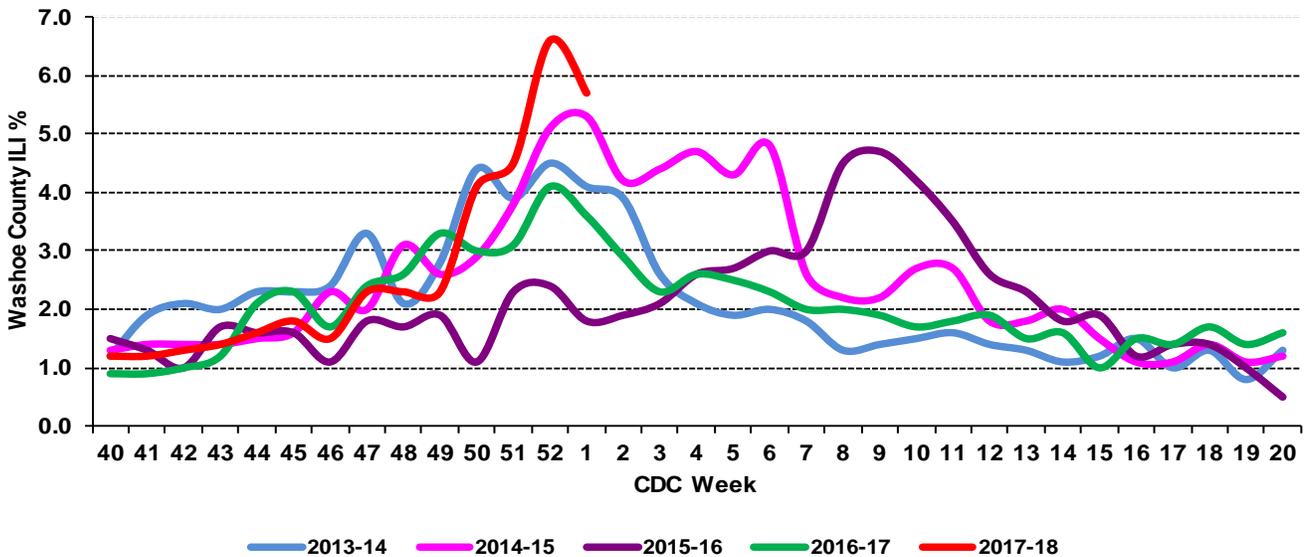
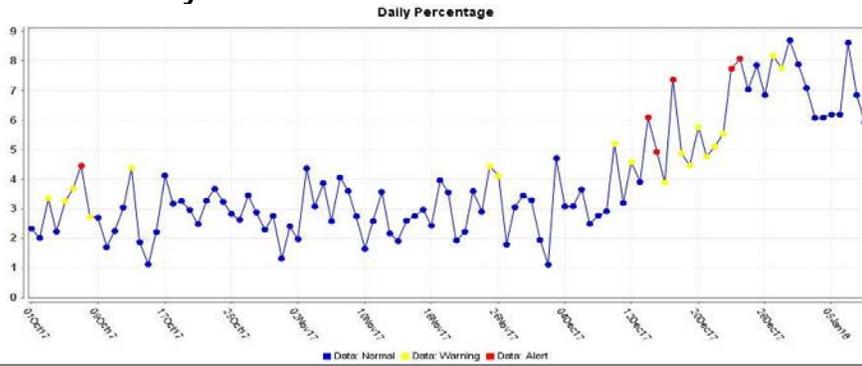


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

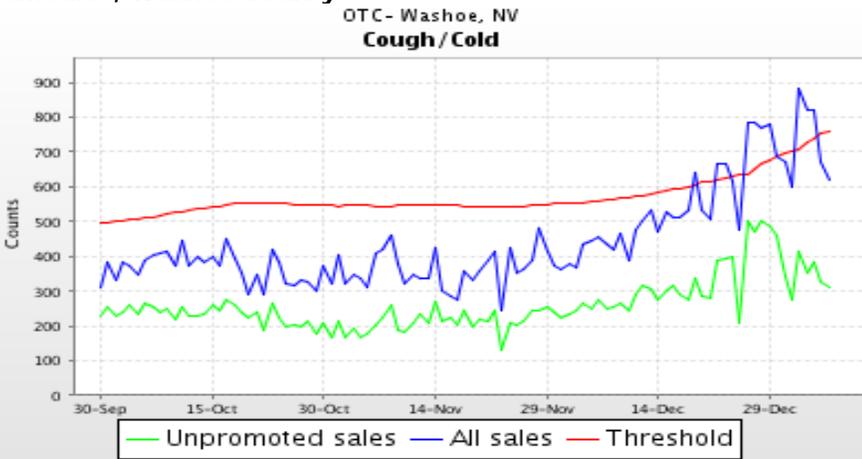
Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County



Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms. (Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County



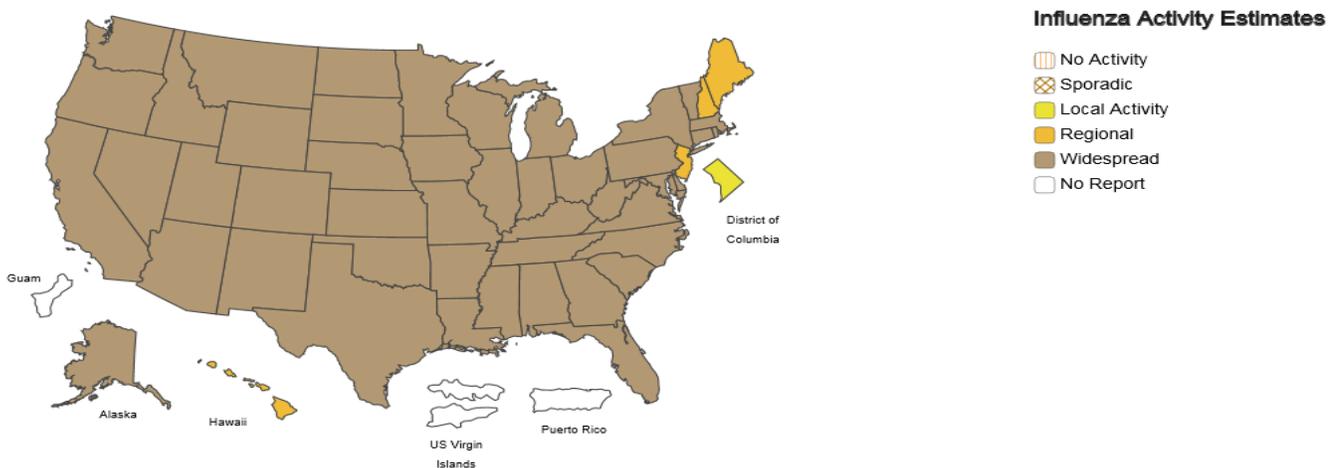
Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Dec 30, 2017 - Week 52



During week 52, the following influenza activity was reported:

- **Widespread** influenza activity was reported by 46 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, **Nevada**, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Regional influenza activity was reported by four states (Hawaii, Maine, New Hampshire, and New Jersey).
- Local influenza activity was reported by the District of Columbia.
- Guam, Puerto Rico, and the U.S. Virgin Islands did not report.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #2: January 7, 2018 – January 13, 2018

Date: Wednesday, January 17, 2018

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPHP)
775-328-2447 kchalkley@washoecounty.us

Note: **Due to the high volume of reports over recent weeks, the total number of confirmed cases presented in Table 1 are current through Week 1 (December 31 – January 6).**

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 370 patients with influenza-like-illness (ILI) for week ending January 13, 2018 (week 2). The percentage of persons seen with ILI by the twelve providers was 4.9% (370/7511) which is above the regional baseline of 2.4%. During week 1, the percentage of patient visits to Nevada sentinel providers due to ILI was 5.4%. Nationwide during week 1 the percentage of visits to sentinel providers due to ILI was 5.8% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 2.7% to 11.2%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

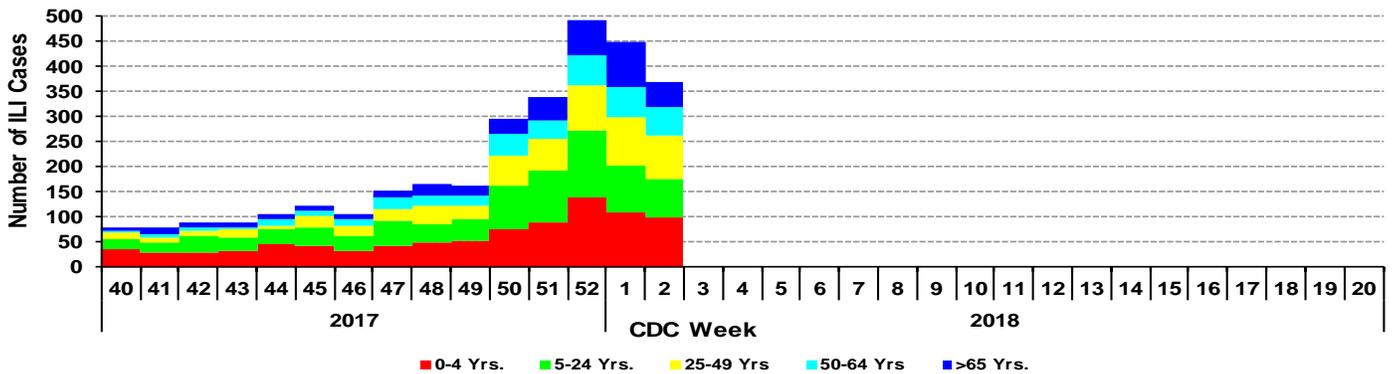
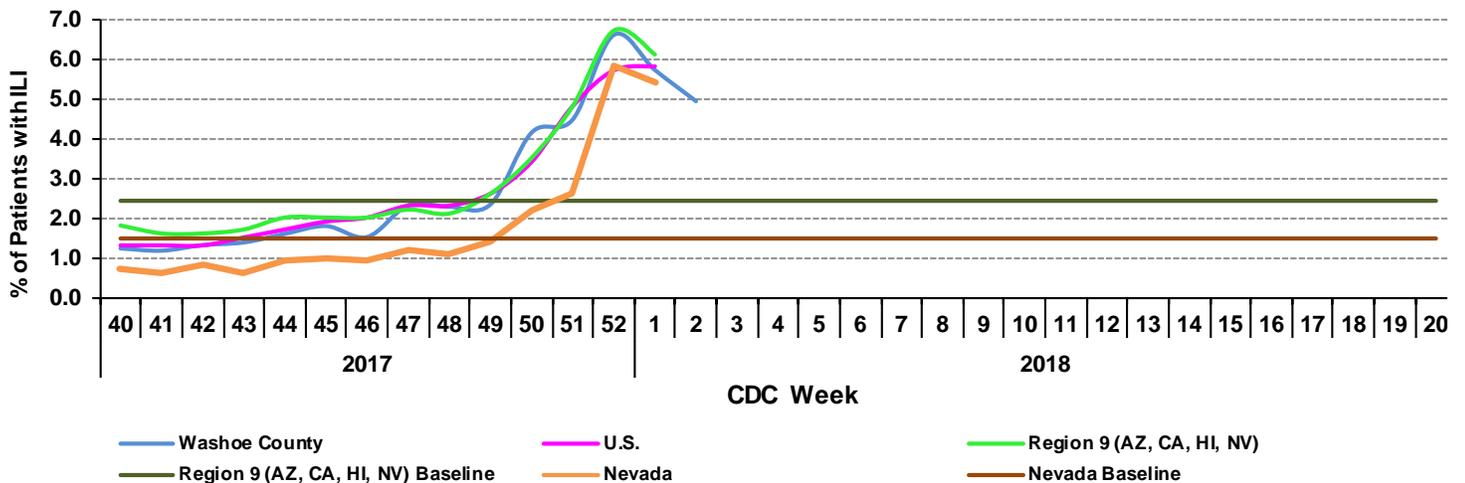


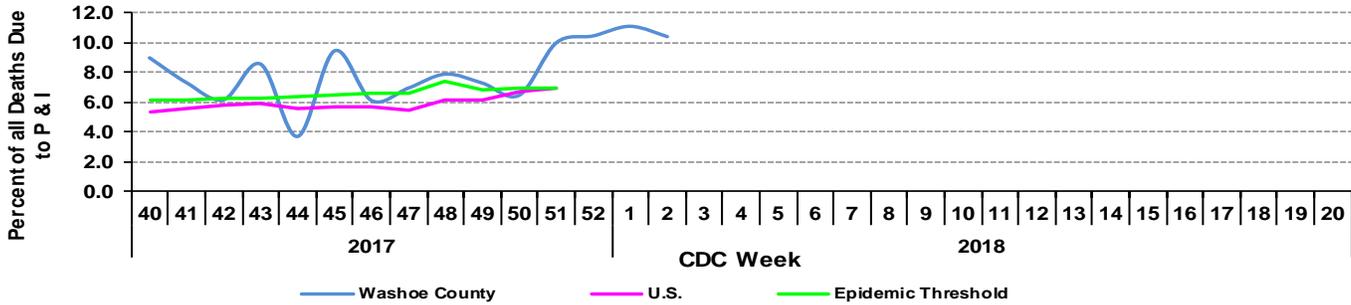
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Ten death certificates were received for week 2 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 2 was 96. This reflects a P&I ratio of 10.4% which is above the epidemic threshold set by CDC for week 51 at 7.0%. The national P&I for week 51 was at the epidemic threshold at 7.0%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 114. This reflects an overall P&I ratio of 8.1% (114/1405).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
1	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
15	14	0	1	0

Washoe County Total: 2,933 | Influenza type A: 2,267 | Influenza type B: 431 | Influenza unk type: 235

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 1) December 31, 2017 - January 6, 2018										Cumulative for 2017-2018 Influenza Season October 1, 2017 - January 6, 2018									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	607	73	12.0	32	43.8	10	1.6	0	0.0	2933	331	11.3	103	31.1	51	1.7	7	0.2		
Influenza A (2009 H1N1)	1	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	6	1	0.3	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	8	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	76	10	3.0	3	30.0	3	5.9	0	0.0		
Influenza A (not subtyped)	119	40	54.8	21	52.5	5	50.0	0	#DIV/0!	627	209	63.1	70	33.5	35	68.6	6	85.7		
Influenza A (RIDT*)	314	21	28.8	7	33.3	1	10.0	0	#DIV/0!	1558	75	22.7	16	21.3	6	11.8	0	0.0		
Influenza B (RIDT*)	86	2	2.7	0	0.0	0	0.0	0	#DIV/0!	322	8	2.4	3	37.5	0	0.0	0	0.0		
Influenza B (non-RIDT**)	35	9	12.3	4	44.4	4	40.0	0	#DIV/0!	109	26	7.9	11	42.3	7	13.7	1	14.3		
Influenza (unknown type, RIDT*)	44	1	1.4	0	0.0	0	0.0	0	#DIV/0!	235	2	0.6	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

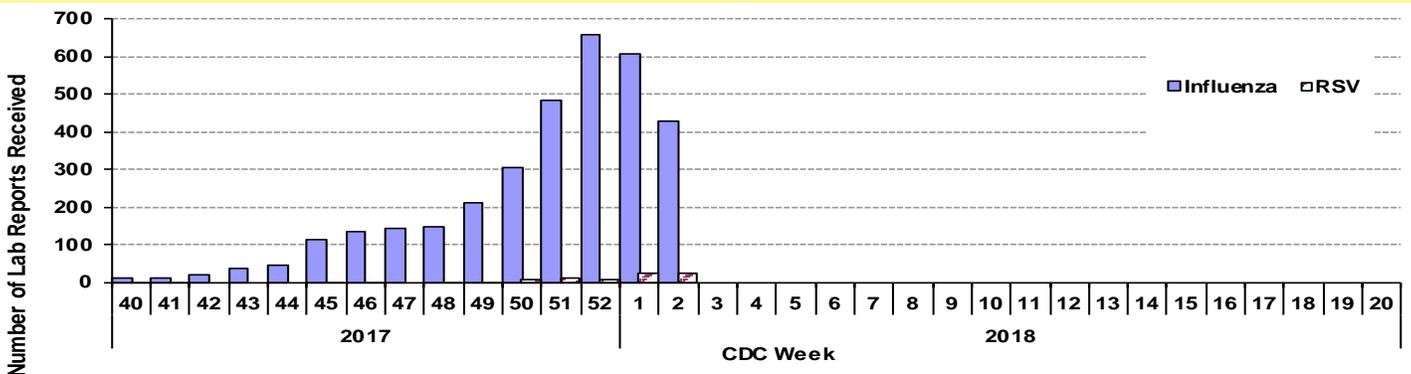


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

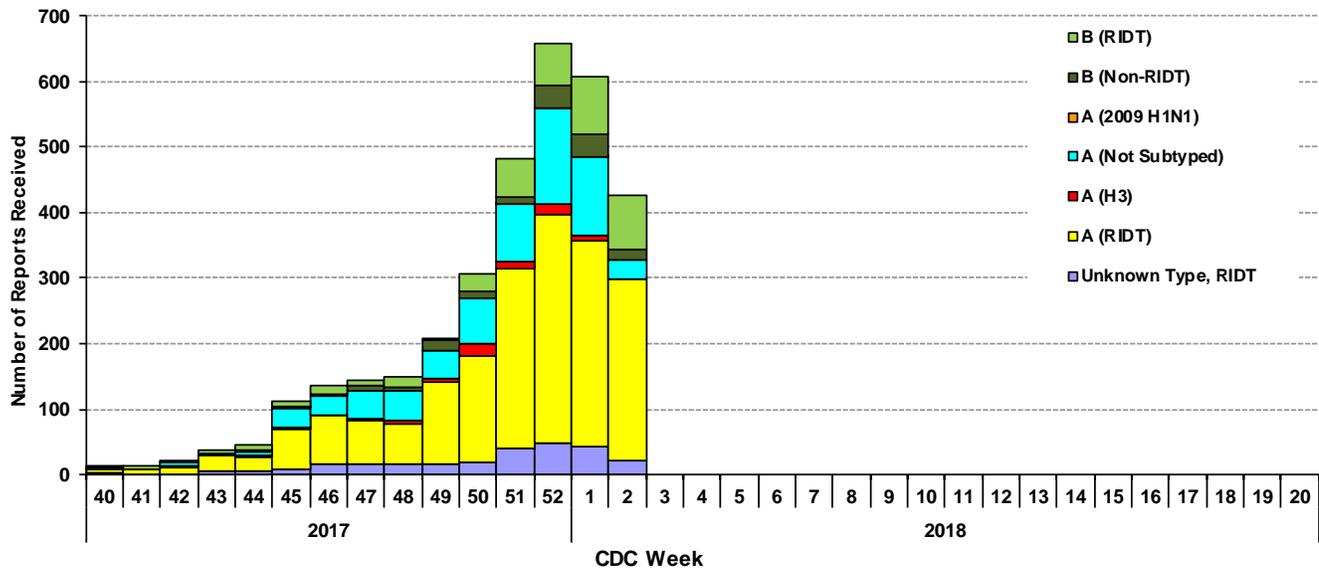


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

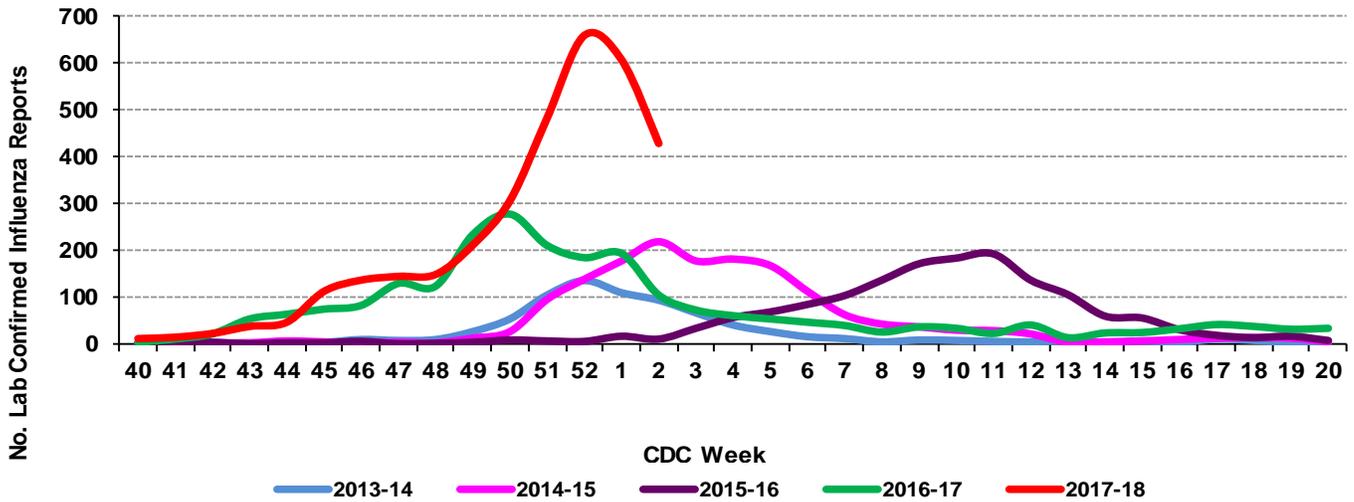
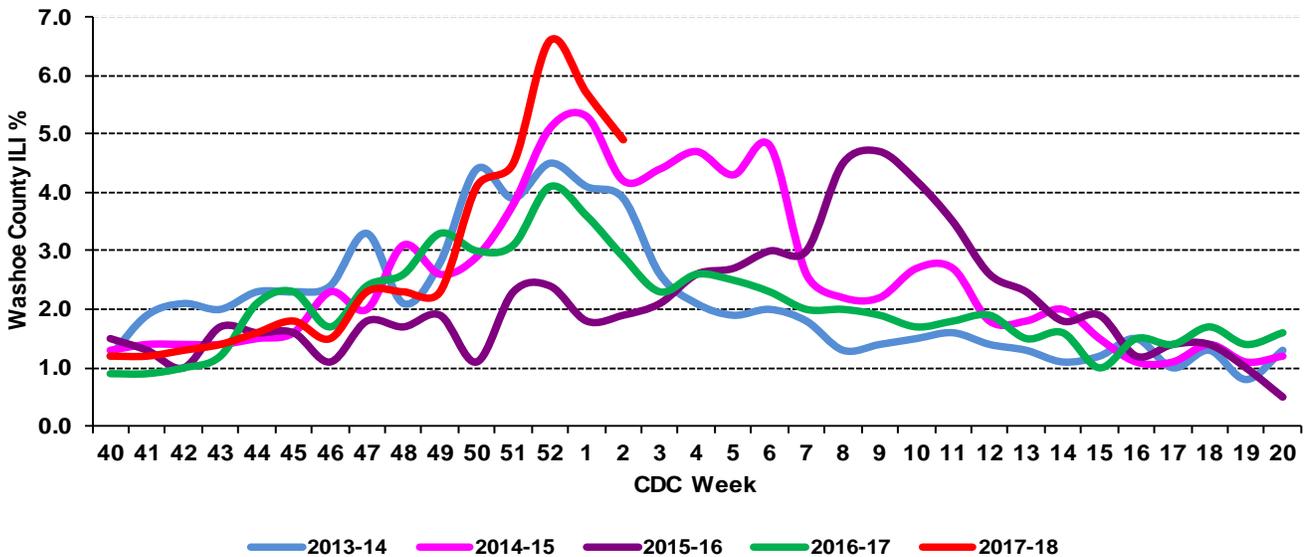
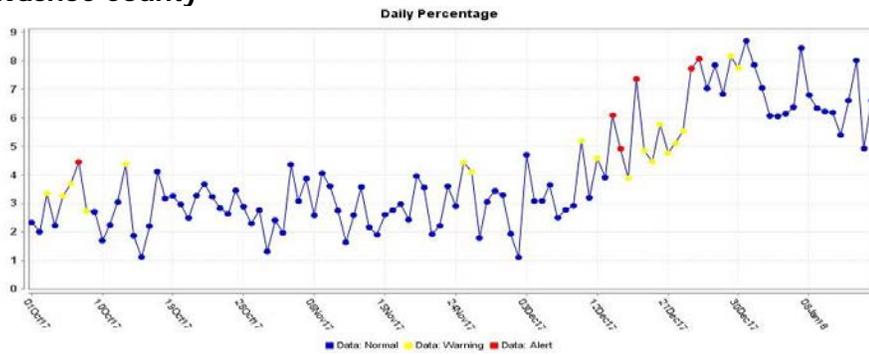


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

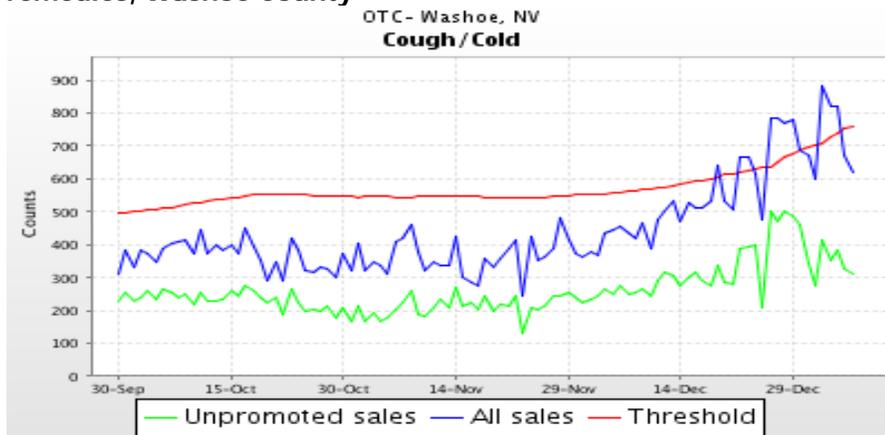


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County



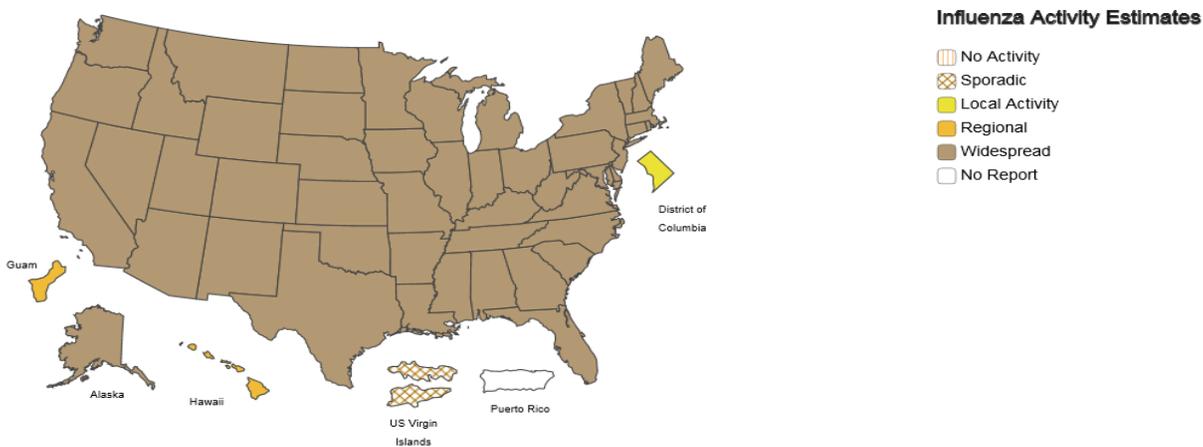
Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor
Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Jan 06, 2018 - Week 1



During week 1, the following influenza activity was reported:

- **Widespread** influenza activity was reported by 49 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, **Nevada**, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Regional influenza activity was reported by Guam and one state (Hawaii).
- Local influenza activity was reported by the District of Columbia.
- Sporadic activity was reported by the U.S. Virgin Islands.
- Puerto Rico did not report.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #3: January 14, 2018 – January 20, 2018

Date: Wednesday, January 24, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 290 patients with influenza-like-illness (ILI) for week ending January 20, 2018 (week 3). The percentage of persons seen with ILI by the twelve providers was 4.2% (290/6970) which is above the regional baseline of 2.4%. During week 2, the percentage of patient visits to Nevada sentinel providers due to ILI was 4.8%. Nationwide during week 2 the percentage of visits to sentinel providers due to ILI was 6.3% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 2.7% to 12.6%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

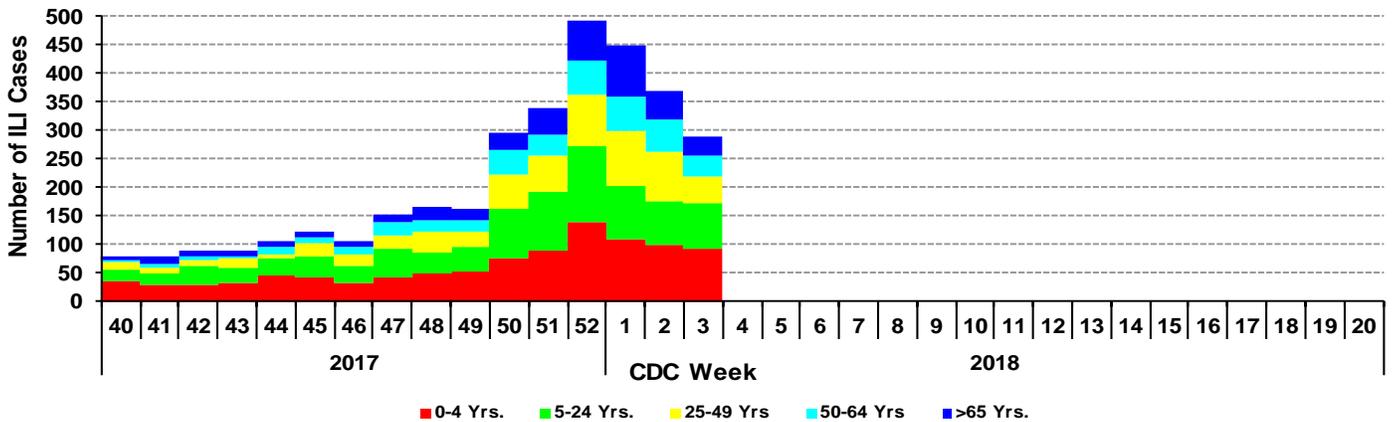
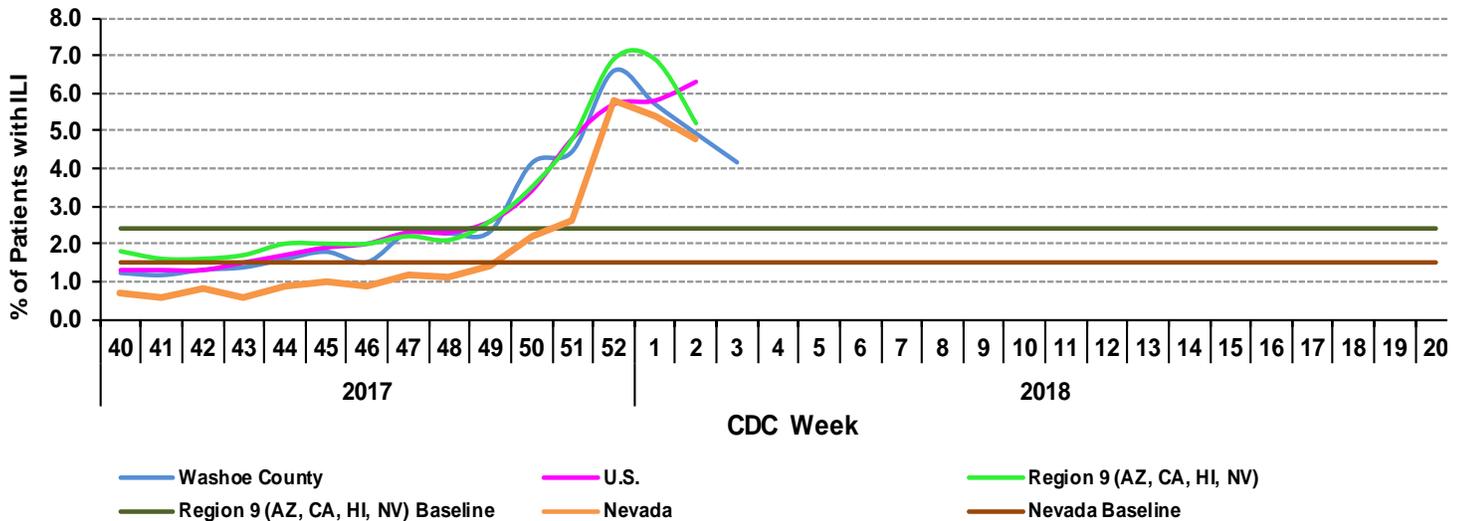


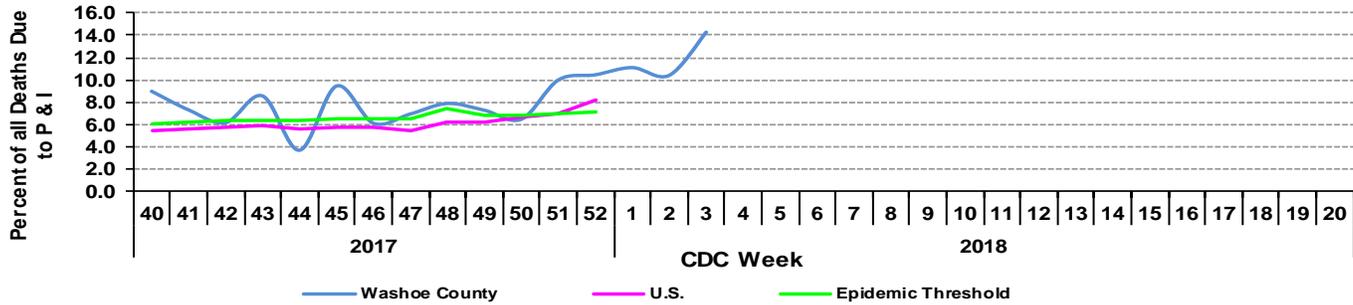
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Nineteen death certificates were received for week 3 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 3 was 133. This reflects a P&I ratio of 14.3% which is above the epidemic threshold set by CDC for week 52 at 7.1%. The national P&I for week 52 was above the epidemic threshold at 8.2%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 133. This reflects an overall P&I ratio of 8.6% (133/1538).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
3	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
20	18	0	2	0

Washoe County Total: 3,570 | Influenza type A: 2,694 | Influenza type B: 608 | Influenza unk type: 268

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 3) January 14 - January 20, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - January 20, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	215	25	11.6	12	48.0	3	1.4	0	0.0	3570	393	11.0	136	34.6	65	1.8	15	0.4		
Influenza A (2009 H1N1)	1	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	6	1	0.3	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	73	10	2.5	3	30.0	3	4.6	0	0.0		
Influenza A (not subtyped)	27	14	56.0	10	71.4	1	33.3	0	#DIV/0!	683	233	59.3	86	36.9	38	58.5	9	60.0		
Influenza A (RIDT*)	98	4	16.0	2	50.0	0	0.0	0	#DIV/0!	1932	98	24.9	30	30.6	13	20.0	3	20.0		
Influenza B (RIDT*)	56	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	460	8	2.0	3	37.5	0	0.0	1	6.7		
Influenza B (non-RIDT**)	23	7	28.0	0	0.0	2	66.7	0	#DIV/0!	148	42	10.7	14	33.3	11	16.9	2	13.3		
Influenza (unknown type, RIDT*)	10	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	268	1	0.3	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

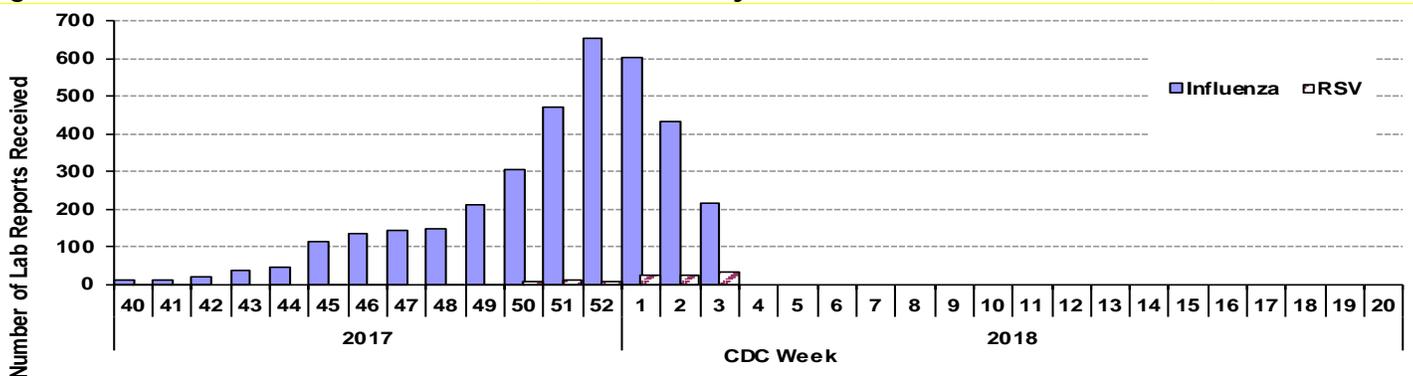


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

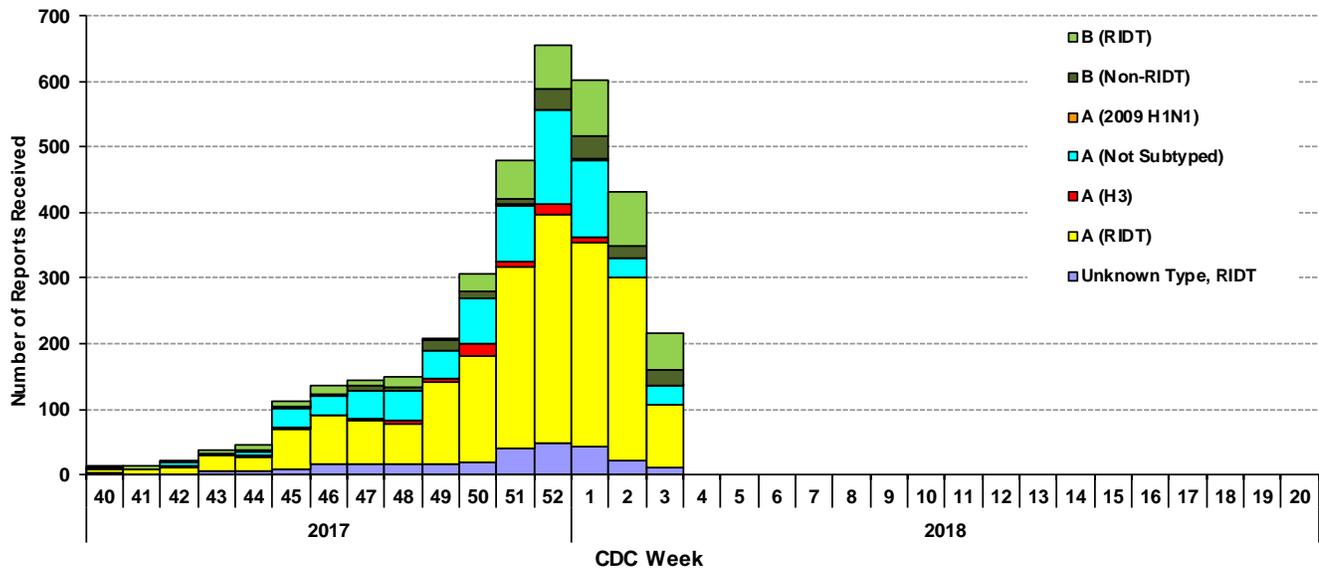


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

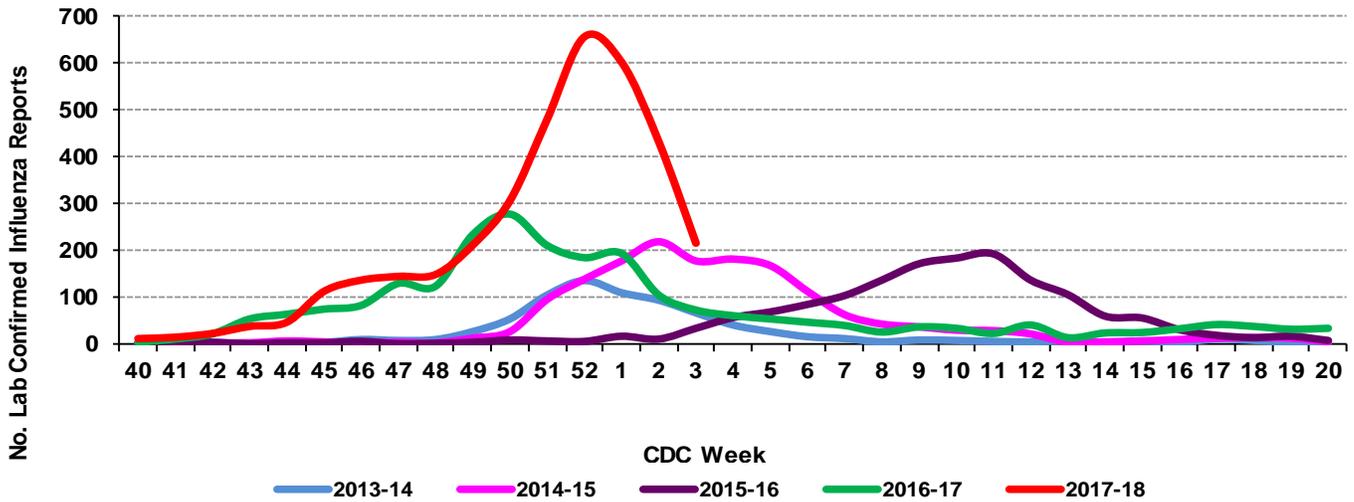
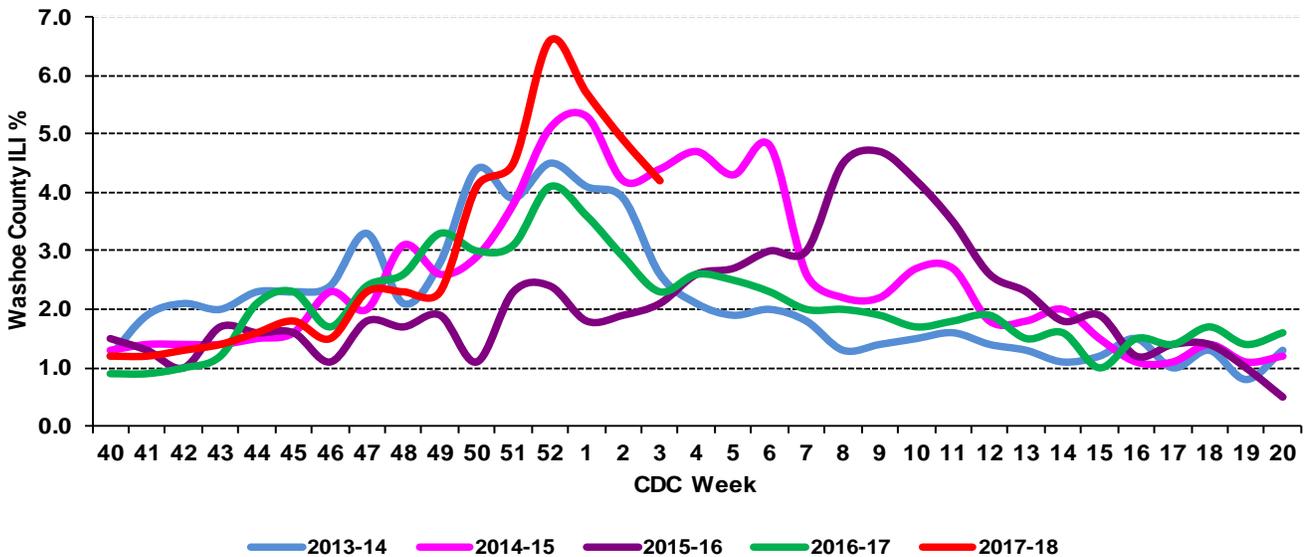
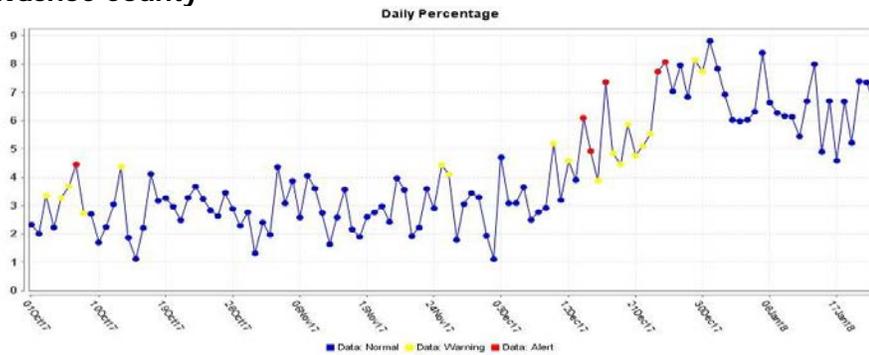


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

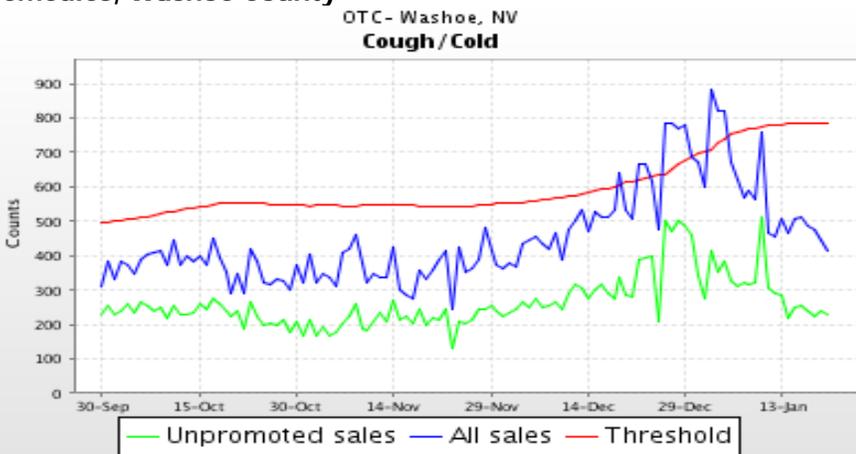


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

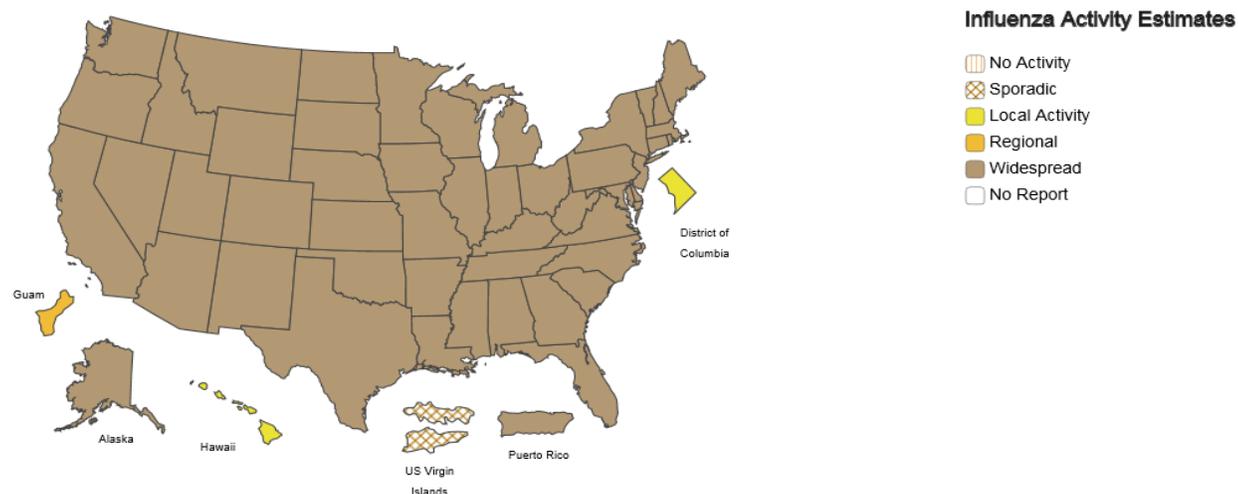


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Jan 13, 2018 - Week 2



During week 2, the following influenza activity was reported:

- **Widespread** influenza activity was reported by Puerto Rico and 49 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Regional influenza activity was reported by Guam.
- Local influenza activity was reported by the District of Columbia and one state (Hawaii).
- Sporadic activity was reported by the U.S. Virgin Islands.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #4: January 21, 2018 – January 27, 2018

Date: Wednesday, January 31, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 235 patients with influenza-like-illness (ILI) for week ending January 27, 2018 (week 4). The percentage of persons seen with ILI by the twelve providers was 3.3% (235/7225) which is above the regional baseline of 2.4%. During week 3, the percentage of patient visits to Nevada sentinel providers due to ILI was 3.7%. Nationwide during week 3 the percentage of visits to sentinel providers due to ILI was 6.6% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 2.9% to 11.7%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

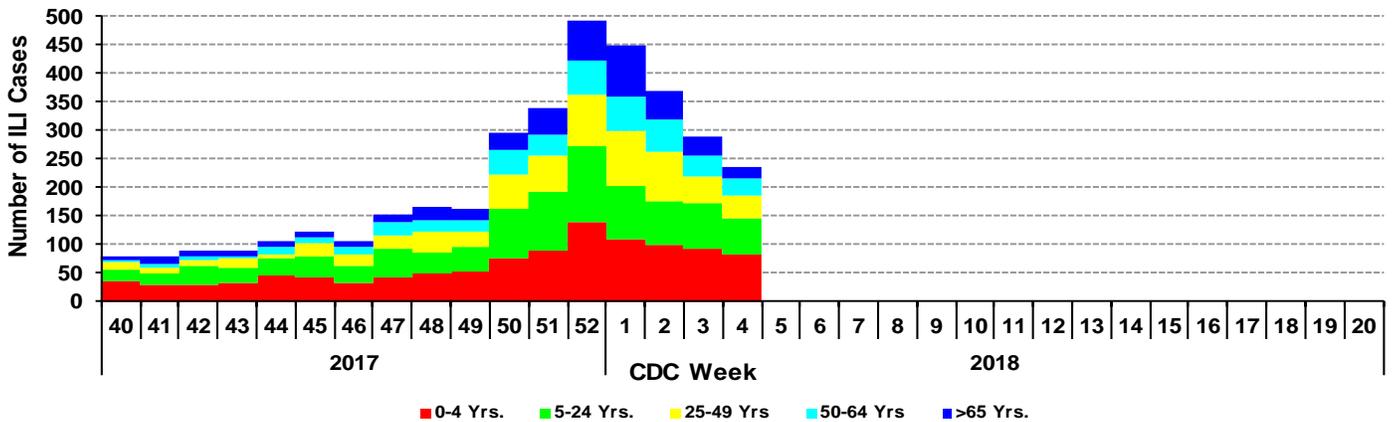
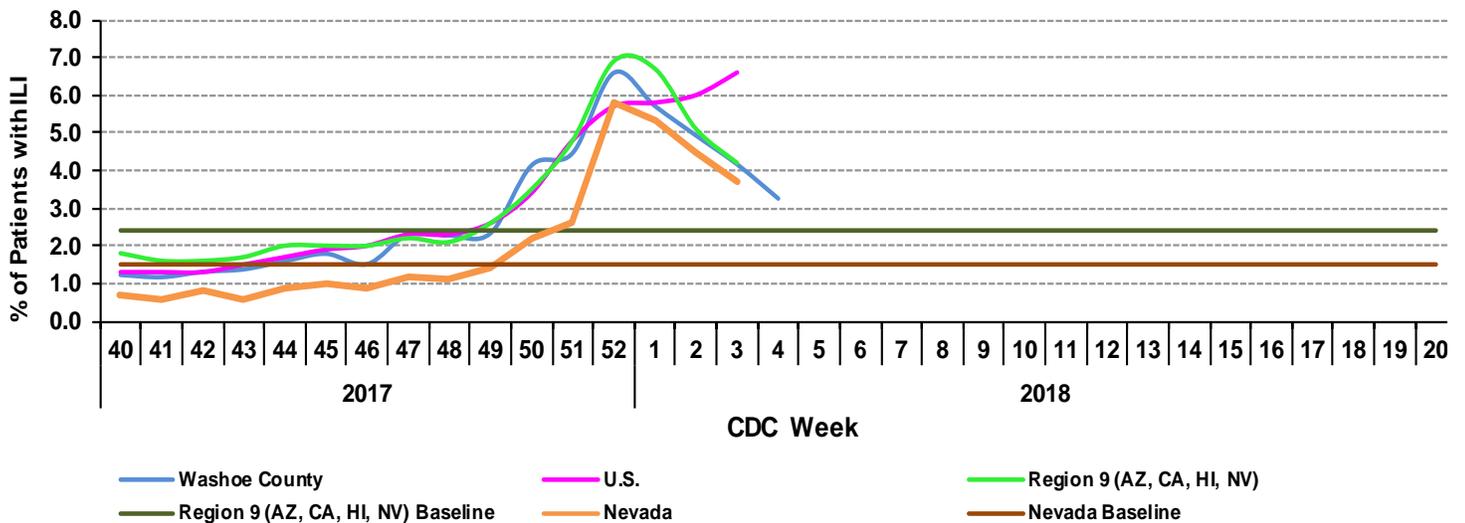


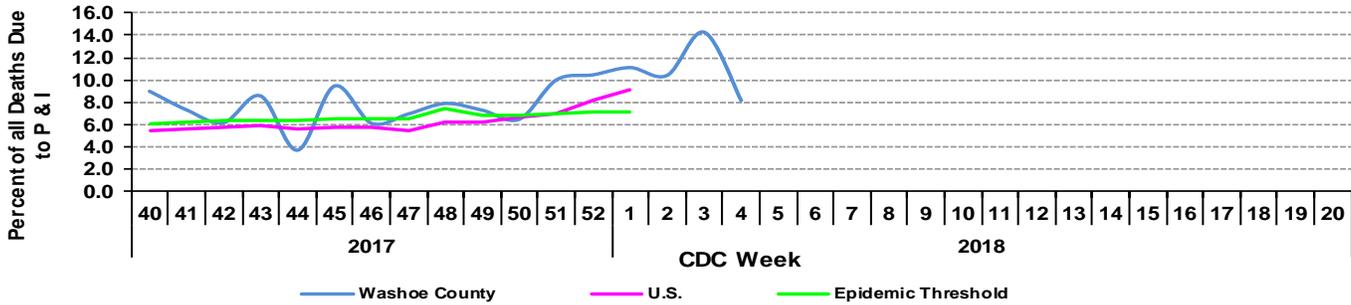
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Twelve death certificates were received for week 4 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 4 was 147. This reflects a P&I ratio of 8.2% which is above the epidemic threshold set by CDC for week 1 at 7.2%. The national P&I for week 1 was above the epidemic threshold at 9.1%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 145. This reflects an overall P&I ratio of 8.6% (145/1685).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
4	1	(1) B: Yamagata

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
27	20	3	4	0

Washoe County Total: 3,770 | Influenza type A: 2,764 | Influenza type B: 718 | Influenza unk type: 288

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 4) January 21 - January 27, 2018										Cumulative for 2017-2018 Influenza Season October 1, 2017 - January 27, 2018									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	202	16	7.9	8	50.0	2	1.0	0	0.0	3770	411	10.9	166	40.4	71	1.9	17	0.5		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	6	1	0.2	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	74	11	2.7	3	27.3	3	4.2	0	0.0		
Influenza A (not subtyped)	13	8	50.0	3	37.5	1	50.0	0	#DIV/0!	696	242	58.9	106	43.8	40	56.3	9	52.9		
Influenza A (RIDT*)	60	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	1988	98	23.8	35	35.7	14	19.7	4	23.5		
Influenza B (RIDT*)	79	2	12.5	0	0.0	0	0.0	0	#DIV/0!	543	10	2.4	3	30.0	0	0.0	1	5.9		
Influenza B (non-RIDT**)	27	6	37.5	5	83.3	1	50.0	0	#DIV/0!	175	48	11.7	19	39.6	14	19.7	3	17.6		
Influenza (unknown type, RIDT*)	23	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	288	1	0.2	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

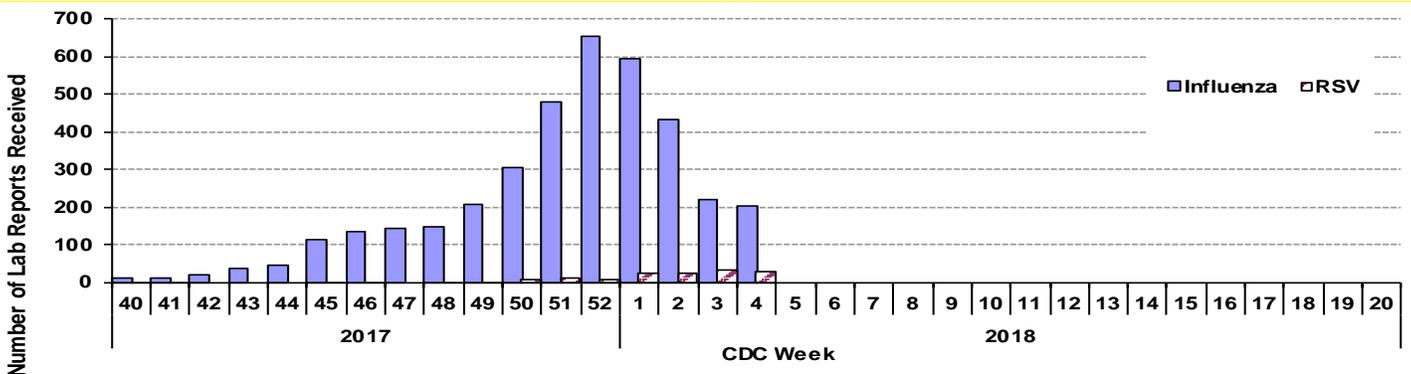


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

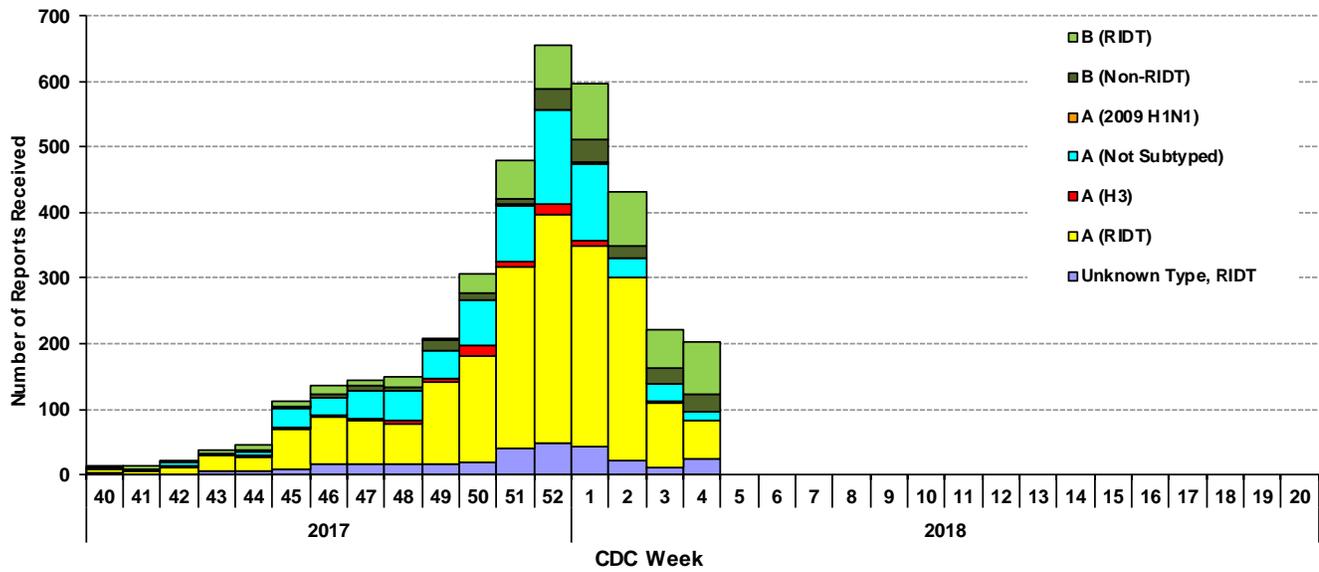


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

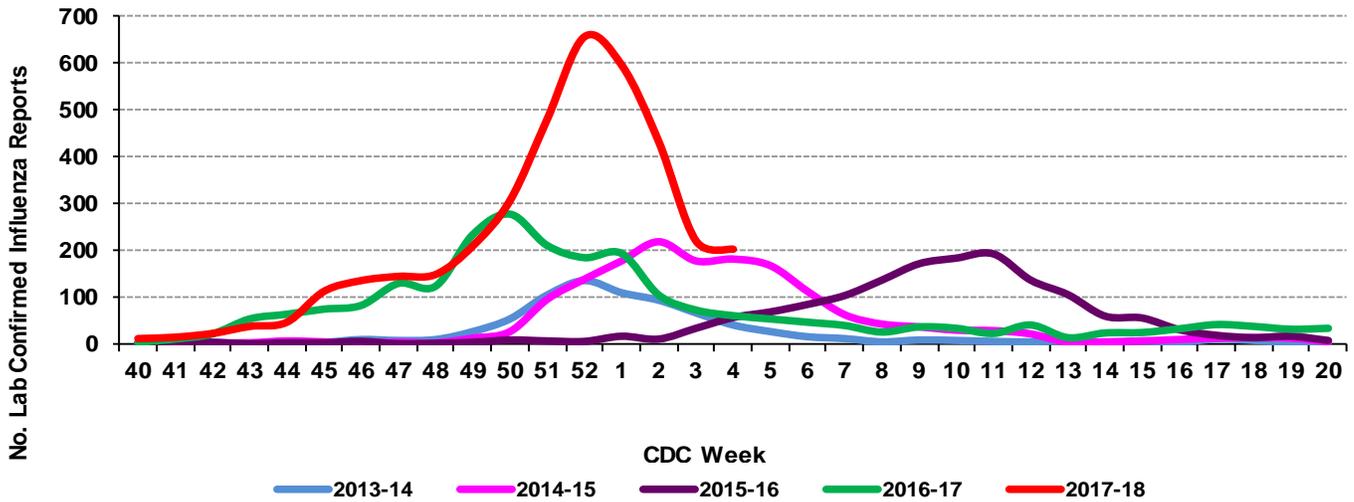
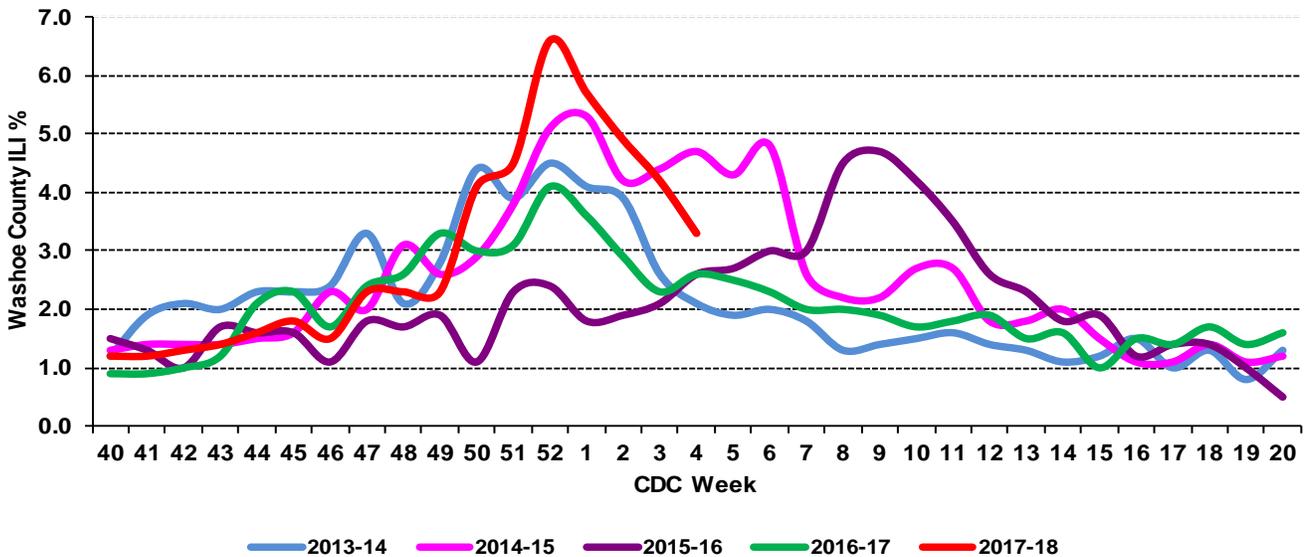
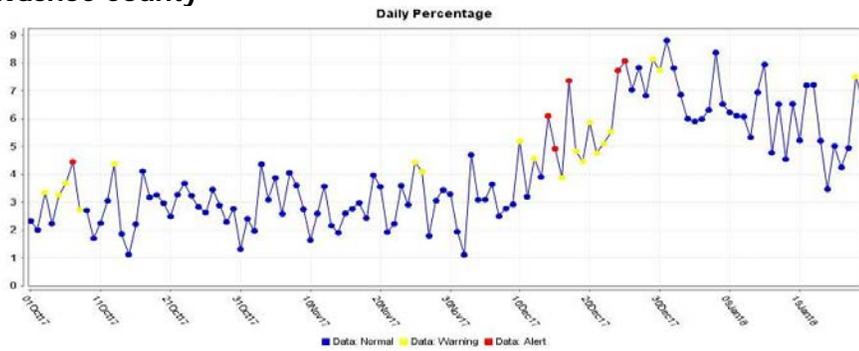


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

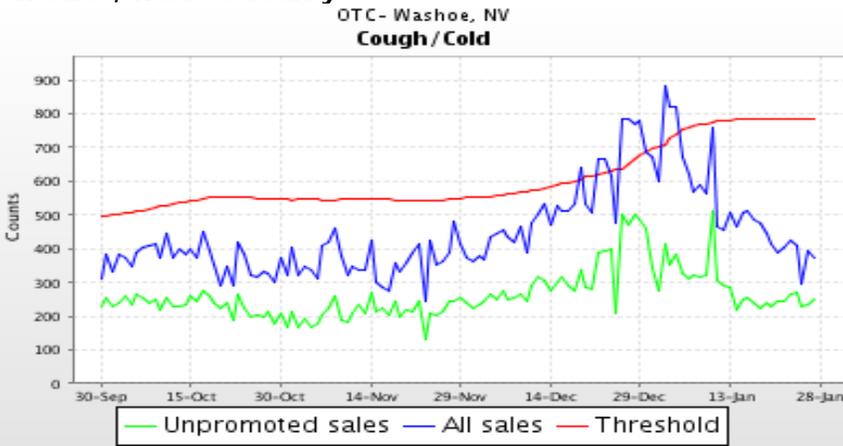


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County



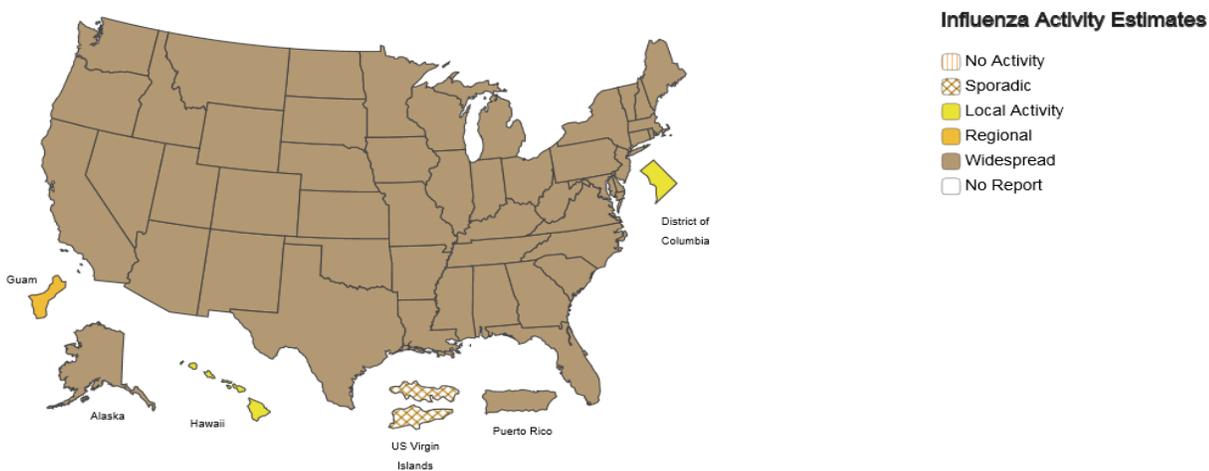
Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Jan 20, 2018 - Week 3



During week 3, the following influenza activity was reported:

- **Widespread** influenza activity was reported by Puerto Rico and 49 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Regional influenza activity was reported by Guam.
- Local influenza activity was reported by the District of Columbia and one state (Hawaii).
- Sporadic activity was reported by the U.S. Virgin Islands.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #5: January 28, 2018 – February 3, 2018

Date: Wednesday, February 7, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 251 patients with influenza-like-illness (ILI) for week ending February 3, 2018 (week 5). The percentage of persons seen with ILI by the twelve providers was 3.3% (251/7521) which is above the regional baseline of 2.4%. During week 4, the percentage of patient visits to Nevada sentinel providers due to ILI was 3.6%. Nationwide during week 4 the percentage of visits to sentinel providers due to ILI was 7.1% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 2.8% to 13.0%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

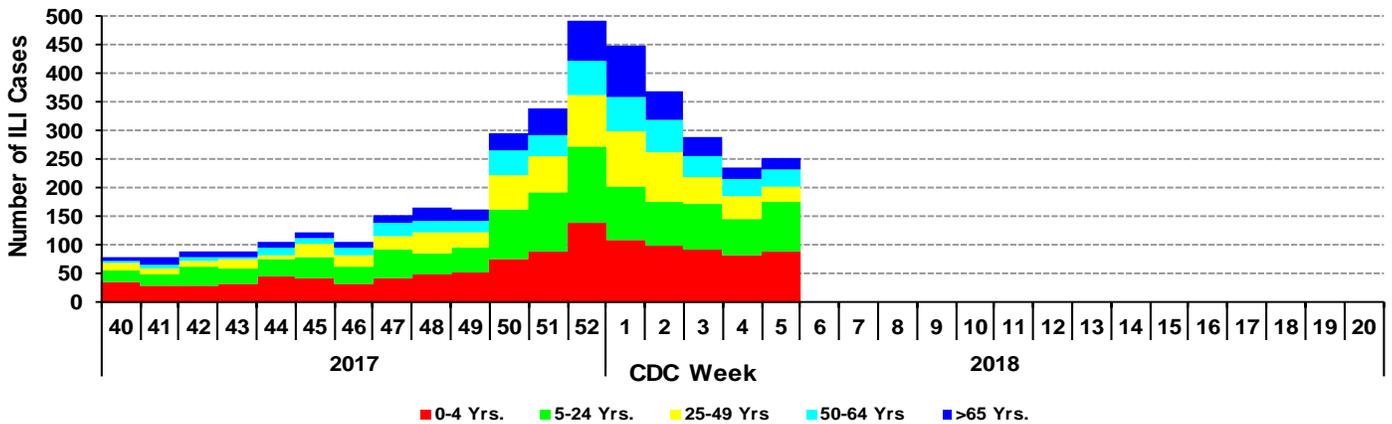
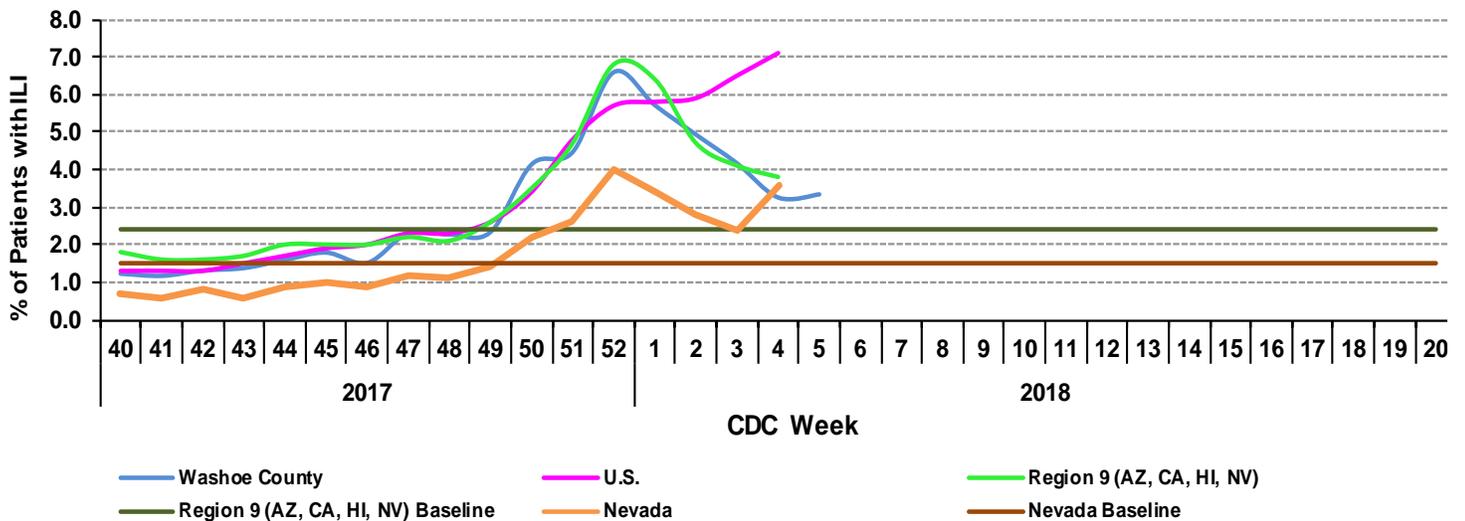


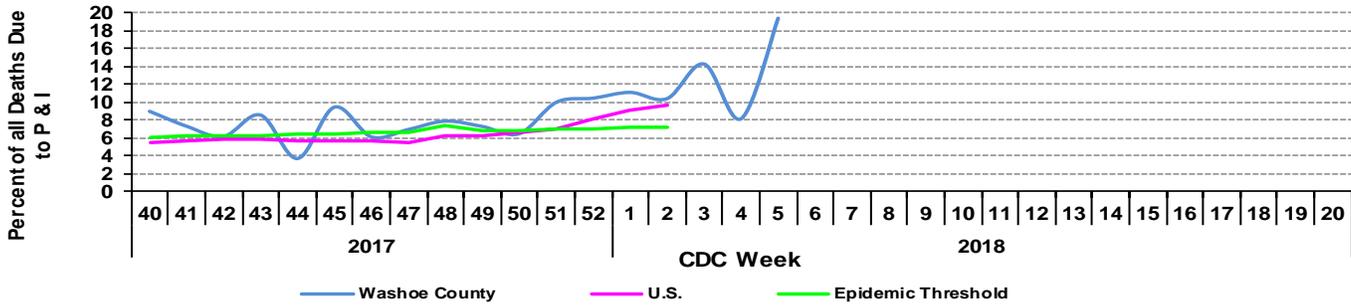
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Twenty death certificates were received for week 5 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 5 was 103. This reflects a P&I ratio of 19.4% which is above the epidemic threshold set by CDC for week 2 at 7.2%. The national P&I for week 2 was above the epidemic threshold at 9.7%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 165. This reflects an overall P&I ratio of 9.2% (165/1788).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
5	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
38	24	3	11	0

Washoe County Total: 4,066 | Influenza type A: 2,855 | Influenza type B: 904 | Influenza unk type: 307

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 5) January 28 - February 3, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - February 3, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	289	15	5.2	6	40.0	1	0.3	0	0.0	4066	428	10.5	172	40.2	74	1.8	19	0.5		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	6	1	0.2	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	75	11	2.6	3	27.3	3	4.1	0	0.0		
Influenza A (not subtyped)	12	6	40.0	3	50.0	1	100.0	0	#DIV/0!	708	248	57.9	109	44.0	41	55.4	10	52.6		
Influenza A (RIDT*)	76	2	13.3	1	50.0	0	0.0	0	#DIV/0!	2066	102	23.8	36	35.3	15	20.3	5	26.3		
Influenza B (RIDT*)	147	2	13.3	0	0.0	0	0.0	0	#DIV/0!	691	12	2.8	3	25.0	0	0.0	1	5.3		
Influenza B (non-RIDT**)	36	5	33.3	2	40.0	0	0.0	0	#DIV/0!	213	53	12.4	21	39.6	15	20.3	3	15.8		
Influenza (unknown type, RIDT*)	18	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	307	1	0.2	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

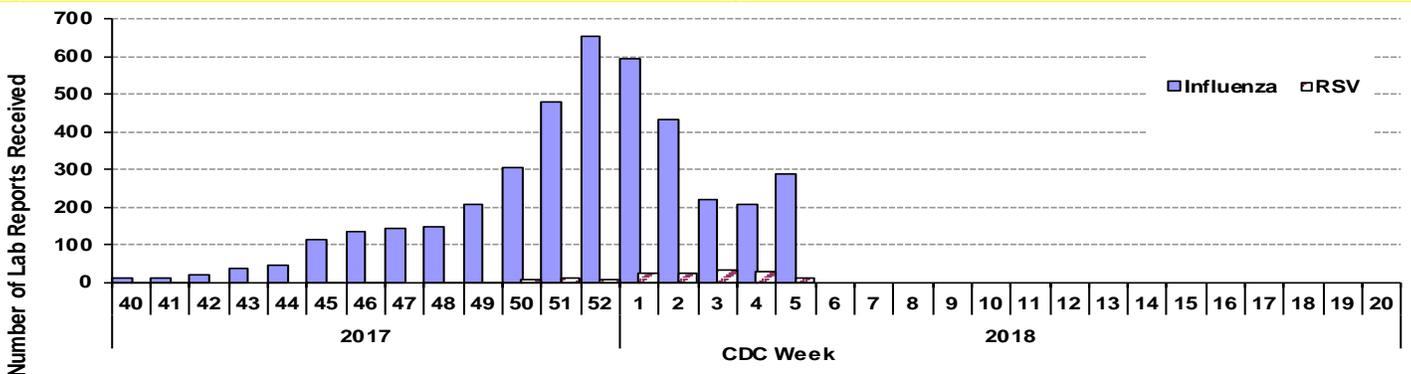


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

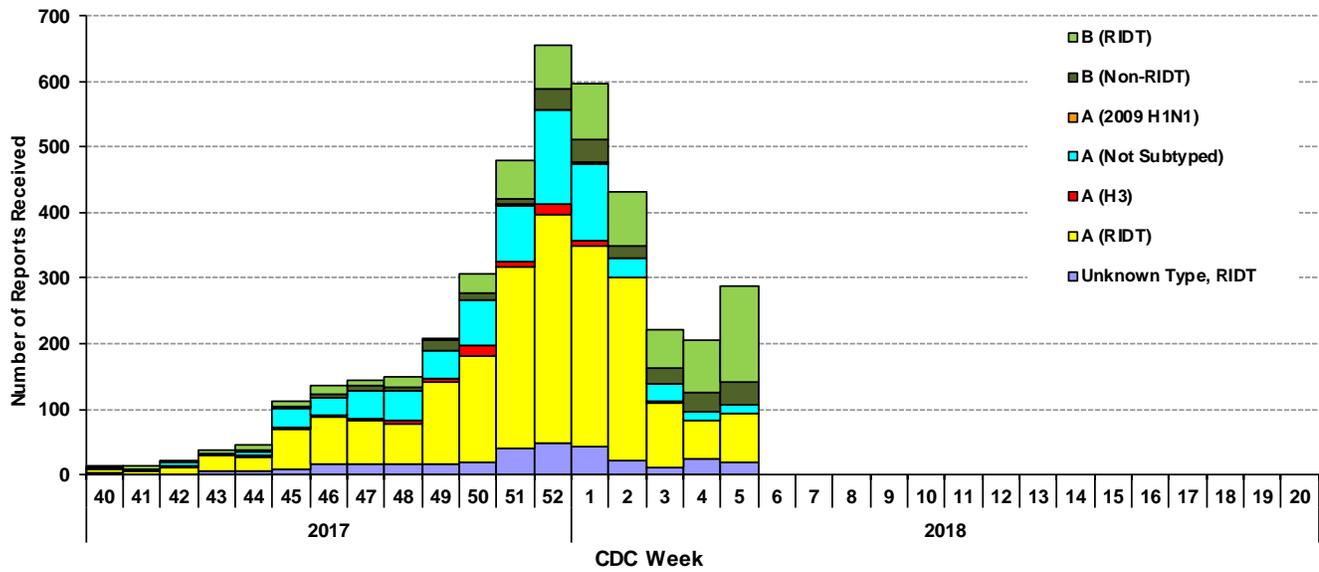


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

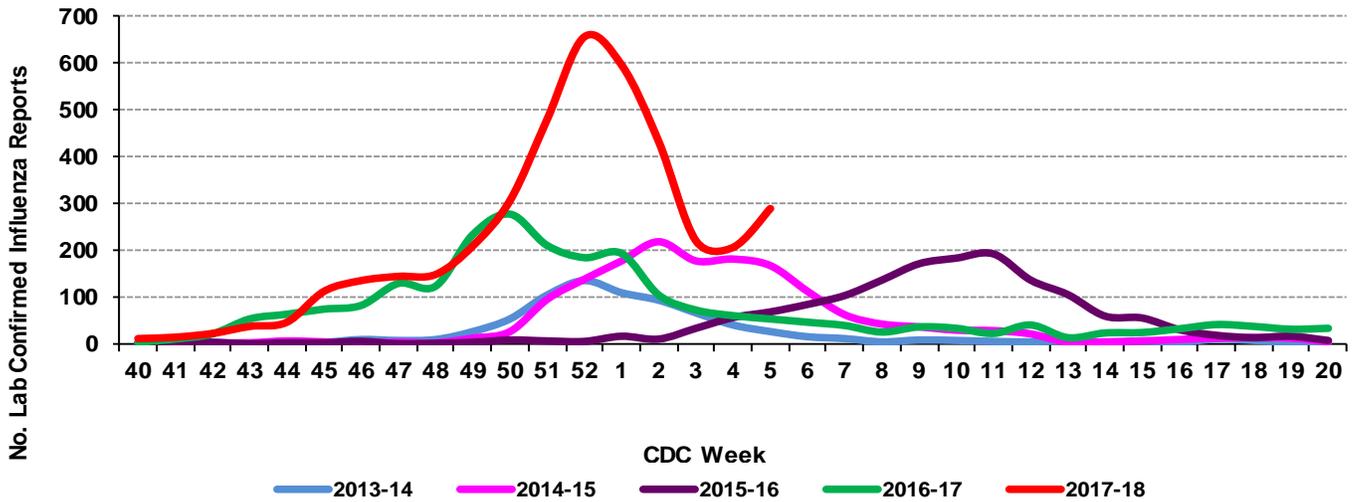
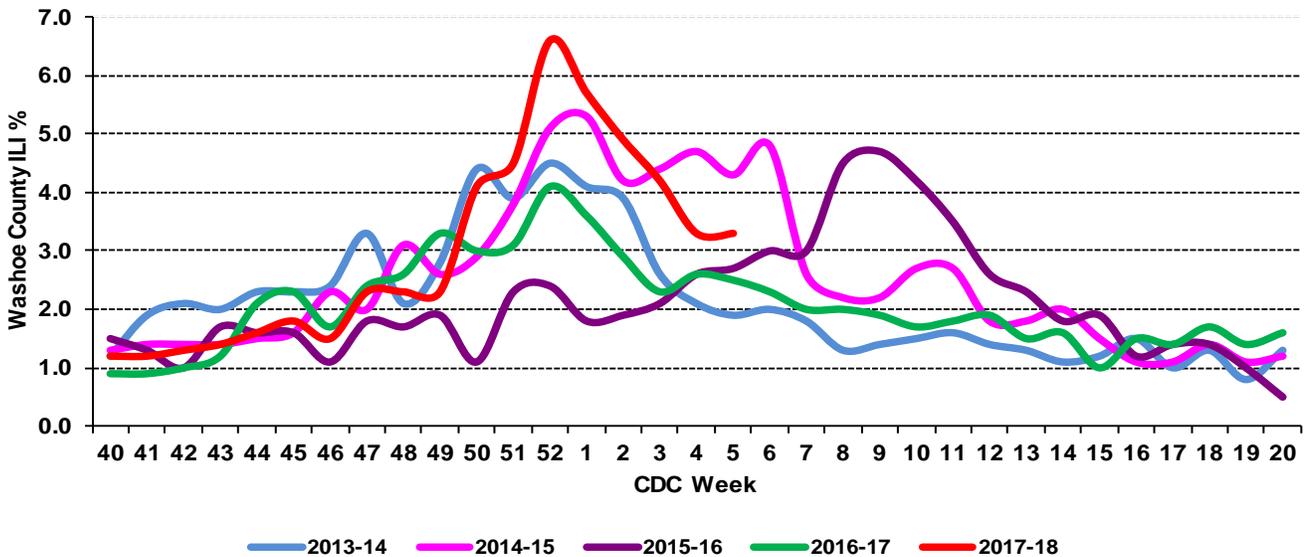
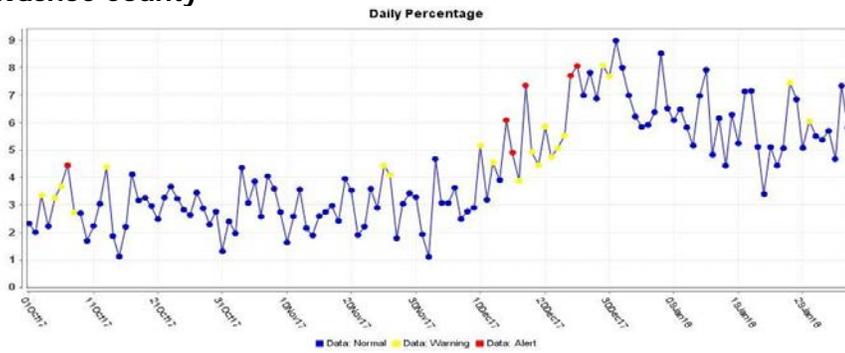


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

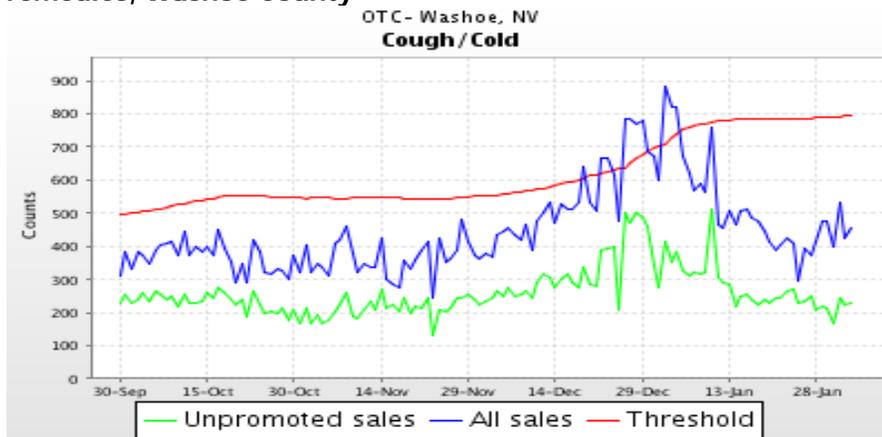


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

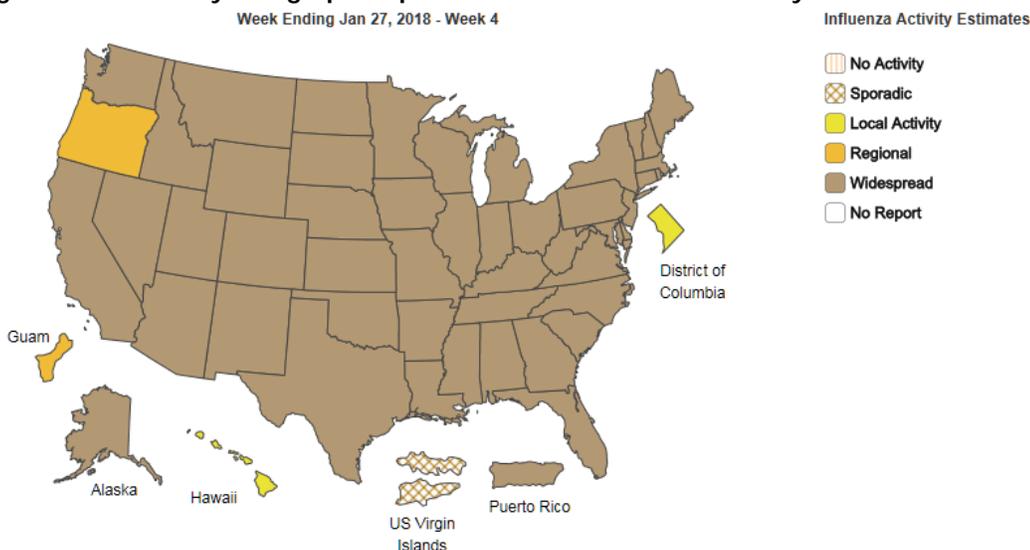


Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor
Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 4, the following influenza activity was reported:

- **Widespread** influenza activity was reported by Puerto Rico and 48 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, **Nevada**, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Regional influenza activity was reported by Guam and one state (Oregon).
- Local influenza activity was reported by the District of Columbia and one state (Hawaii).
- Sporadic activity was reported by the U.S. Virgin Islands.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #6: February 4, 2018 – February 10, 2018

Date: Wednesday, February 14, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 292 patients with influenza-like-illness (ILI) for week ending February 10, 2018 (week 6). The percentage of persons seen with ILI by the twelve providers was 3.7% (292/7839) which is above the regional baseline of 2.4%. During week 5, the percentage of patient visits to Nevada sentinel providers due to ILI was 4.0%. Nationwide during week 5 the percentage of visits to sentinel providers due to ILI was 7.7% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 3.4% to 12.5%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

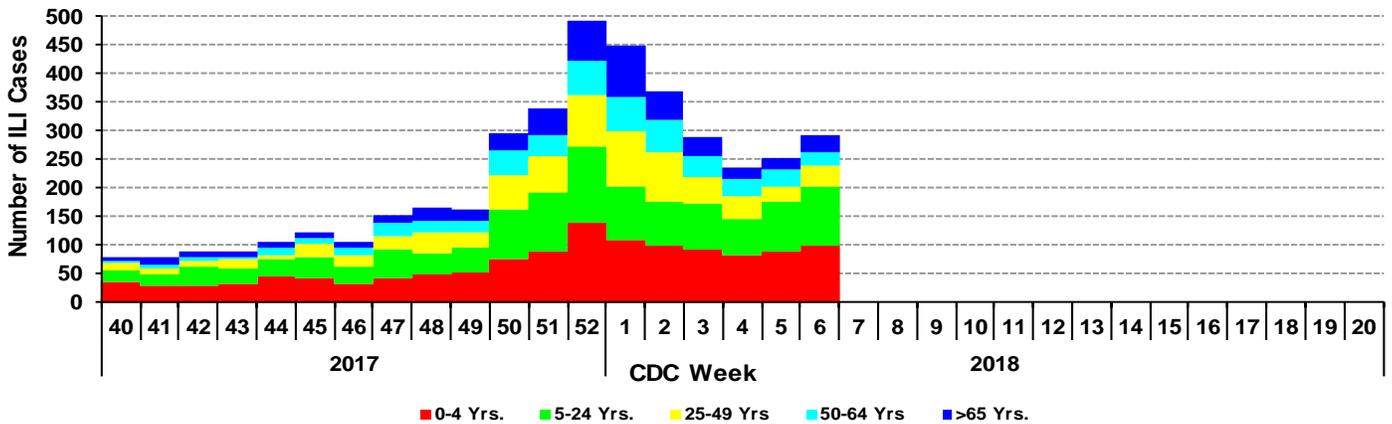
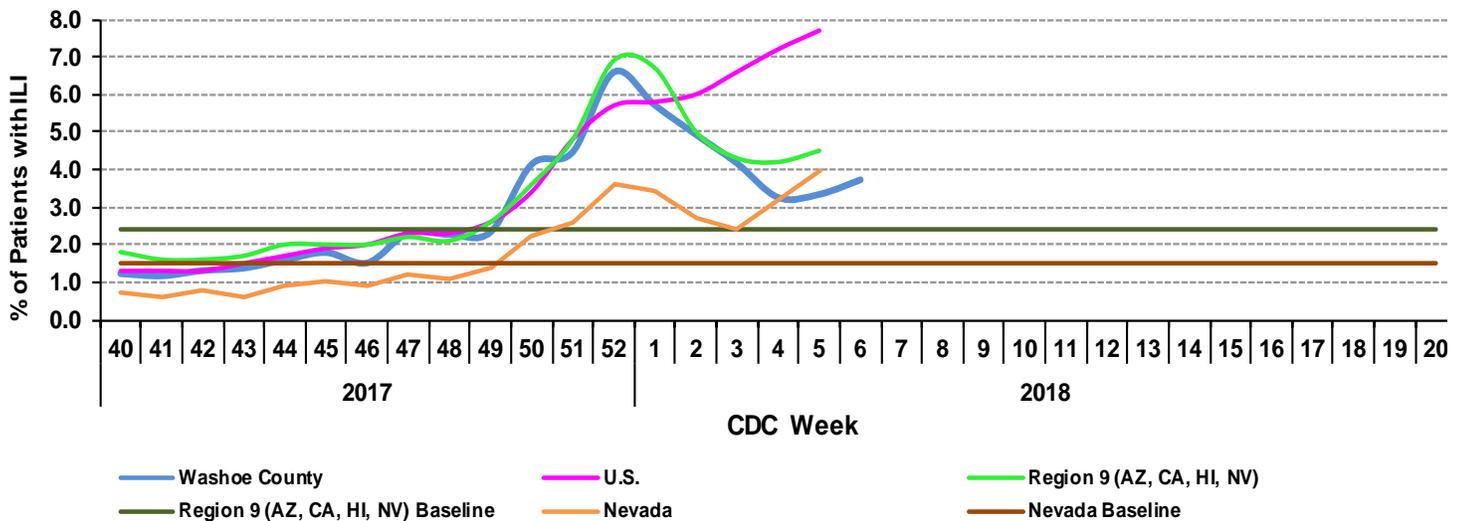


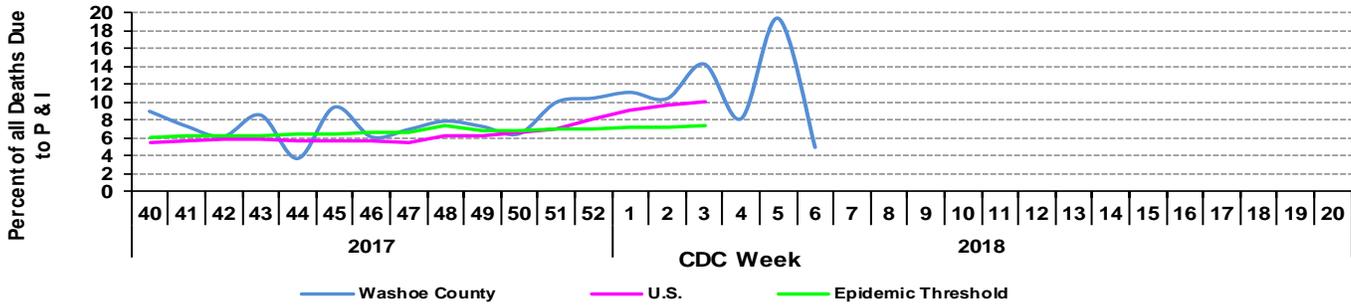
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Five death certificates were received for week 6 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 6 was 101. This reflects a P&I ratio of 5.0% which is below the epidemic threshold set by CDC for week 3 at 7.3%. The national P&I for week 3 was above the epidemic threshold at 10.1%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 170. This reflects an overall P&I ratio of 9.0% (170/1889).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
6	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
46	25	7	14	0

Washoe County Total: 4,352 | Influenza type A: 2,938 | Influenza type B: 1,087 | Influenza unk type: 327

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

	Current Week (Week 6) February 4 - February 10, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - February 10, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	280	9	3.2	6	66.7	1	0.4	0	0.0	4352	437	10.0	178	40.7	77	1.8	20	0.5		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	6	1	0.2	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	77	11	2.5	3	27.3	3	3.9	0	0.0		
Influenza A (not subtyped)	16	3	33.3	3	100.0	1	100.0	0	#DIV/0!	724	251	57.4	112	44.6	44	57.1	11	55.0		
Influenza A (RIDT*)	64	1	11.1	0	0.0	0	0.0	0	#DIV/0!	2131	103	23.6	36	35.0	15	19.5	5	25.0		
Influenza B (RIDT*)	151	1	11.1	1	100.0	0	0.0	0	#DIV/0!	842	13	3.0	4	30.8	0	0.0	1	5.0		
Influenza B (non-RIDT**)	29	4	44.4	2	50.0	0	0.0	0	#DIV/0!	245	57	13.0	23	40.4	15	19.5	3	15.0		
Influenza (unknown type, RIDT*)	20	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	327	1	0.2	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

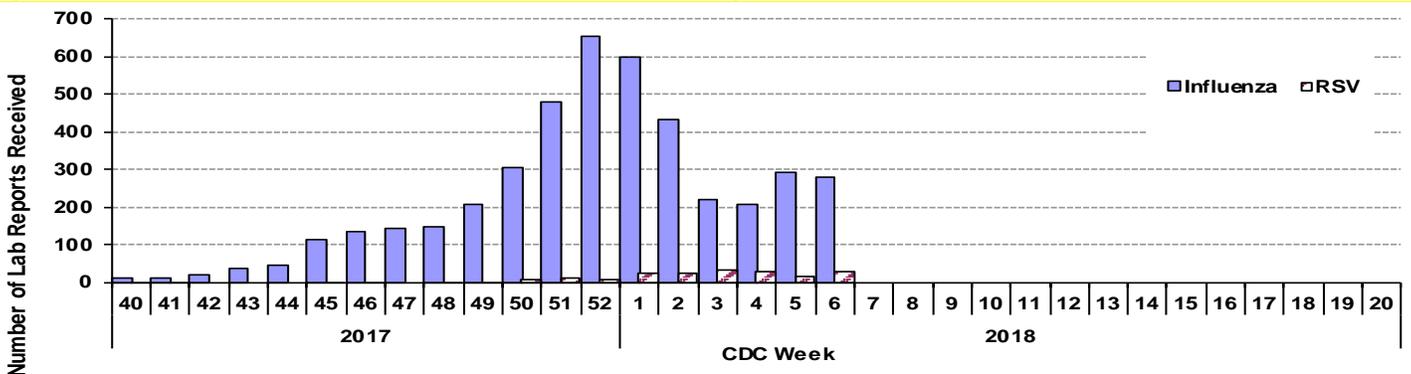


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

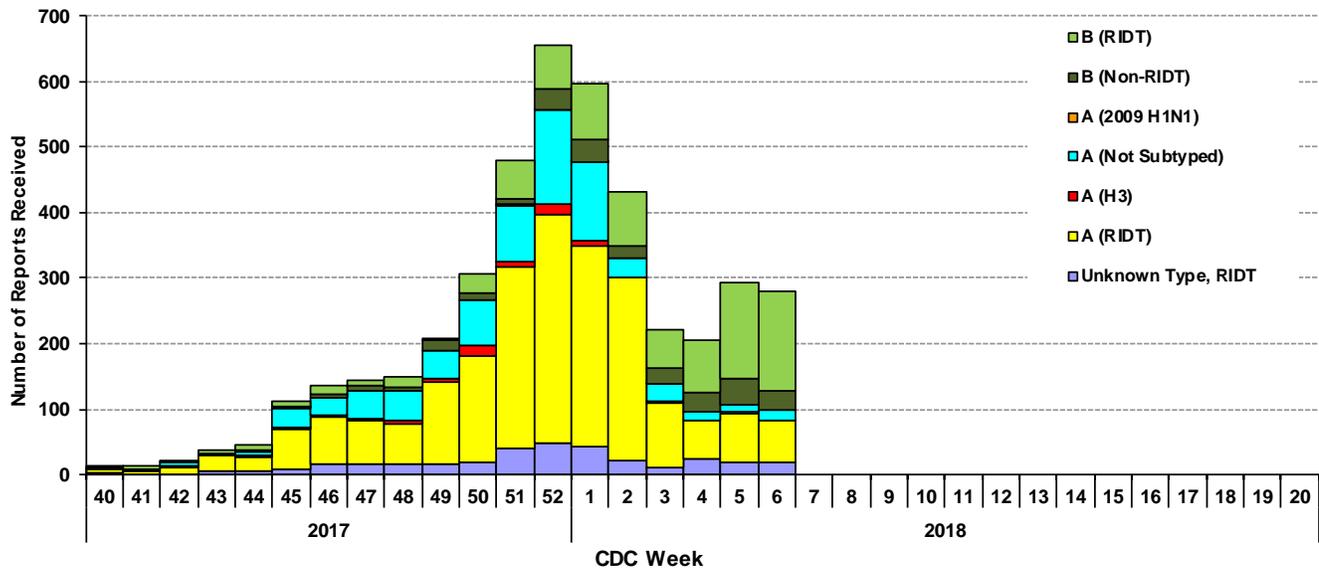


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

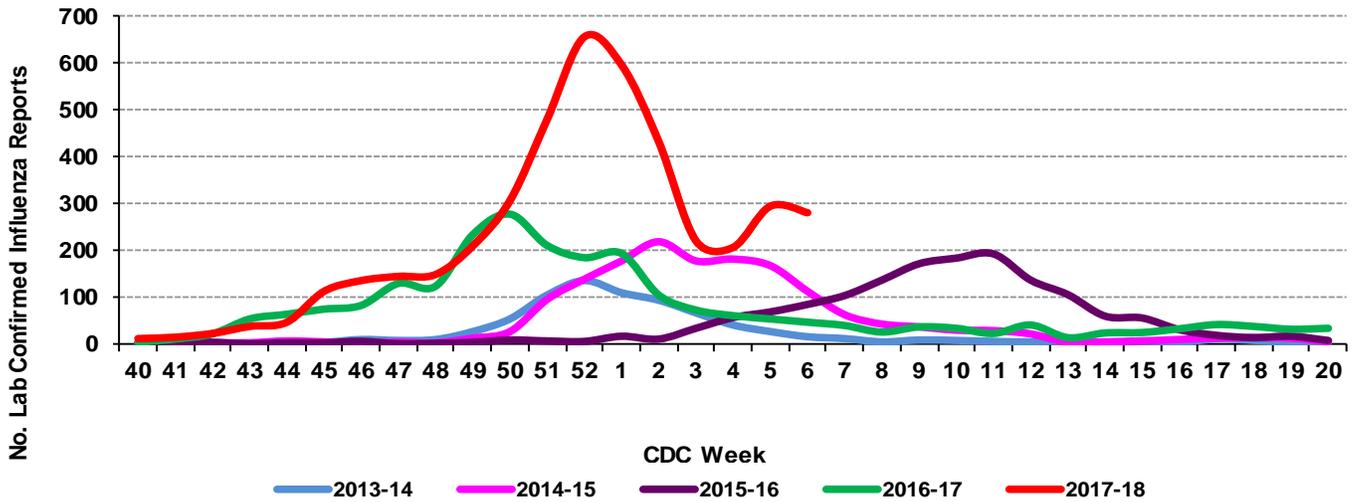
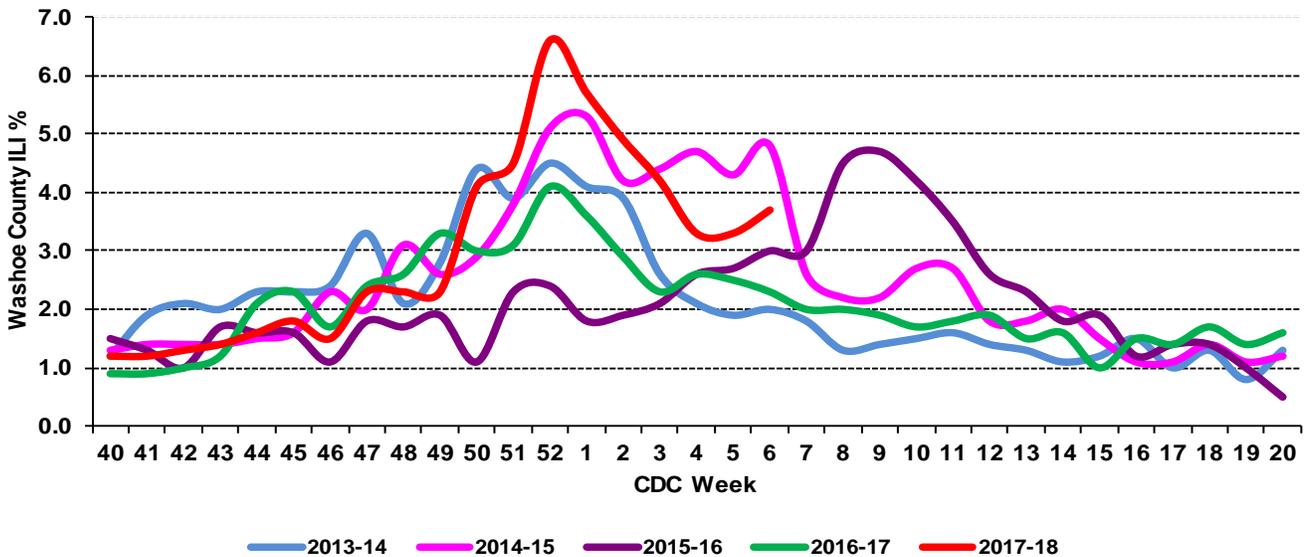
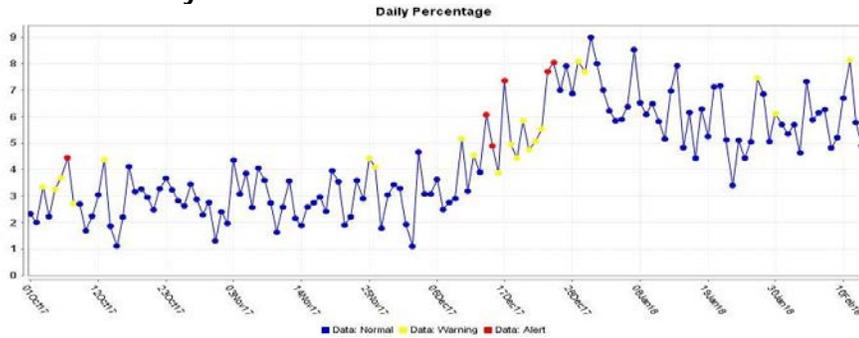


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

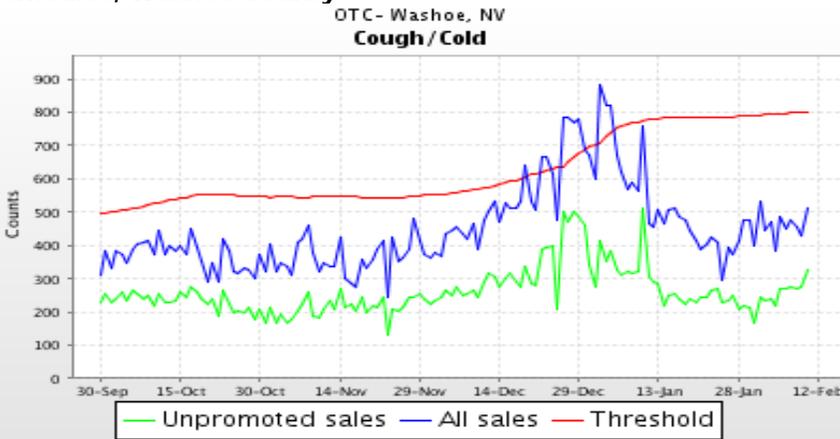


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

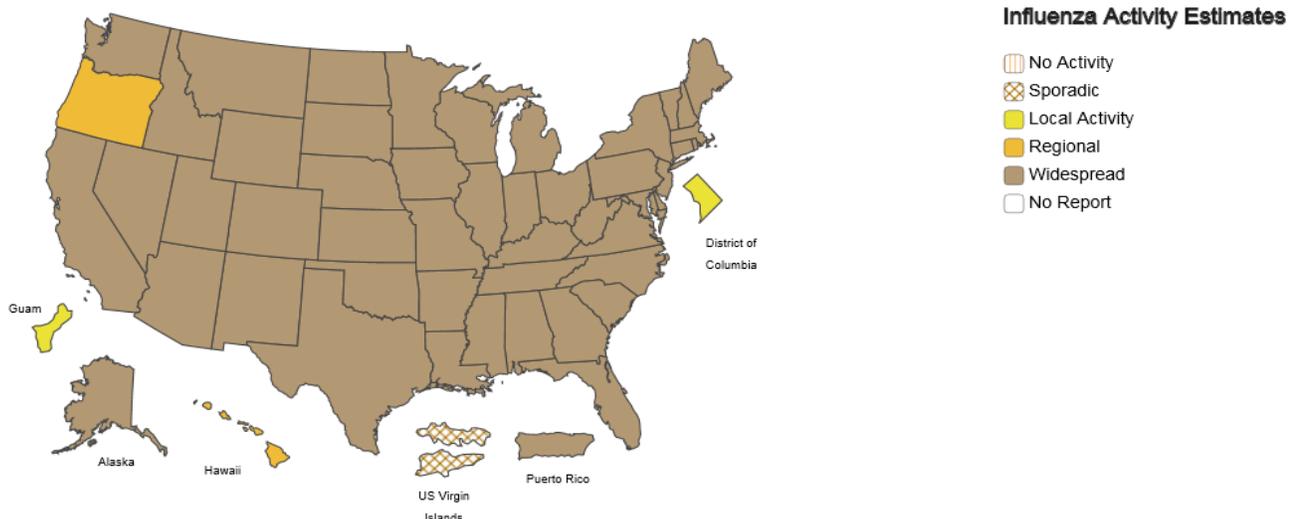


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Feb 03, 2018 - Week 5



During week 5, the following influenza activity was reported:

- **Widespread** influenza activity was reported by Puerto Rico and 48 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, **Nevada**, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Regional influenza activity was reported by two states (Hawaii and Oregon).
- Local influenza activity was reported by the District of Columbia and Guam.
- Sporadic activity was reported by the U.S. Virgin Islands.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #7: February 11, 2018 – February 17, 2018

Date: Wednesday, February 21, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 233 patients with influenza-like-illness (ILI) for week ending February 17, 2018 (week 7). The percentage of persons seen with ILI by the twelve providers was 3.1% (233/7521) which is above the regional baseline of 2.4%. During week 6, the percentage of patient visits to Nevada sentinel providers due to ILI was 2.8%. Nationwide during week 6 the percentage of visits to sentinel providers due to ILI was 7.5% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 3.0% to 11.8%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

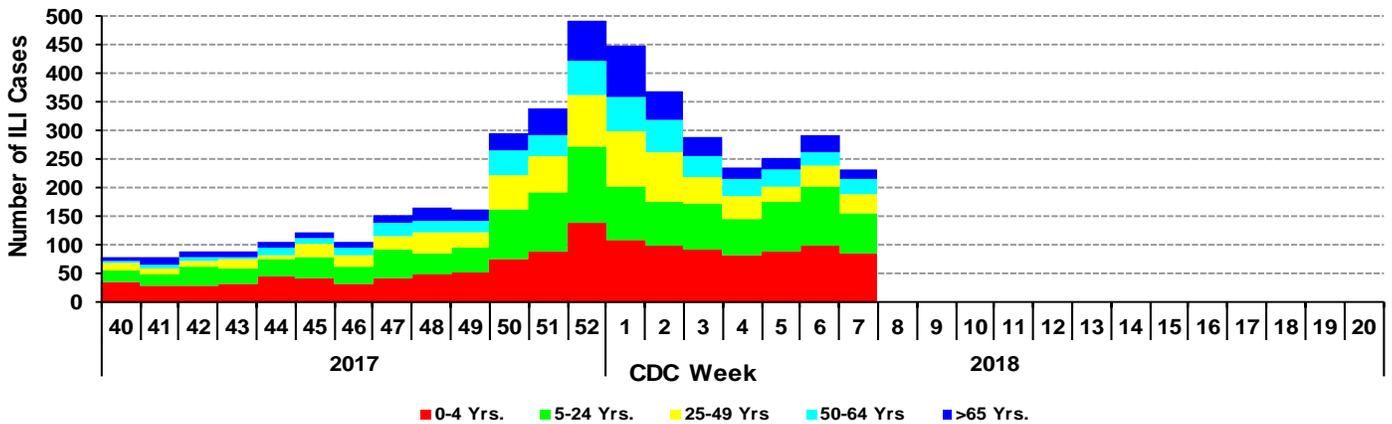
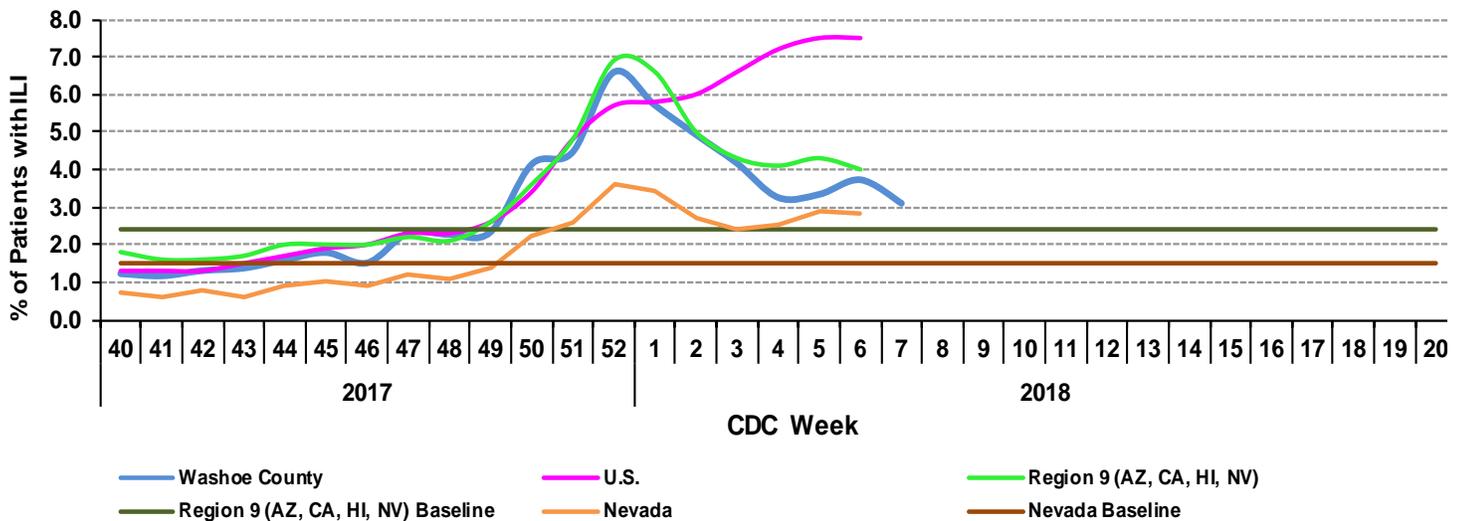


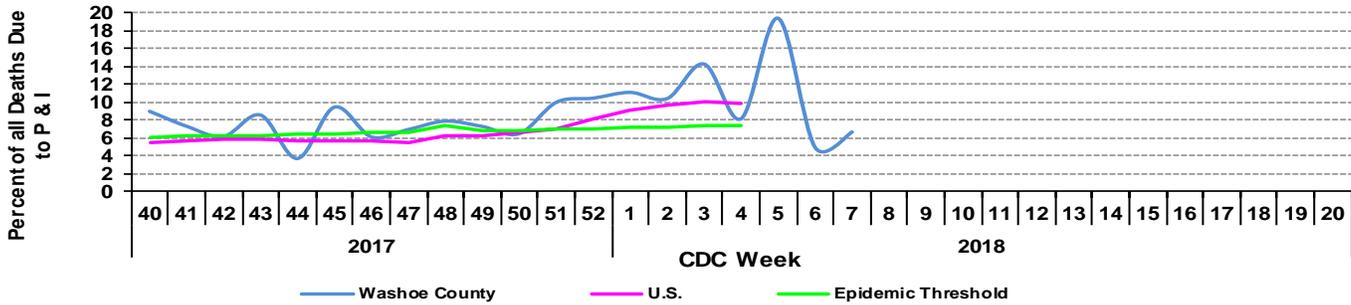
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Seven death certificates were received for week 7 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 7 was 105. This reflects a P&I ratio of 6.7% which is below the epidemic threshold set by CDC for week 4 at 7.3%. The national P&I for week 4 was above the epidemic threshold at 9.8%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 177. This reflects an overall P&I ratio of 8.9% (177/1994).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
7	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
51	25	12	14	0

Washoe County Total: 4,572 | Influenza type A: 2,993 | Influenza type B: 1,235 | Influenza unk type: 344

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 7) February 11 - February 17, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - February 17, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	210	14	6.7	5	35.7	0	0.0	0	0.0	0	0.0	4572	451	9.9	183	40.6	78	1.7	21	0.5
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	6	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	77	11	2.4	3	27.3	3	3.8	0	0.0	0	0.0
Influenza A (not subtyped)	11	3	21.4	2	66.7	0	#DIV/0!	0	#DIV/0!	735	254	56.3	114	44.9	45	57.7	12	57.1	12	57.1
Influenza A (RIDT*)	40	1	7.1	1	100.0	0	#DIV/0!	0	#DIV/0!	2175	104	23.1	37	35.6	15	19.2	5	23.8	5	23.8
Influenza B (RIDT*)	109	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	952	13	2.9	4	30.8	0	0.0	1	4.8	1	4.8
Influenza B (non-RIDT**)	33	10	71.4	2	20.0	0	#DIV/0!	0	#DIV/0!	283	67	14.9	25	37.3	15	19.2	3	14.3	3	14.3
Influenza (unknown type, RIDT*)	17	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	344	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0

*RIDT: *Rapid Influenza Diagnostic Test
 **Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.
^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

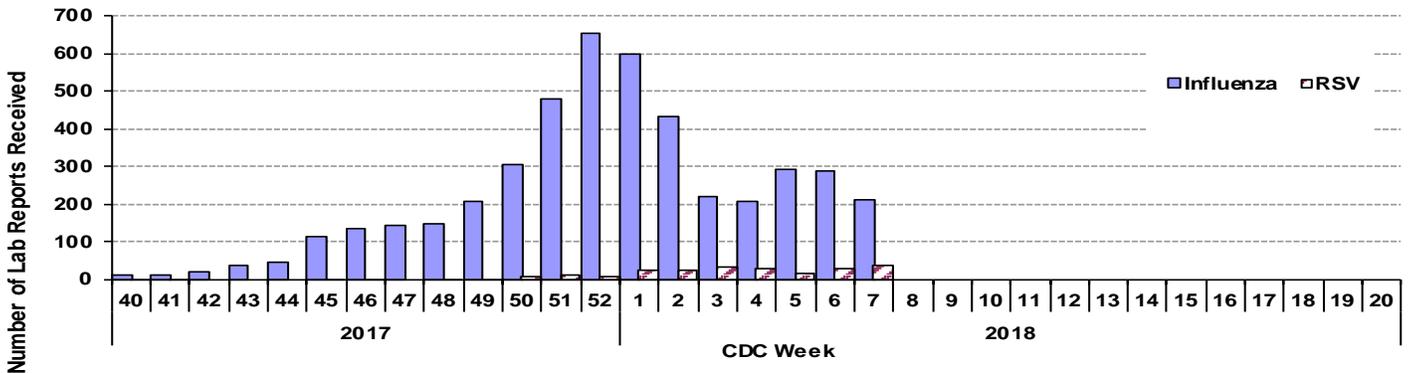


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

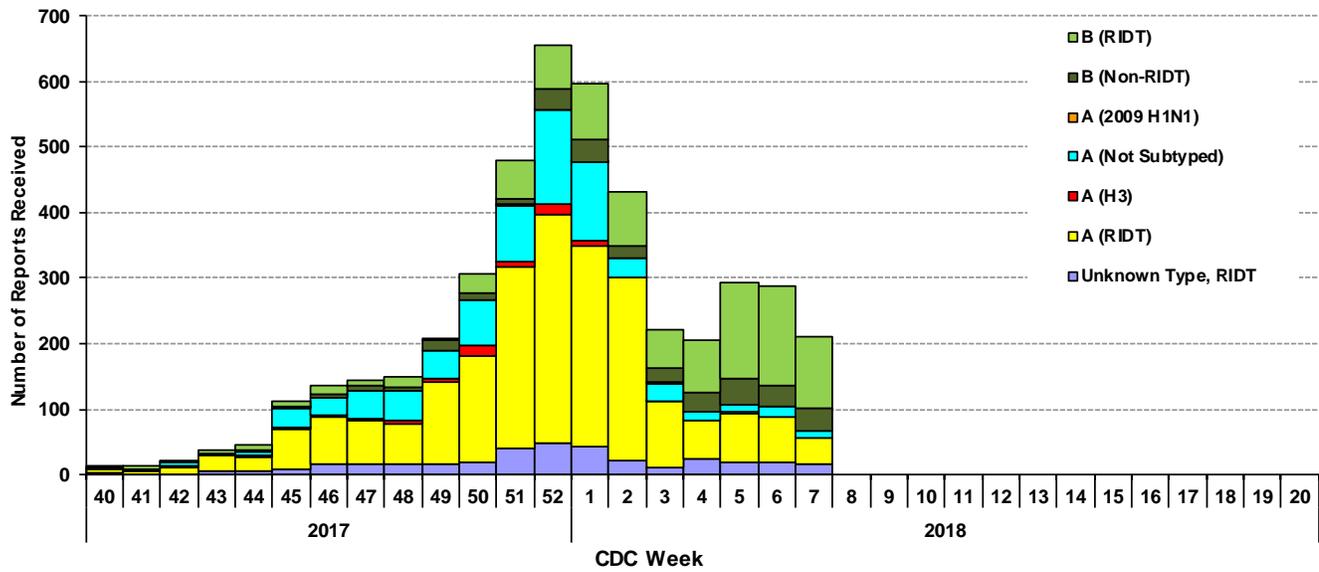


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

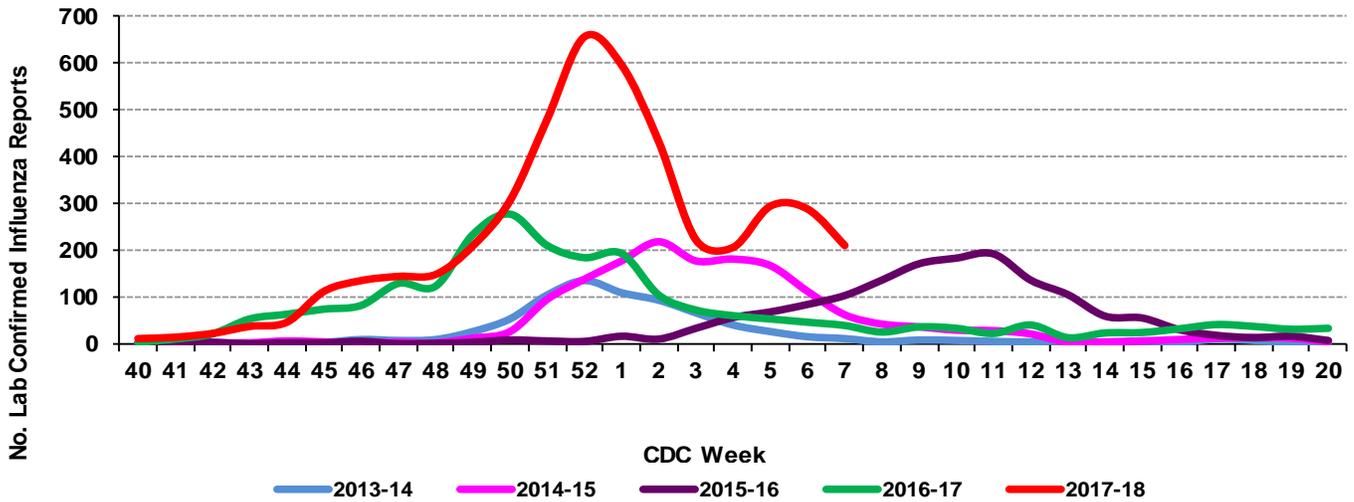
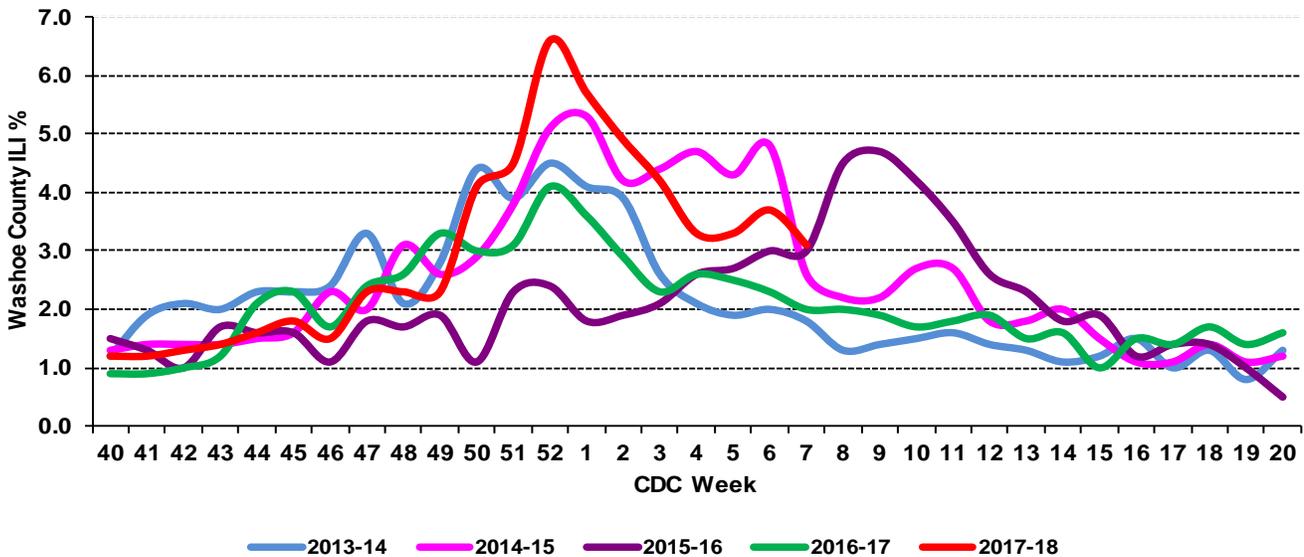
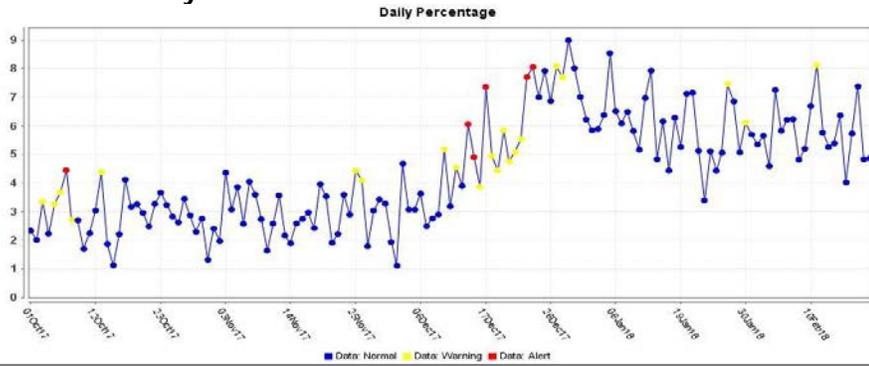


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

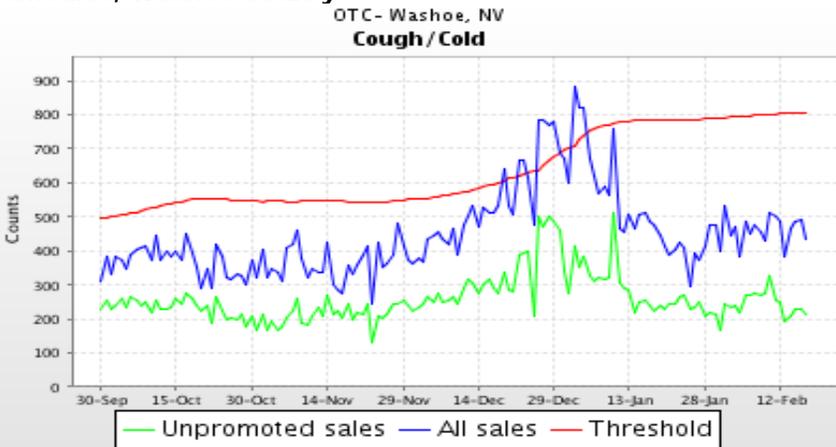
Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County



Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms. (Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

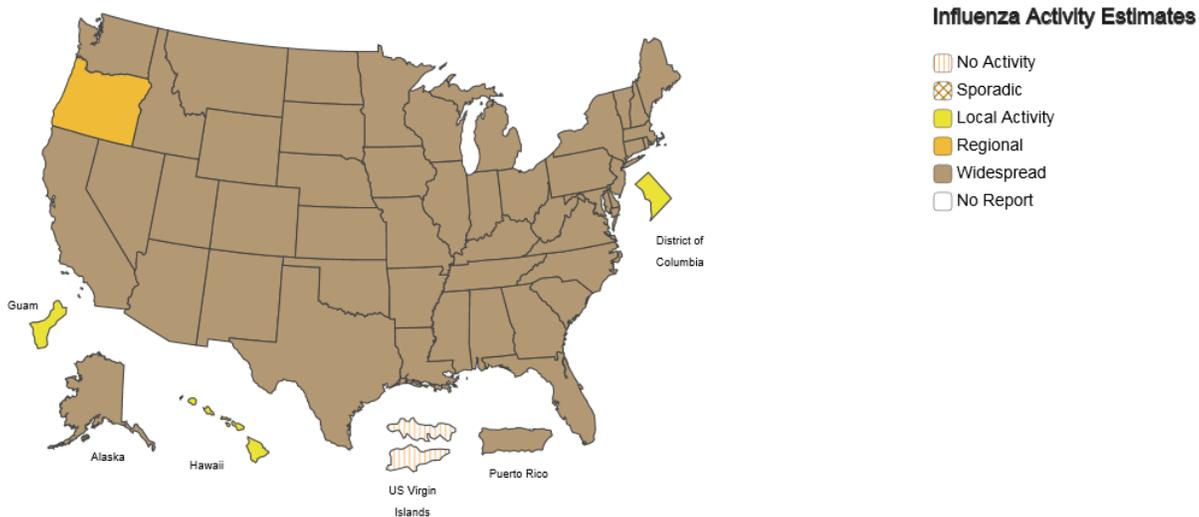


Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Feb 10, 2018 - Week 6



During week 6, the following influenza activity was reported:

- **Widespread** influenza activity was reported by Puerto Rico and 48 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Regional influenza activity was reported by one state (Oregon).
- Local influenza activity was reported by the District of Columbia, Guam and one state (Hawaii).
- No influenza activity was reported by the U.S. Virgin Islands.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #8: February 18, 2018 – February 24, 2018

Date: Wednesday, February 28, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 223 patients with influenza-like-illness (ILI) for week ending February 24, 2018 (week 8). The percentage of persons seen with ILI by the twelve providers was 3.0% (223/7463) which is above the regional baseline of 2.4%. During week 7, the percentage of patient visits to Nevada sentinel providers due to ILI was 3.4%. Nationwide during week 7 the percentage of visits to sentinel providers due to ILI was 6.4% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 2.9% to 10.3%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

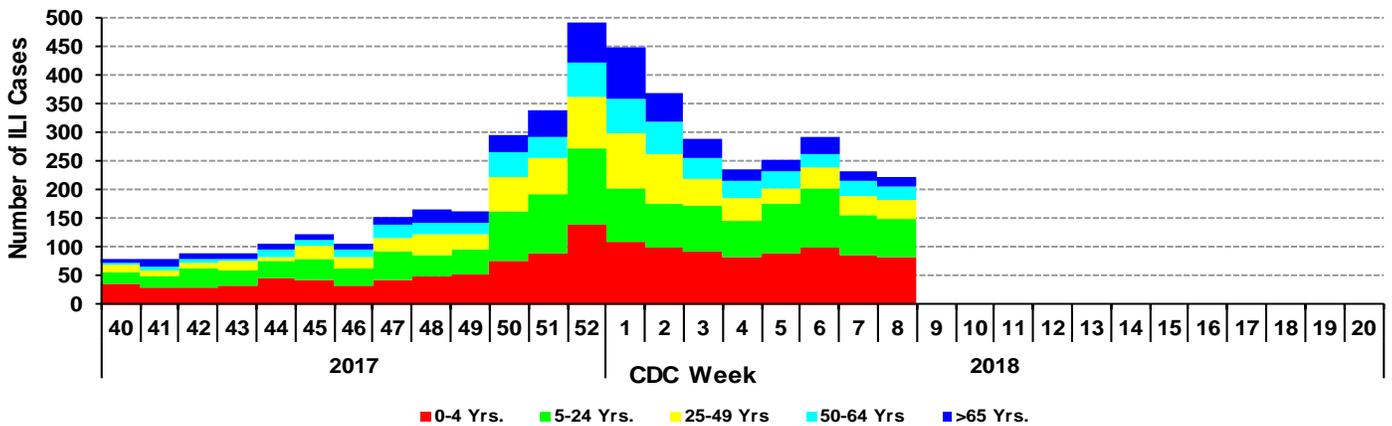
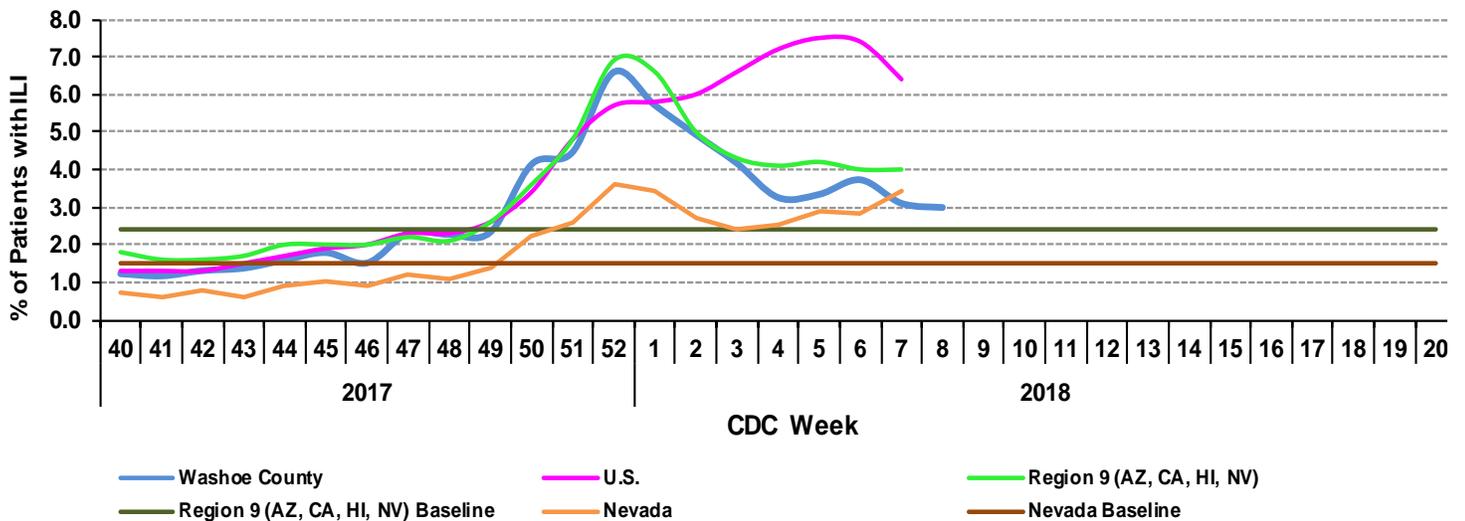


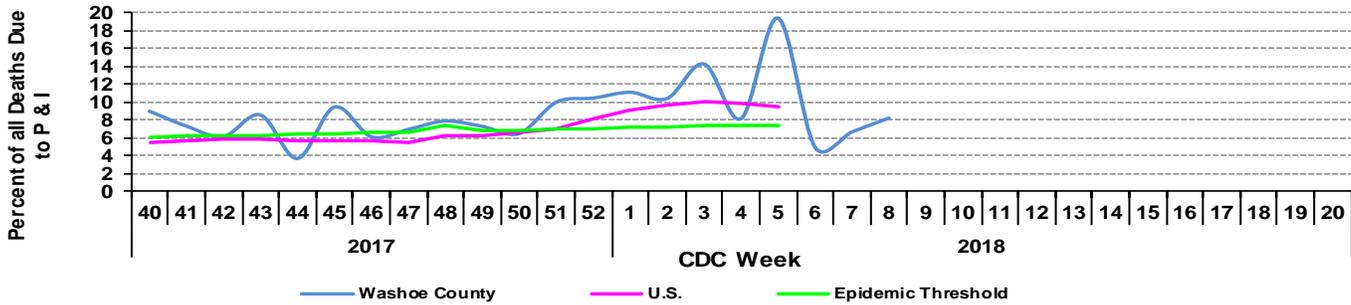
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Six death certificates were received for week 8 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 8 was 73. This reflects a P&I ratio of 8.2% which is above the epidemic threshold set by CDC for week 5 at 7.4%. The national P&I for week 5 was above the epidemic threshold at 9.5%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 183. This reflects an overall P&I ratio of 8.9% (183/2067).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
8	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
53	25	12	16	0

Washoe County Total: 4,808 | Influenza type A: 3,066 | Influenza type B: 1,378 | Influenza unk type: 364

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 8) February 18 - February 24, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - February 24, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	196	11	5.6	9	81.8	0	0.0	0	0.0	4808	467	9.7	194	41.5	79	1.6	21	0.4		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	6	1	0.2	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	77	11	2.4	3	27.3	3	3.8	0	0.0		
Influenza A (not subtyped)	10	4	36.4	3	75.0	0	#DIV/0!	0	#DIV/0!	745	258	55.2	117	45.3	46	58.2	12	57.1		
Influenza A (RIDT*)	47	2	18.2	2	100.0	0	#DIV/0!	0	#DIV/0!	2238	109	23.3	41	37.6	15	19.0	5	23.8		
Influenza B (RIDT*)	90	1	9.1	1	100.0	0	#DIV/0!	0	#DIV/0!	1067	15	3.2	5	33.3	0	0.0	1	4.8		
Influenza B (non-RIDT**)	30	4	36.4	3	75.0	0	#DIV/0!	0	#DIV/0!	311	72	15.4	28	38.9	15	19.0	3	14.3		
Influenza (unknown type, RIDT*)	19	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	364	1	0.2	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

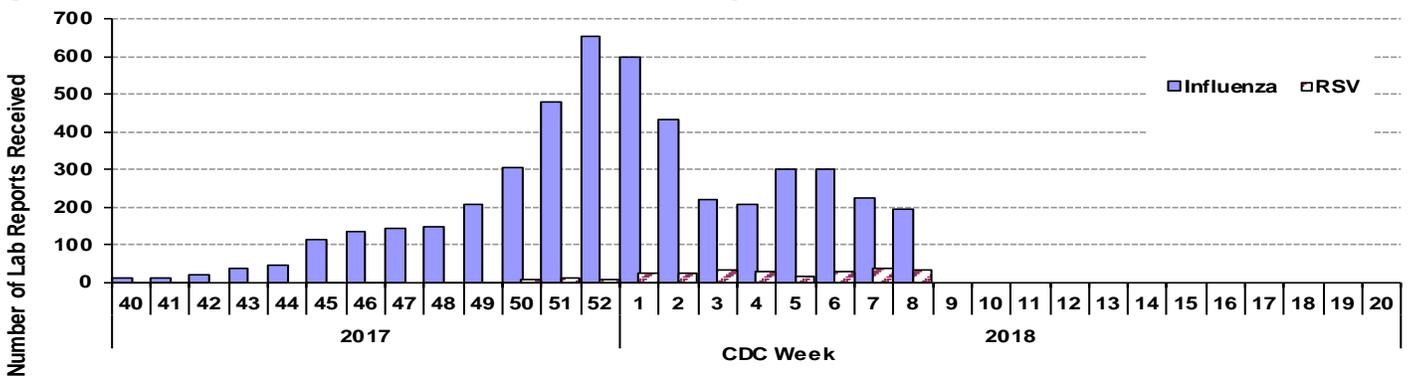


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

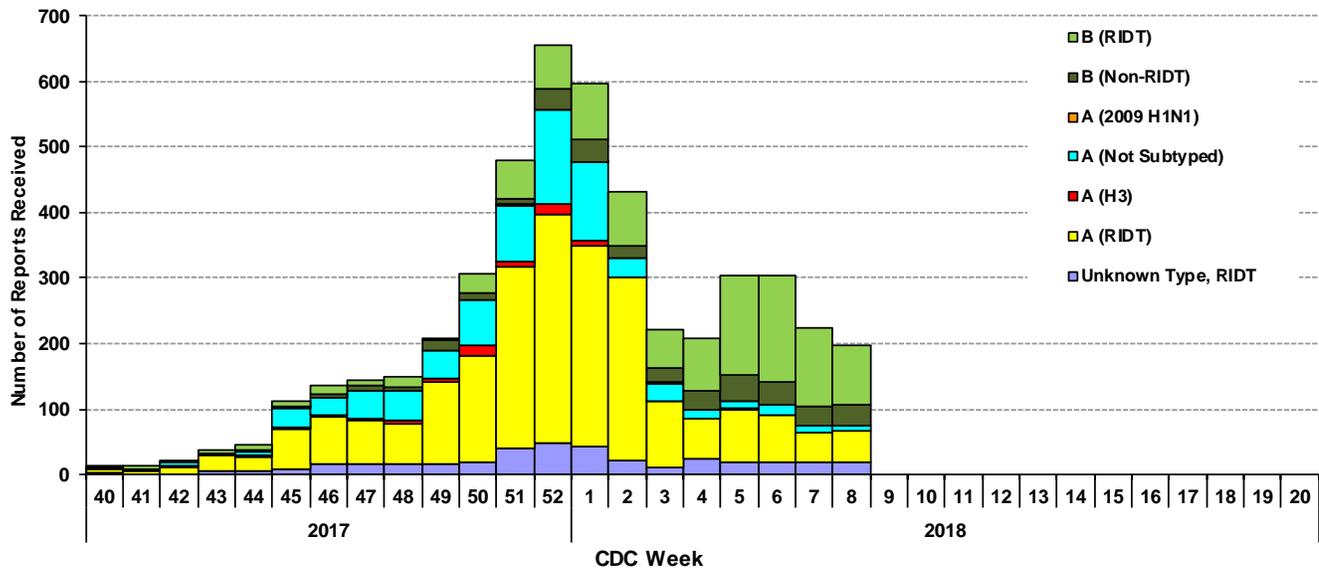


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

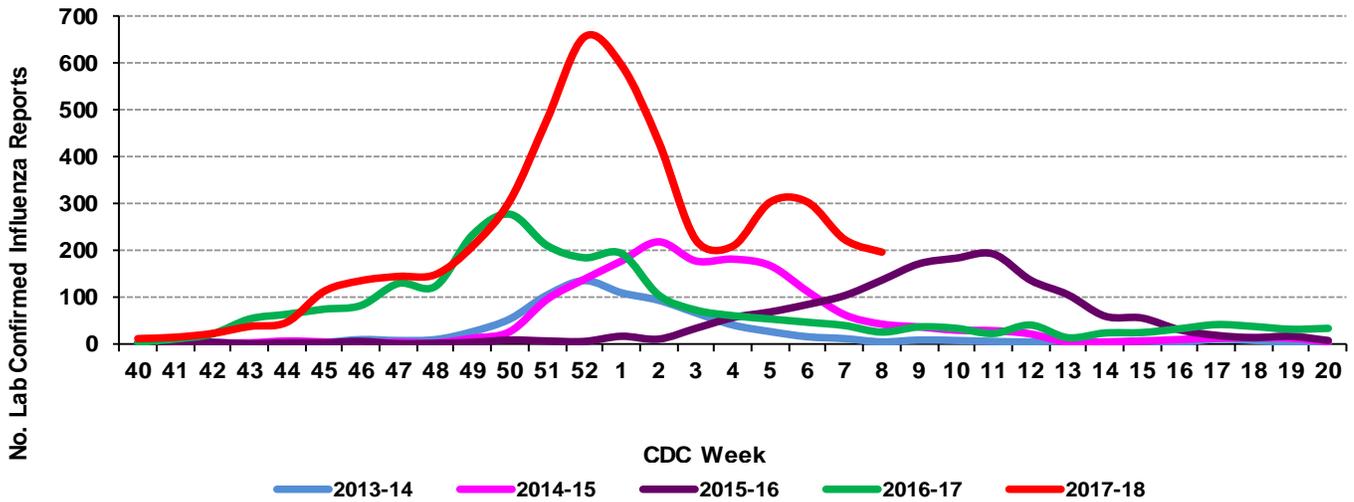
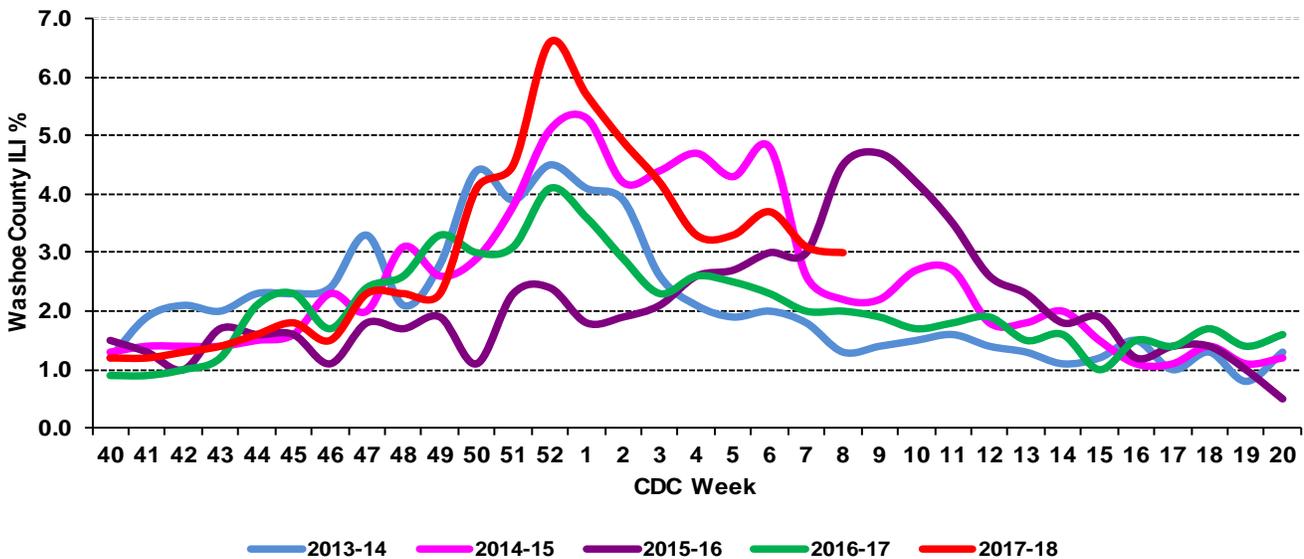
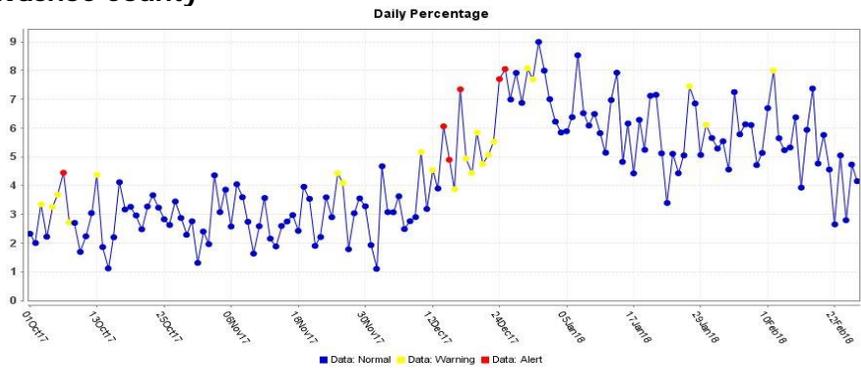


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

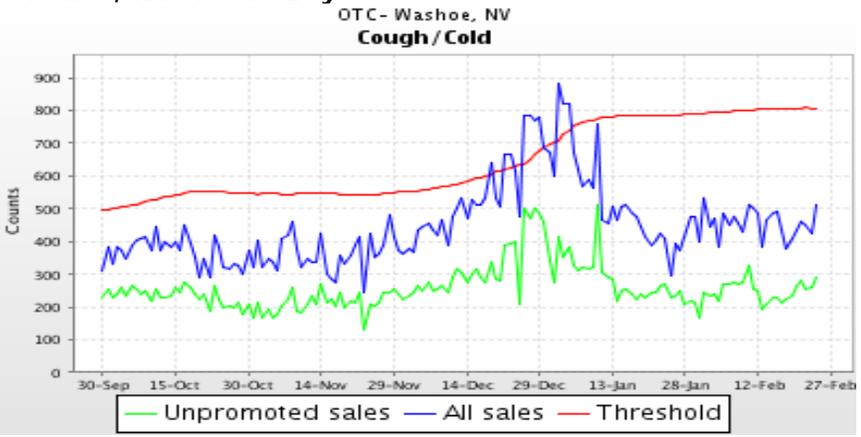


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

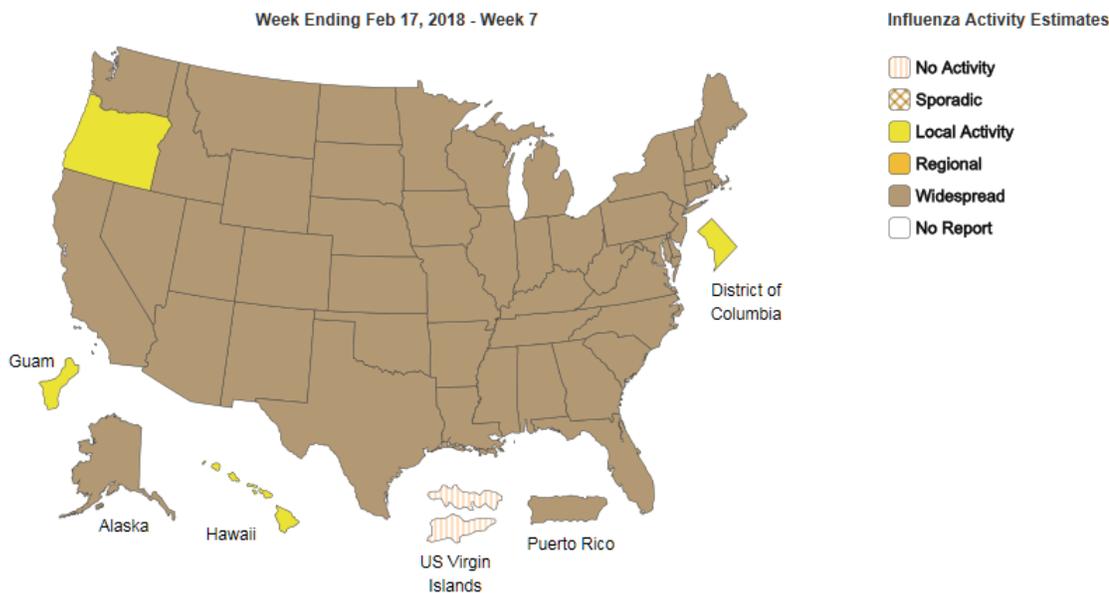


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 7, the following influenza activity was reported:

- **Widespread** influenza activity was reported by Puerto Rico and 48 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, **Nevada**, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Local influenza activity was reported by the District of Columbia, Guam and two states (Hawaii and Oregon).
- No influenza activity was reported by the U.S. Virgin Islands.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #9: February 25, 2018 – March 3, 2018

Date: Wednesday, March 7, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 161 patients with influenza-like-illness (ILI) for week ending March 3, 2018 (week 9). The percentage of persons seen with ILI by the twelve providers was 2.3% (161/7072) which is below the regional baseline of 2.4%. During week 8, the percentage of patient visits to Nevada sentinel providers due to ILI was 2.8%. Nationwide during week 8 the percentage of visits to sentinel providers due to ILI was 5.0% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 2.8% to 7.5%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

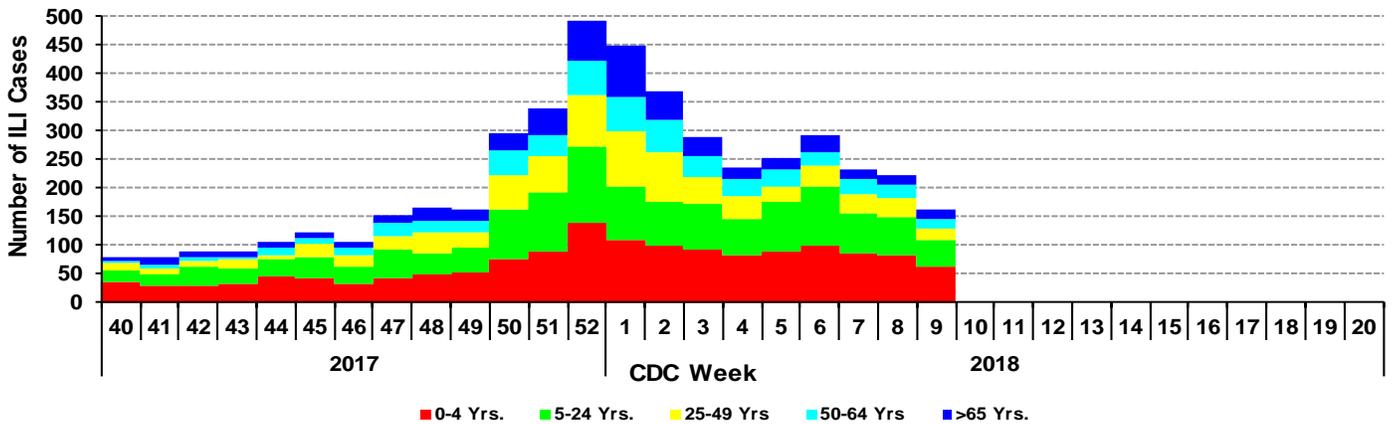
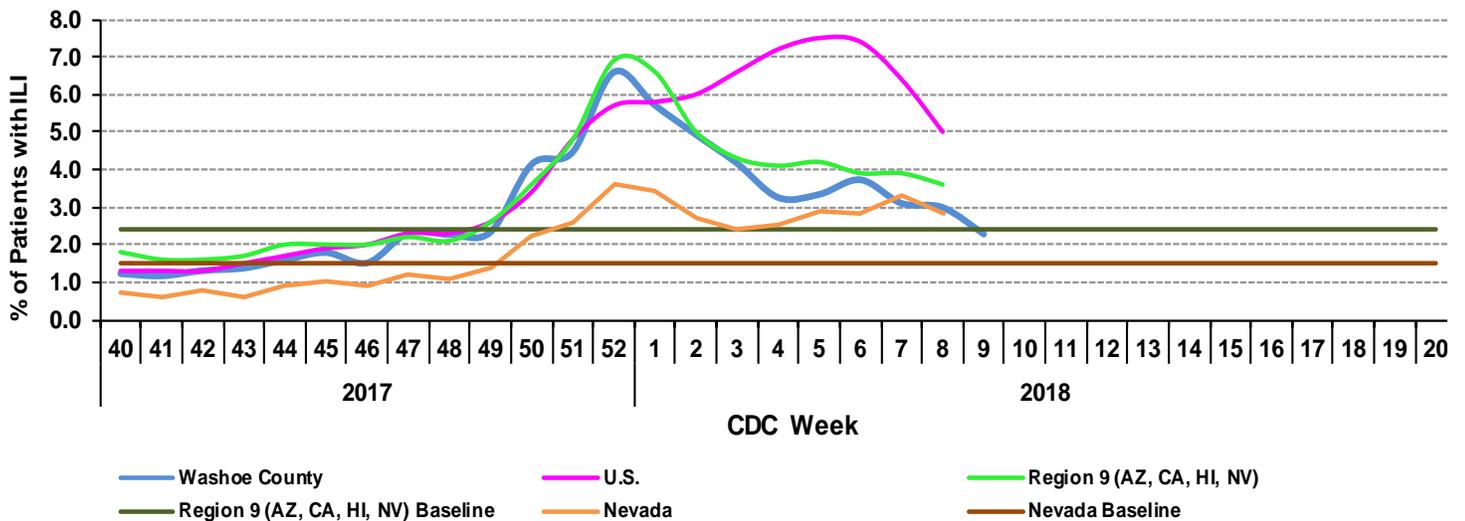


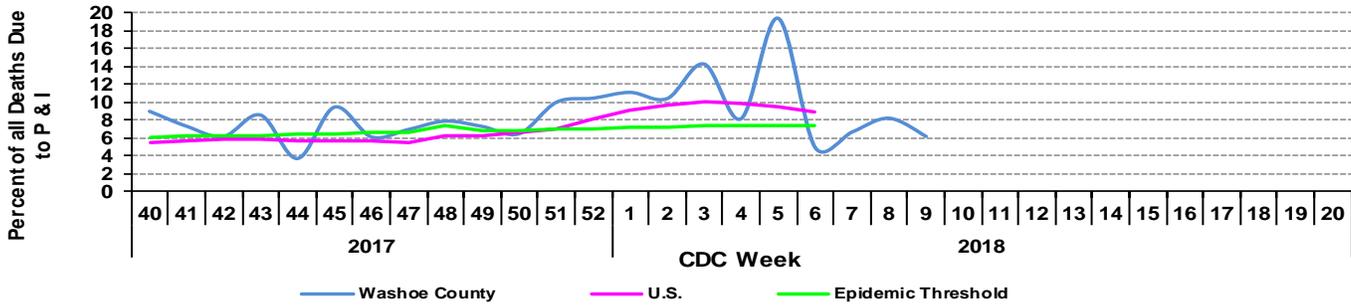
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Six death certificates were received for week 9 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 9 was 97. This reflects a P&I ratio of 6.2% which is below the epidemic threshold set by CDC for week 6 at 7.4%. The national P&I for week 6 was above the epidemic threshold at 9.0%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 189. This reflects an overall P&I ratio of 8.7% (189/2164).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
9	1	B (Yamagata)

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
54	25	13	16	0

Washoe County Total: 4,937 | Influenza type A: 3,101 | Influenza type B: 1,465 | Influenza unk type: 371

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 9) February 25 - March 3, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - March 3, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	126	9	7.1	4	44.4	0	0.0	0	0.0	4937	476	9.6	198	41.6	79	1.6	23	0.5		
Influenza A (2009 H1N1)	1	1	11.1	0	0.0	0	#DIV/0!	0	#DIV/0!	7	2	0.4	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	77	11	2.3	3	27.3	3	3.8	0	0.0		
Influenza A (not subtyped)	6	1	11.1	1	100.0	0	#DIV/0!	0	#DIV/0!	751	259	54.4	118	45.6	46	58.2	12	52.2		
Influenza A (RIDT*)	28	1	11.1	1	100.0	0	#DIV/0!	0	#DIV/0!	2266	110	23.1	42	38.2	15	19.0	5	21.7		
Influenza B (RIDT*)	56	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1124	15	3.2	5	33.3	0	0.0	1	4.3		
Influenza B (non-RIDT**)	28	6	66.7	2	33.3	0	#DIV/0!	0	#DIV/0!	341	78	16.4	30	38.5	15	19.0	5	21.7		
Influenza (unknown type, RIDT*)	7	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	371	1	0.2	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

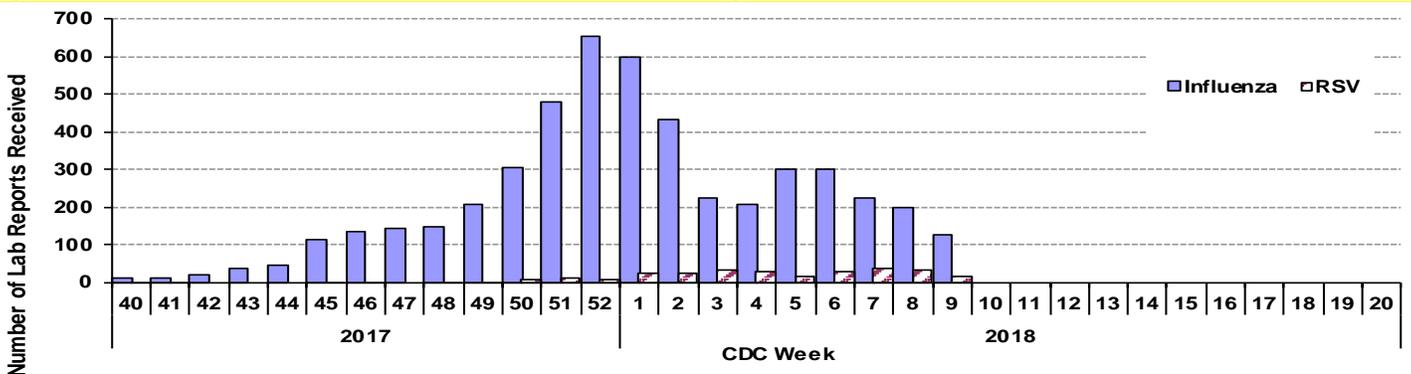


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

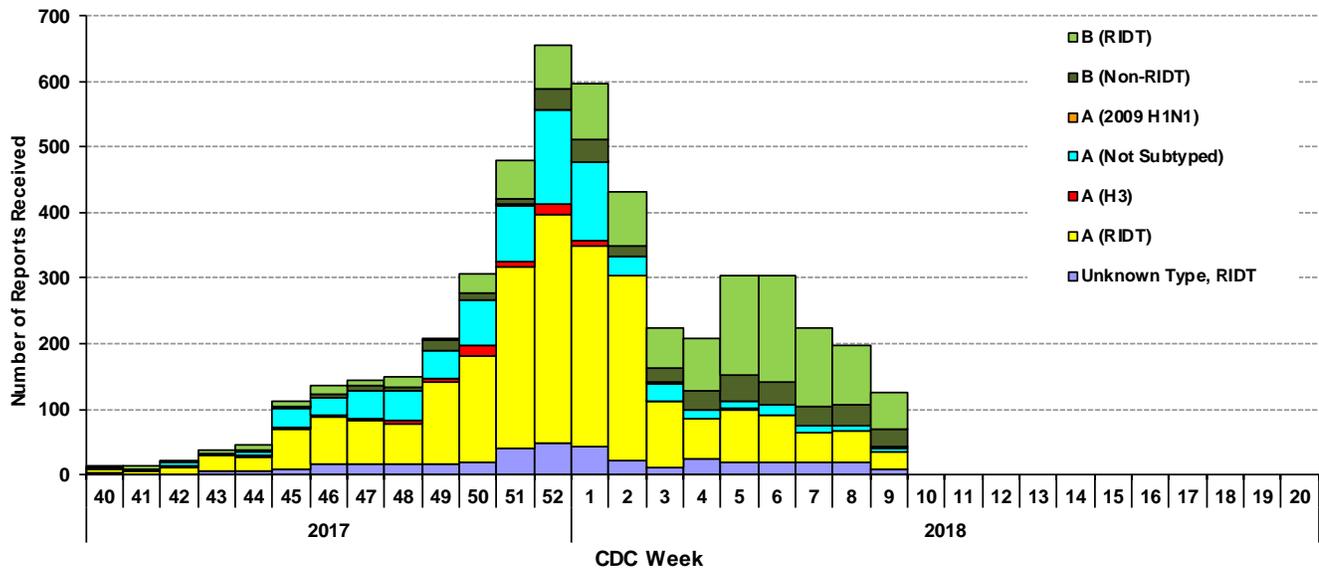


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

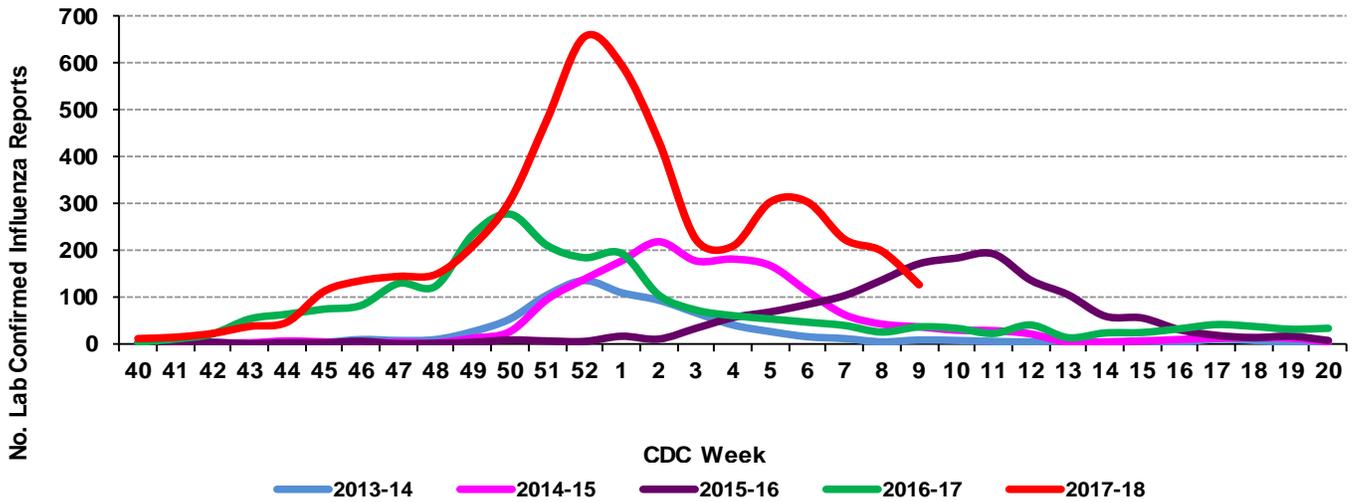
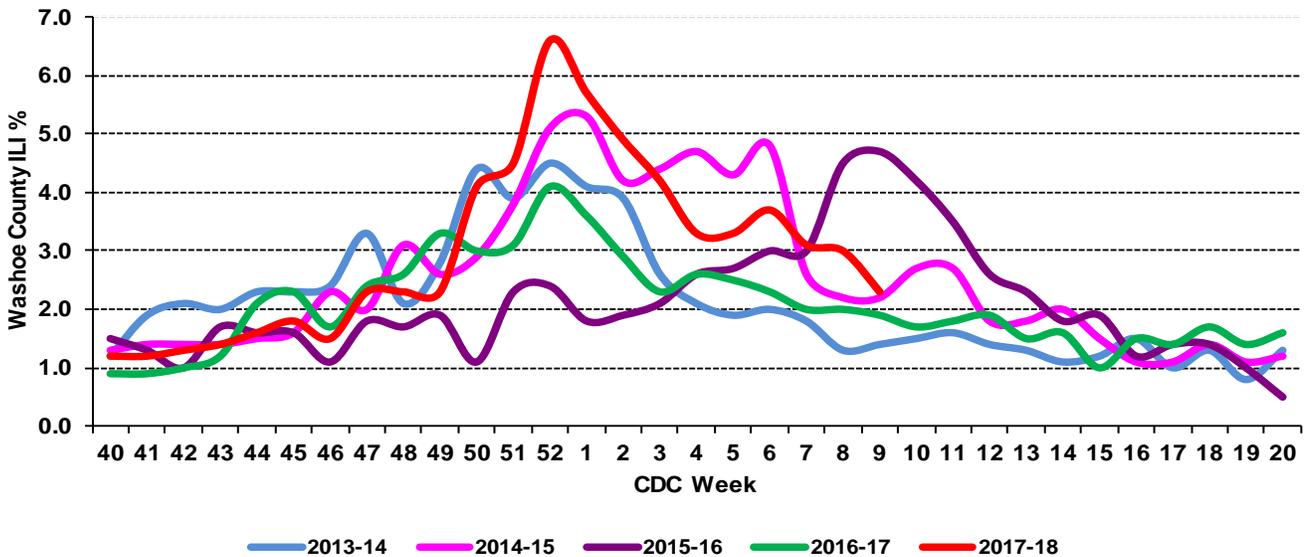
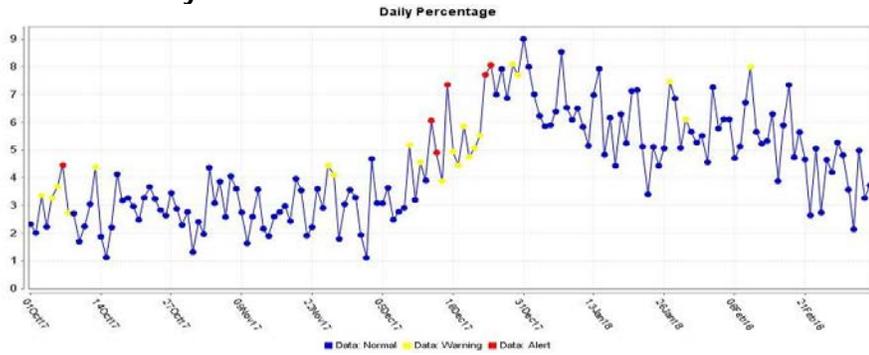


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

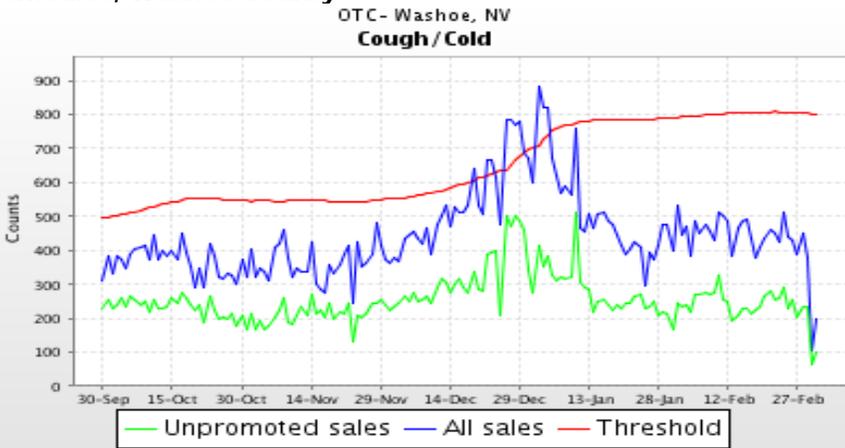


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County



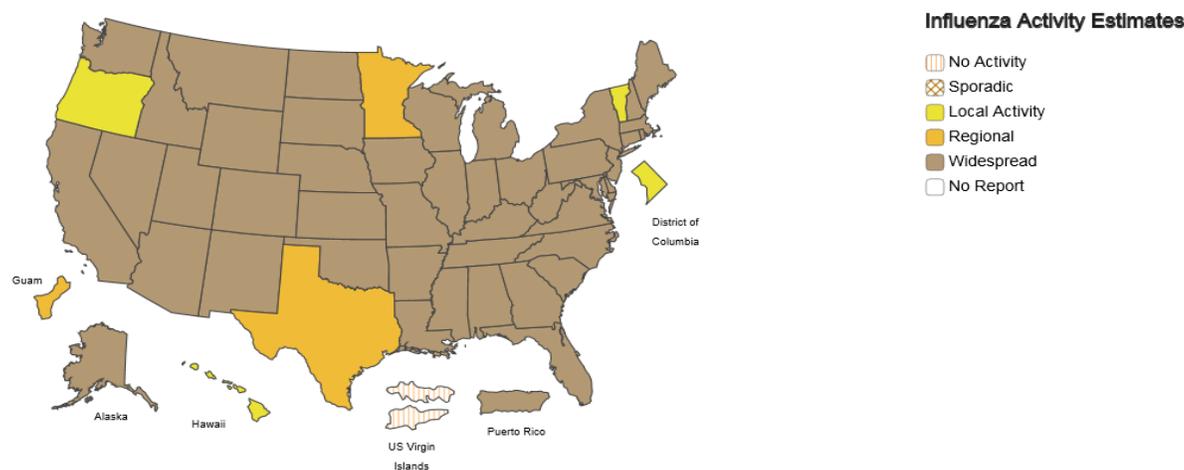
Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Weekly Influenza Activity Estimates Reported by State and Territorial Epidemiologists*

Week Ending Feb 24, 2018 - Week 8



During week 8, the following influenza activity was reported:

- **Widespread** influenza activity was reported by Puerto Rico and 45 states (Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Mississippi, Missouri, Montana, Nebraska, **Nevada**, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Utah, Virginia, Washington, West Virginia, Wisconsin, and Wyoming).
- Regional influenza activity was reported by Guam and two states (Minnesota and Texas).
- Local influenza activity was reported by the District of Columbia and three states (Hawaii, Oregon, and Vermont).
- No influenza activity was reported by the U.S. Virgin Islands.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #10: March 4, 2018 – March 10, 2018

Date: Wednesday, March 14, 2018

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPPH)
775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 127 patients with influenza-like-illness (ILI) for week ending March 10, 2018 (week 10). The percentage of persons seen with ILI by the twelve providers was 1.7% (127/7511) which is below the regional baseline of 2.4%. During week 9, the percentage of patient visits to Nevada sentinel providers due to ILI was 2.0%. Nationwide during week 9 the percentage of visits to sentinel providers due to ILI was 3.7% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 2.3% to 5.5%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

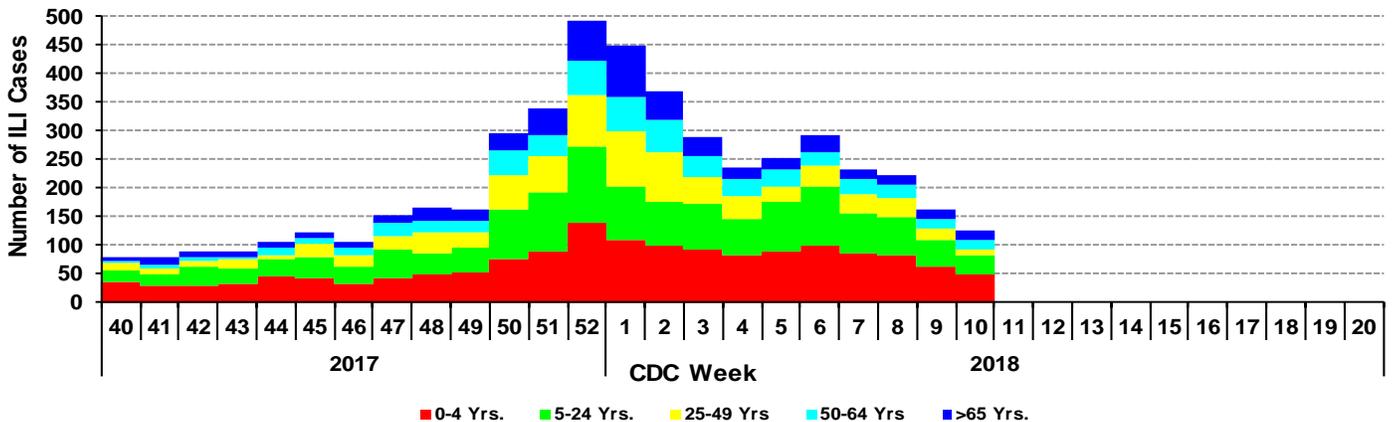
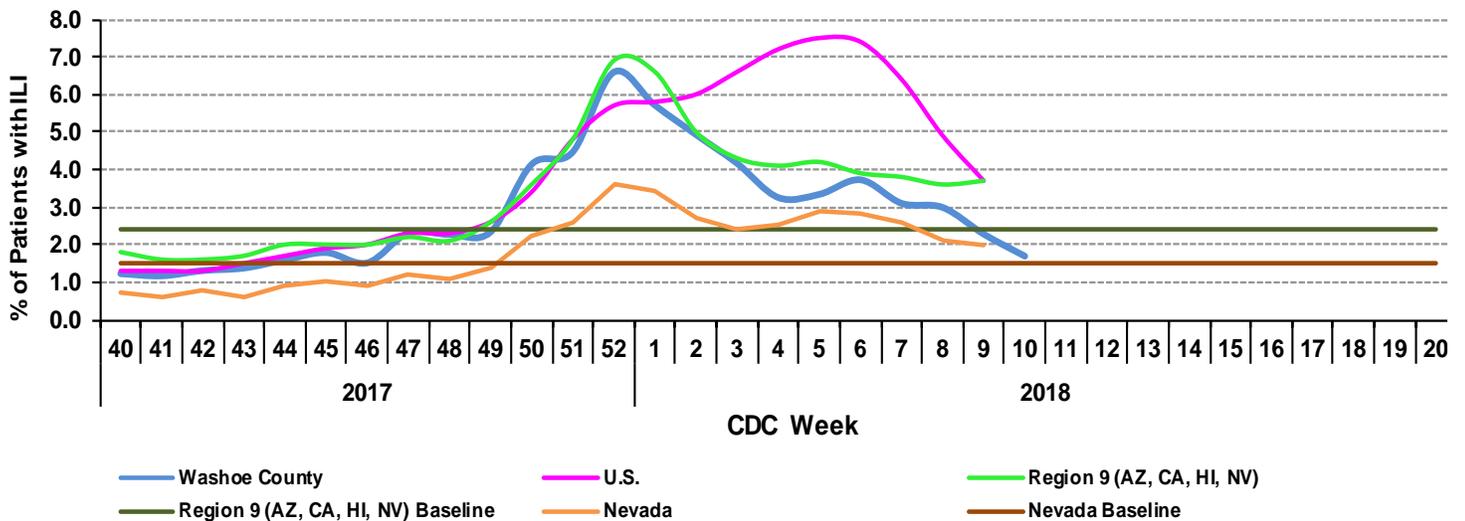


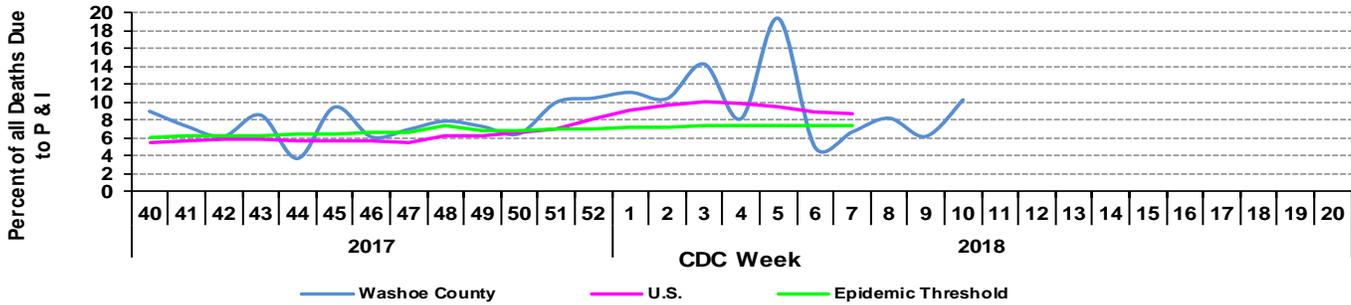
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Eleven death certificates were received for week 10 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 10 was 107. This reflects a P&I ratio of 10.3% which is above the epidemic threshold set by CDC for week 7 at 7.4%. The national P&I for week 7 was above the epidemic threshold at 8.4%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 200. This reflects an overall P&I ratio of 8.8% (200/2271).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
10	1	Negative

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
56	25	14	17	0

Washoe County Total: 5,067 | Influenza type A: 3,151 | Influenza type B: 1,537 | Influenza unk type: 379

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 10) March 4 - March 10, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - March 10, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	129	18	14.0	7	38.9	0	0.0	0	0.0	0	0.0	5067	492	9.7	205	41.7	79	1.6	23	0.5
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	7	2	0.4	0	0.0	0	0.0	0	0.0
Influenza A (seasonal H3)	1	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	78	11	2.2	3	27.3	3	3.8	0	0.0
Influenza A (not subtyped)	20	6	33.3	3	50.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	771	265	53.9	121	45.7	46	58.2	12	52.2
Influenza A (RIDT*)	28	3	16.7	1	33.3	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	2295	111	22.6	43	38.7	15	19.0	5	21.7
Influenza B (RIDT*)	50	1	5.6	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1174	16	3.3	5	31.3	0	0.0	1	4.3
Influenza B (non-RIDT**)	22	8	44.4	3	37.5	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	363	86	17.5	33	38.4	15	19.0	5	21.7
Influenza (unknown type, RIDT*)	8	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	379	1	0.2	0	0.0	0	0.0	0	0.0

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

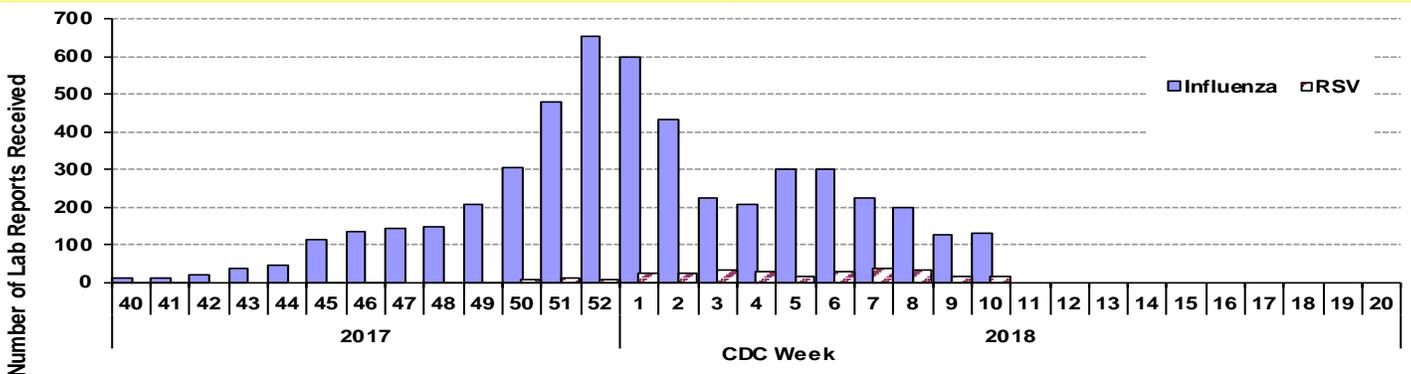


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

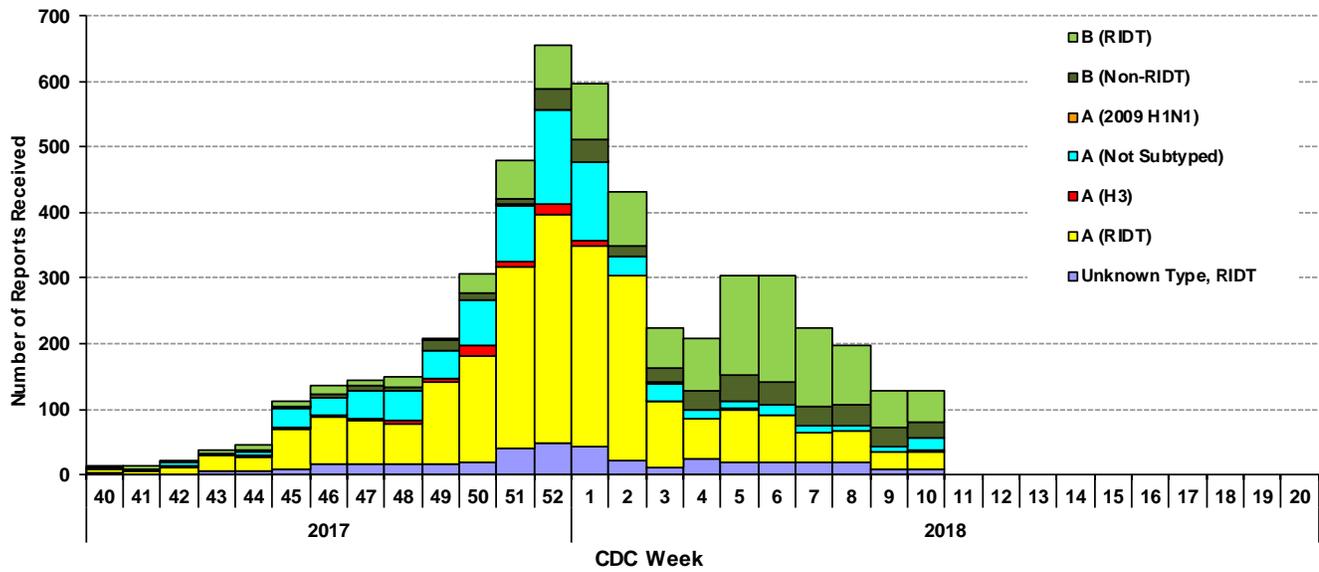


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

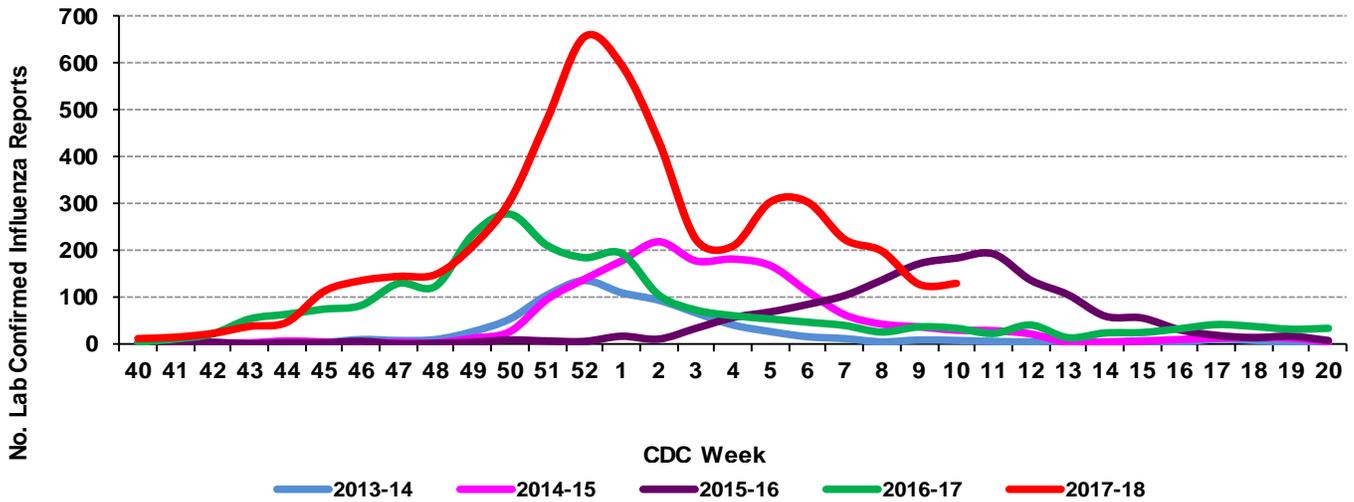
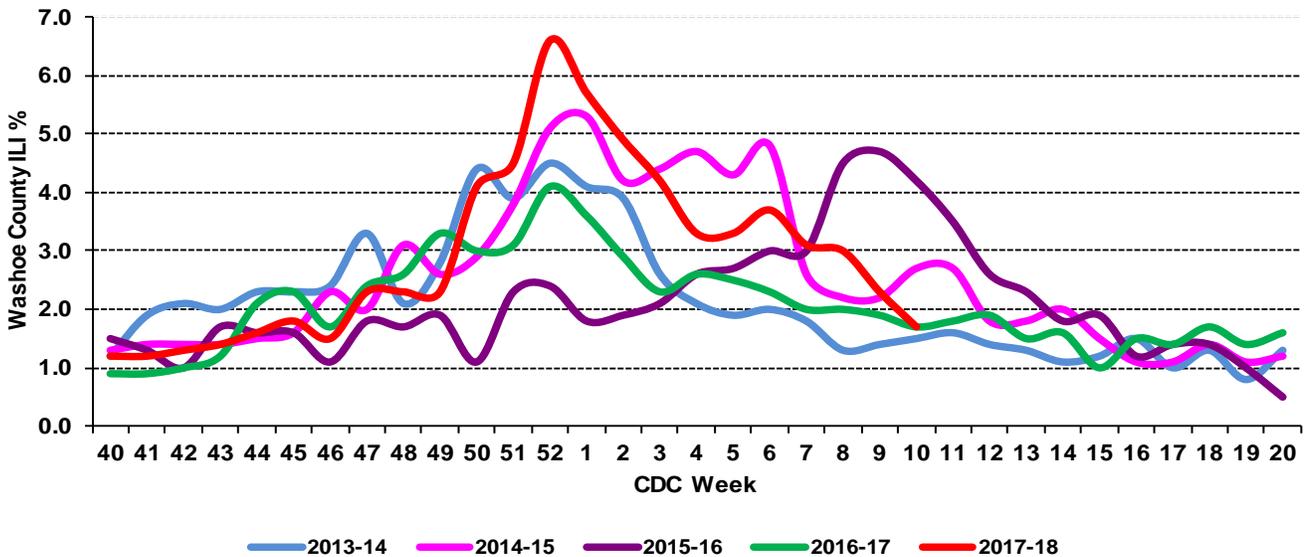
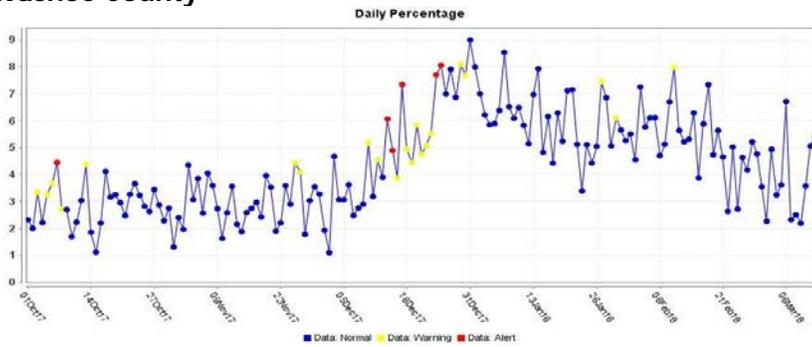


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

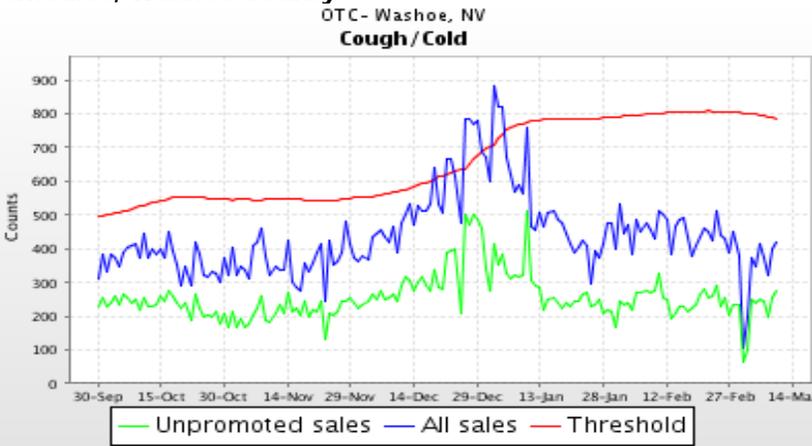


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

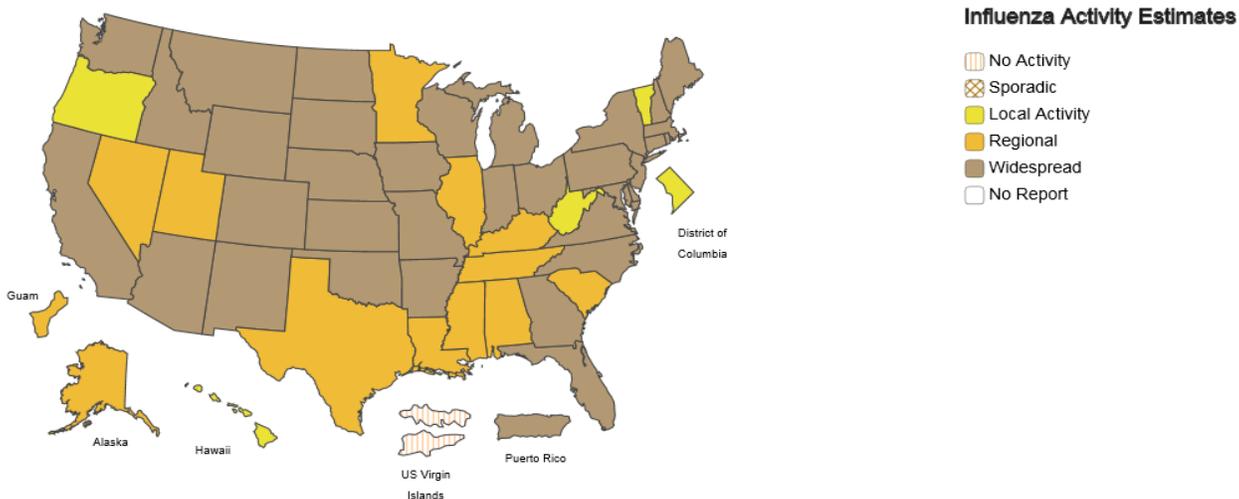


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor
Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Mar 03, 2018 - Week 9



During week 9, the following influenza activity was reported:

- Widespread influenza activity was reported by Puerto Rico and 34 states (Arizona, Arkansas, California, Colorado, Connecticut, Delaware, Florida, Georgia, Idaho, Indiana, Iowa, Kansas, Maine, Maryland, Massachusetts, Michigan, Missouri, Montana, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Pennsylvania, Rhode Island, South Dakota, Virginia, Washington, Wisconsin, and Wyoming).
- **Regional** influenza activity was reported by Guam and 12 states (Alabama, Alaska, Illinois, Kentucky, Louisiana, Minnesota, Mississippi, **Nevada**, South Carolina, Tennessee, Texas, and Utah).
- Local influenza activity was reported by the District of Columbia and four states (Hawaii, Oregon, Vermont, and West Virginia).
- No influenza activity was reported by the U.S. Virgin Islands.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #11: March 11, 2018 – March 17, 2018

Date: Wednesday, March 21, 2018

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPPH)
775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 154 patients with influenza-like-illness (ILI) for week ending March 17, 2018 (week 11). The percentage of persons seen with ILI by the twelve providers was 2.1% (154/7247) which is below the regional baseline of 2.4%. During week 10, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.9%. Nationwide during week 10 the percentage of visits to sentinel providers due to ILI was 3.3% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 1.9% to 4.9%. All ten regions reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

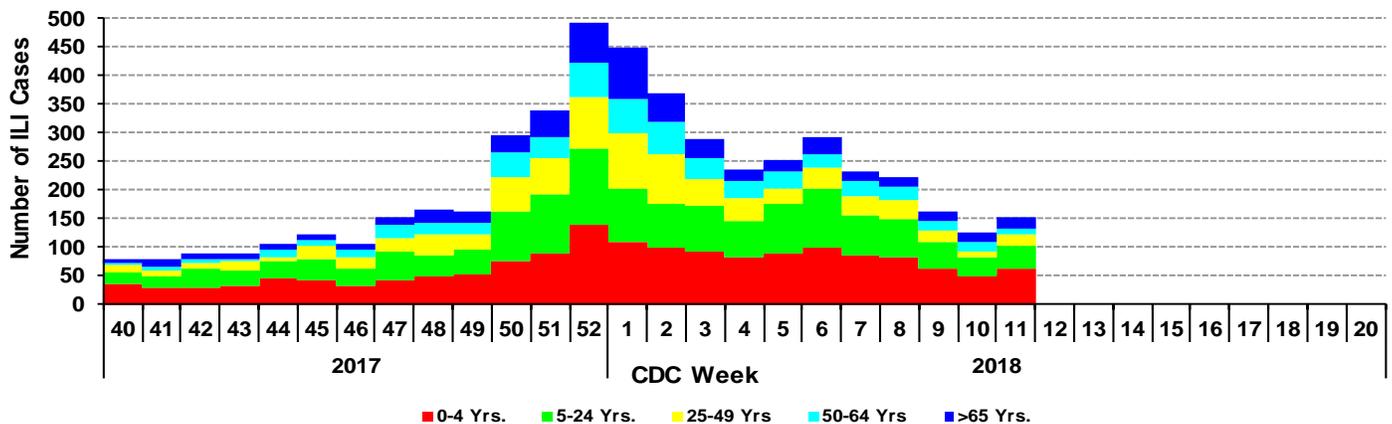
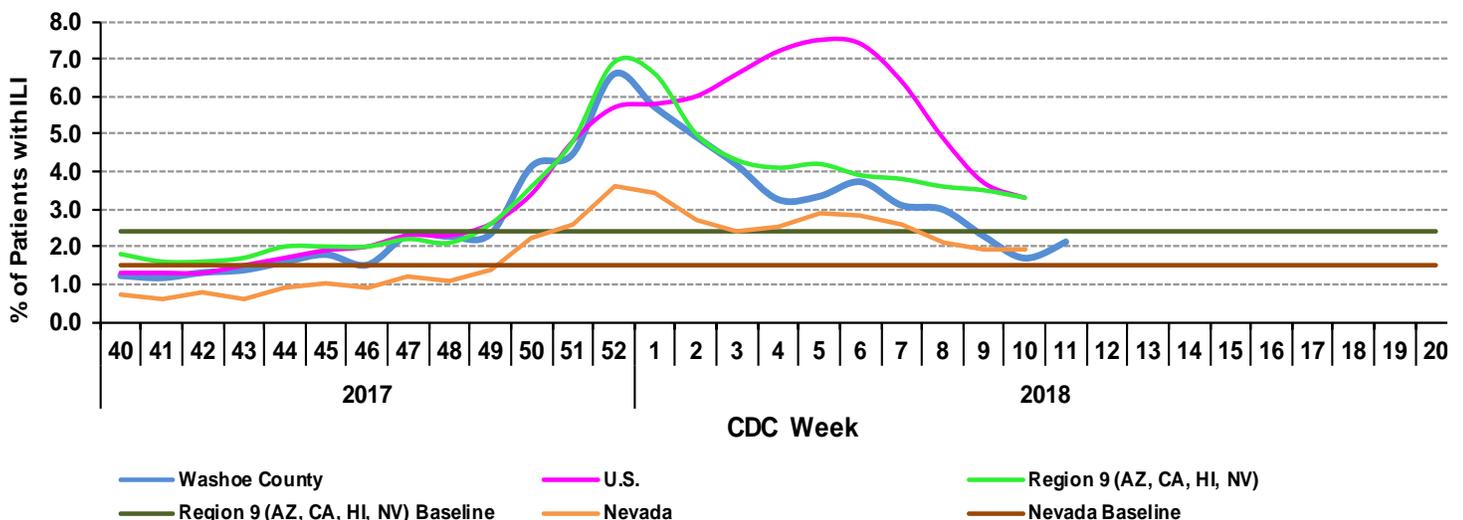


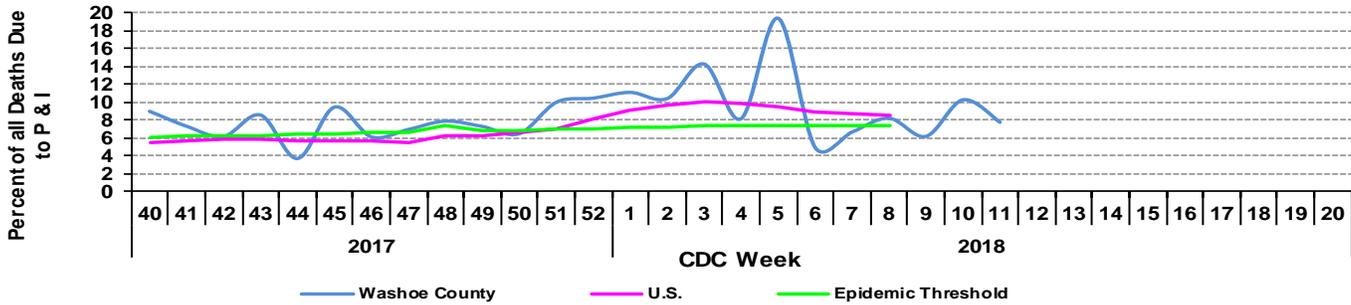
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Eight death certificates were received for week 11 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 11 was 103. This reflects a P&I ratio of 7.8% which is above the epidemic threshold set by CDC for week 8 at 7.4%. The national P&I for week 8 was above the epidemic threshold at 8.5%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 208. This reflects an overall P&I ratio of 8.8% (208/2374).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
11	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
56	25	14	17	0

Washoe County Total: 5,167 | Influenza type A: 3,178 | Influenza type B: 1,601 | Influenza unk type: 388

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 11) March 11 - March 17, 2018										Cumulative for 2017-2018 Influenza Season October 1, 2017 - March 17, 2018									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	96	5.2	5	5.2	1	20.0	1	1.0	0	0.0	5167	498	9.6	207	41.6	80	1.5	23	0.4	
Influenza A (2009 H1N1)	0	0.0	0	#DIV/0!	0	0.0	0	0.0	0	#DIV/0!	7	2	0.4	0	0.0	0	0.0	0	0.0	
Influenza A (seasonal H3)	0	0.0	0	#DIV/0!	0	0.0	0	0.0	0	#DIV/0!	79	12	2.4	4	33.3	3	3.8	0	0.0	
Influenza A (not subtyped)	4	20.0	1	0.0	0	0.0	1	100.0	0	#DIV/0!	775	266	53.4	121	45.5	47	58.8	12	52.2	
Influenza A (RIDT*)	20	0.0	0	#DIV/0!	0	0.0	0	0.0	0	#DIV/0!	2317	111	22.3	43	38.7	15	18.8	5	21.7	
Influenza B (RIDT*)	47	20.0	1	0.0	0	0.0	0	0.0	0	#DIV/0!	1222	17	3.4	5	29.4	0	0.0	1	4.3	
Influenza B (non-RIDT**)	16	60.0	3	33.3	1	33.3	0	0.0	0	#DIV/0!	379	89	17.9	34	38.2	15	18.8	5	21.7	
Influenza (unknown type, RIDT*)	9	0.0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	388	1	0.2	0	0.0	0	0.0	0	0.0	

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

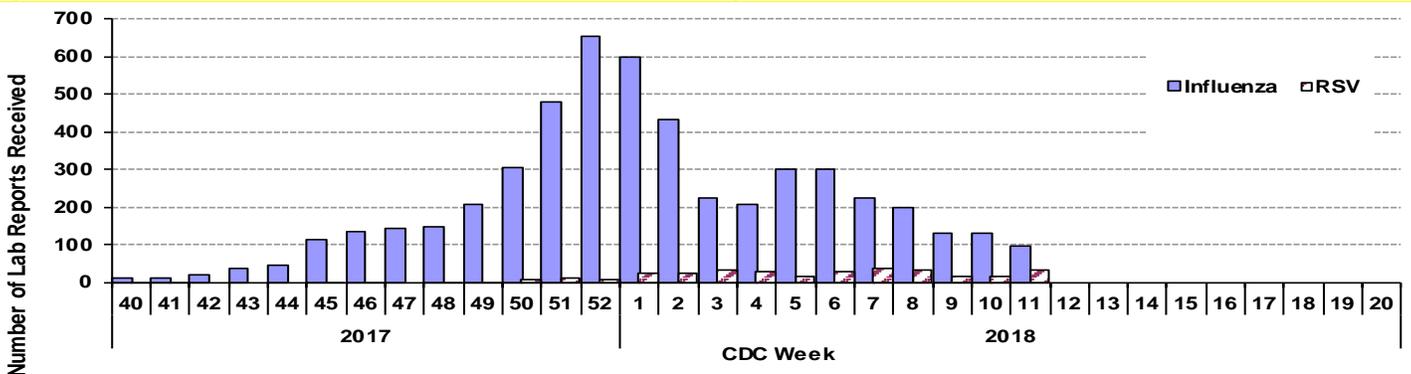


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

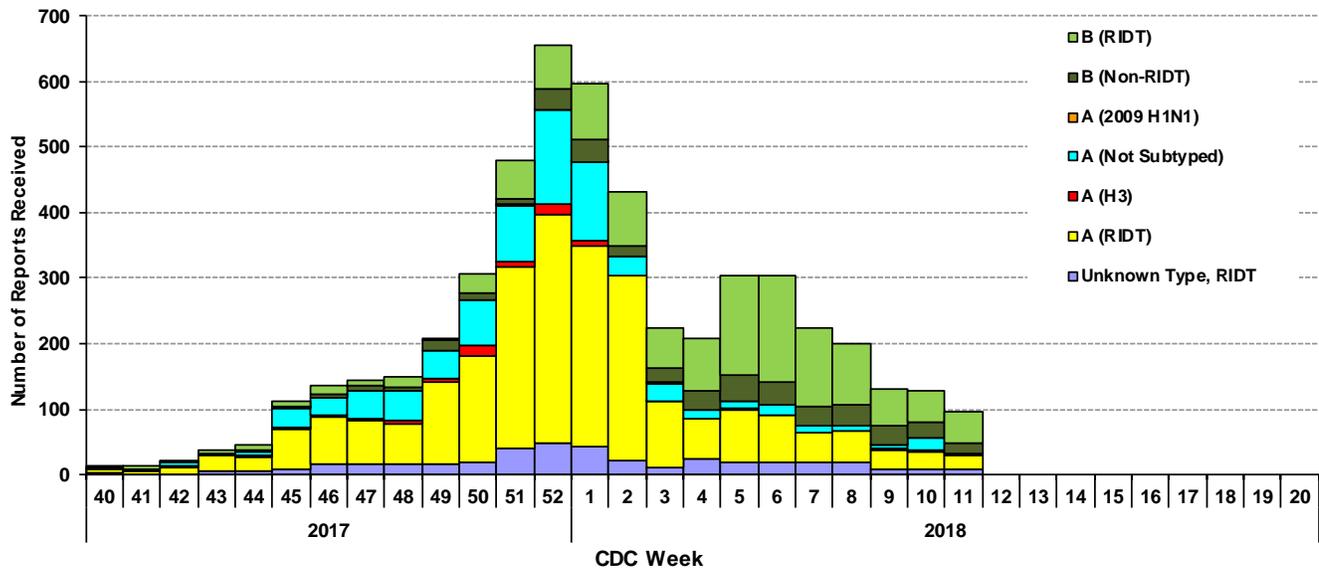


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

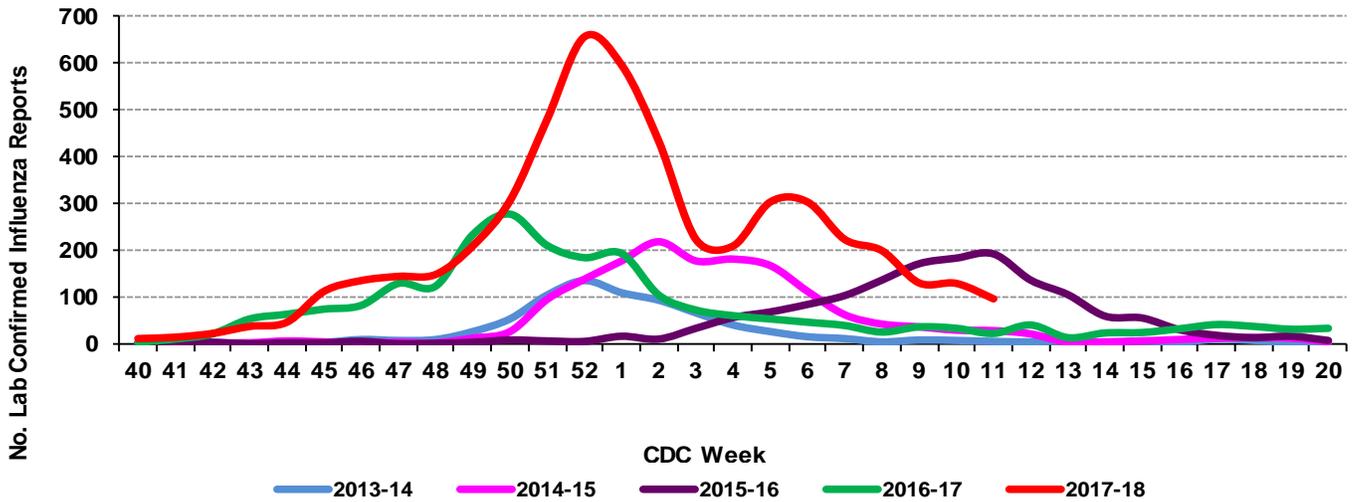
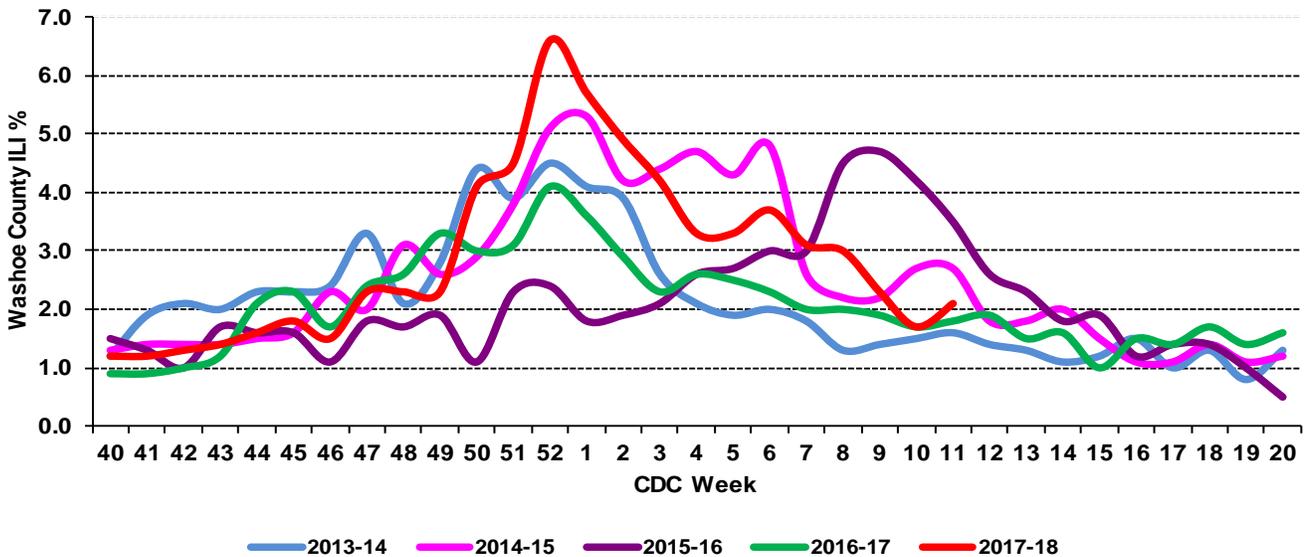
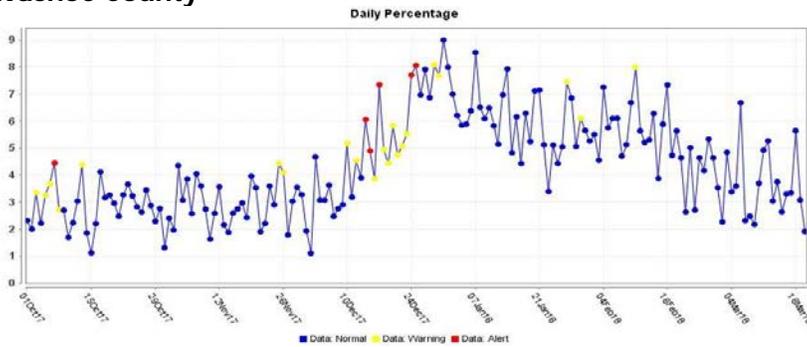


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

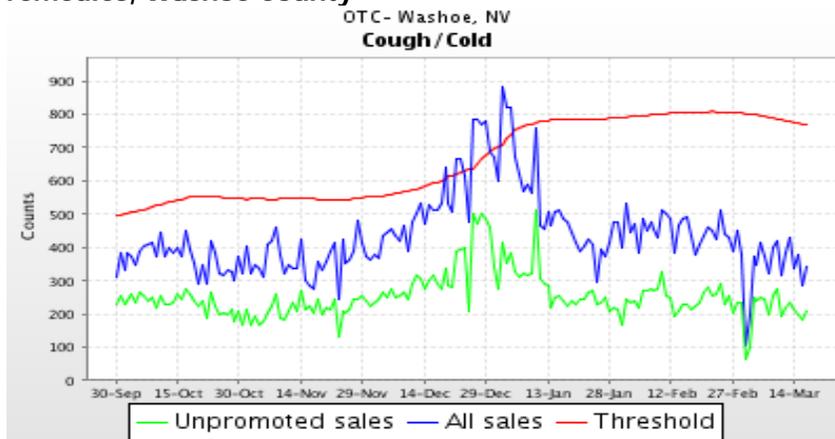


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

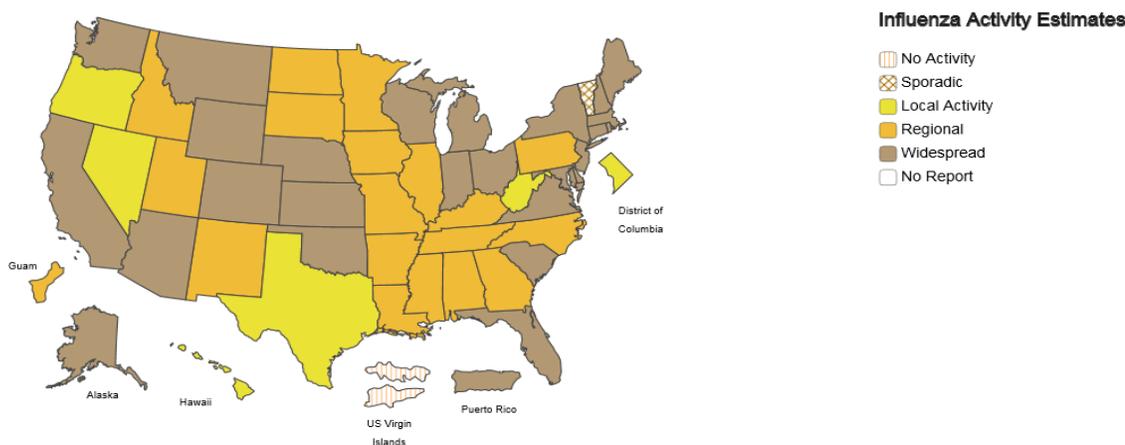


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Mar 10, 2018 - Week 10



During week 10, the following influenza activity was reported:

- Widespread influenza activity was reported by Puerto Rico and 26 states (Alaska, Arizona, California, Colorado, Connecticut, Delaware, Florida, Indiana, Kansas, Maine, Maryland, Massachusetts, Michigan, Montana, Nebraska, New Hampshire, New Jersey, New York, Ohio, Oklahoma, Rhode Island, South Carolina, Virginia, Washington, Wisconsin, and Wyoming).
- Regional influenza activity was reported by Guam and 18 states (Alabama, Arkansas, Georgia, Idaho, Illinois, Iowa, Kentucky, Louisiana, Minnesota, Mississippi, Missouri, New Mexico, North Carolina, North Dakota, Pennsylvania, South Dakota, Tennessee, and Utah).
- **Local** influenza activity was reported by the District of Columbia and five states (Hawaii, **Nevada**, Oregon, Texas, and West Virginia).
- Sporadic influenza activity was reported by one state (Vermont).
- No influenza activity was reported by the U.S. Virgin Islands.

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #12: March 18, 2018 – March 24, 2018

Date: Wednesday, March 28, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPPH)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 119 patients with influenza-like-illness (ILI) for week ending March 24, 2018 (week 12). The percentage of persons seen with ILI by the twelve providers was 1.7% (119/6801) which is below the regional baseline of 2.4%. During week 11, the percentage of patient visits to Nevada sentinel providers due to ILI was 2.3%. Nationwide during week 11 the percentage of visits to sentinel providers due to ILI was 2.7% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 1.8% to 3.4%. Nine regions (Regions 1, 2, 3, 4, 5, 7, 8, 9, and 10) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

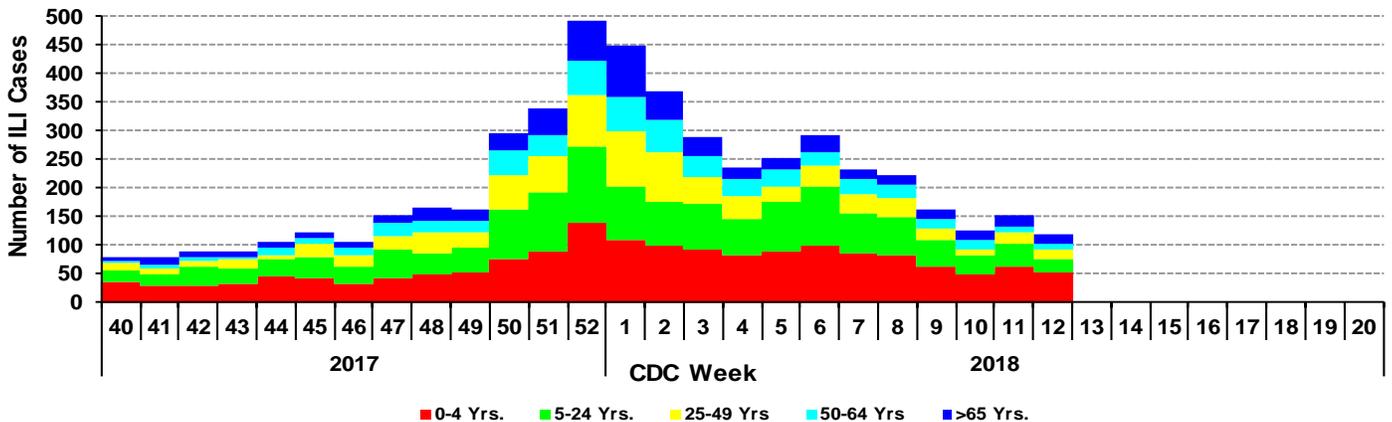
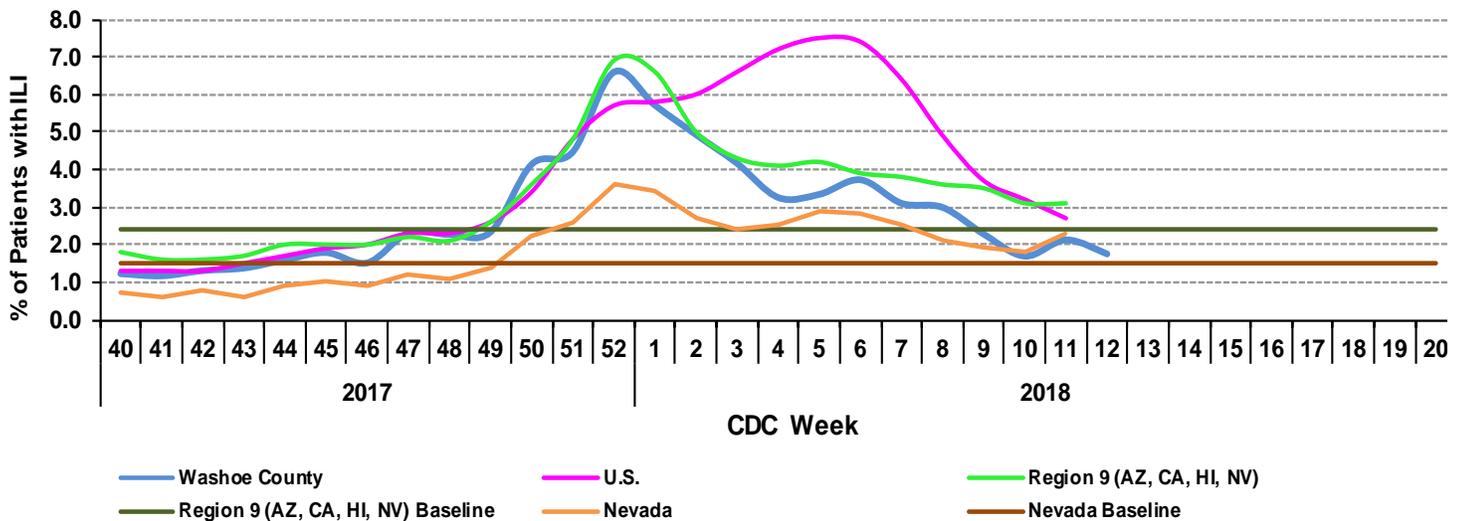


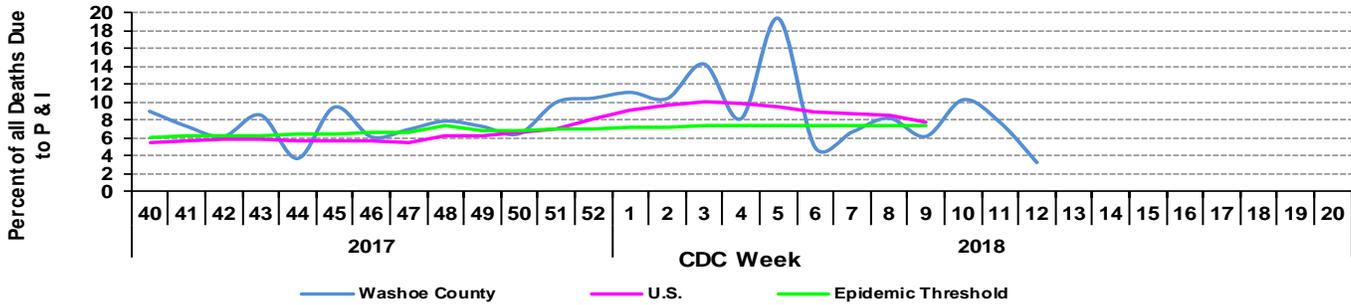
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Four death certificates were received for week 12 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 12 was 123. This reflects a P&I ratio of 3.3% which is below the epidemic threshold set by CDC for week 9 at 7.4%. The national P&I for week 9 was above the epidemic threshold at 7.8%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 212. This reflects an overall P&I ratio of 8.5% (212/2497).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
12	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
57	25	14	18	0

Washoe County Total: 5,256 | Influenza type A: 3,192 | Influenza type B: 1,670 | Influenza unk type: 394

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 12) March 18 - March 24, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - March 24, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	90	9	10.0	3	33.3	0	0.0	0	0.0	5256	506	9.6	210	41.5	80	1.5	23	0.4		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	7	2	0.4	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	79	12	2.4	4	33.3	3	3.8	0	0.0		
Influenza A (not subtyped)	1	1	11.1	1	100.0	0	#DIV/0!	0	#DIV/0!	775	266	52.6	122	45.9	47	58.8	12	52.2		
Influenza A (RIDT*)	15	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	2331	111	21.9	43	38.7	15	18.8	5	21.7		
Influenza B (RIDT*)	54	5	55.6	1	20.0	0	#DIV/0!	0	#DIV/0!	1277	22	4.3	6	27.3	0	0.0	1	4.3		
Influenza B (non-RIDT**)	14	3	33.3	1	33.3	0	#DIV/0!	0	#DIV/0!	393	92	18.2	35	38.0	15	18.8	5	21.7		
Influenza (unknown type, RIDT*)	6	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	394	1	0.2	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

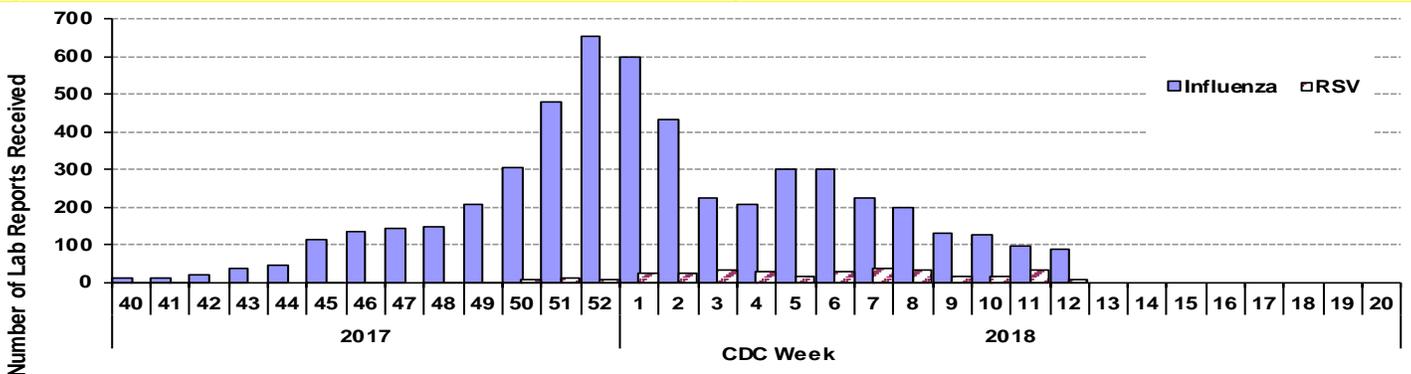


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

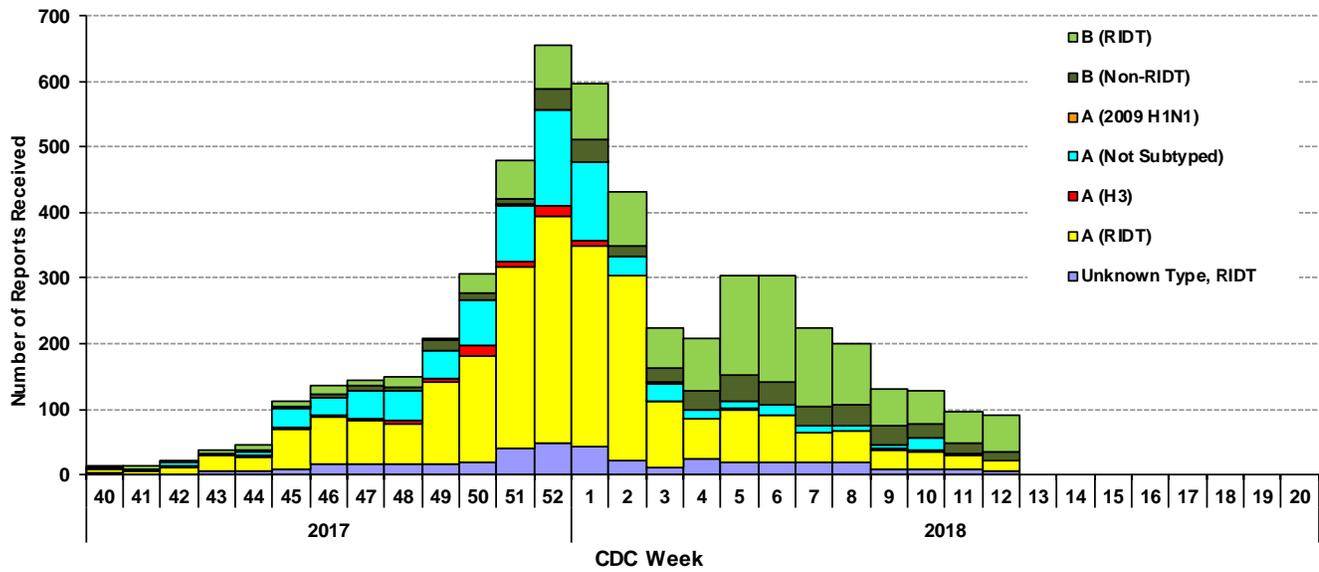


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

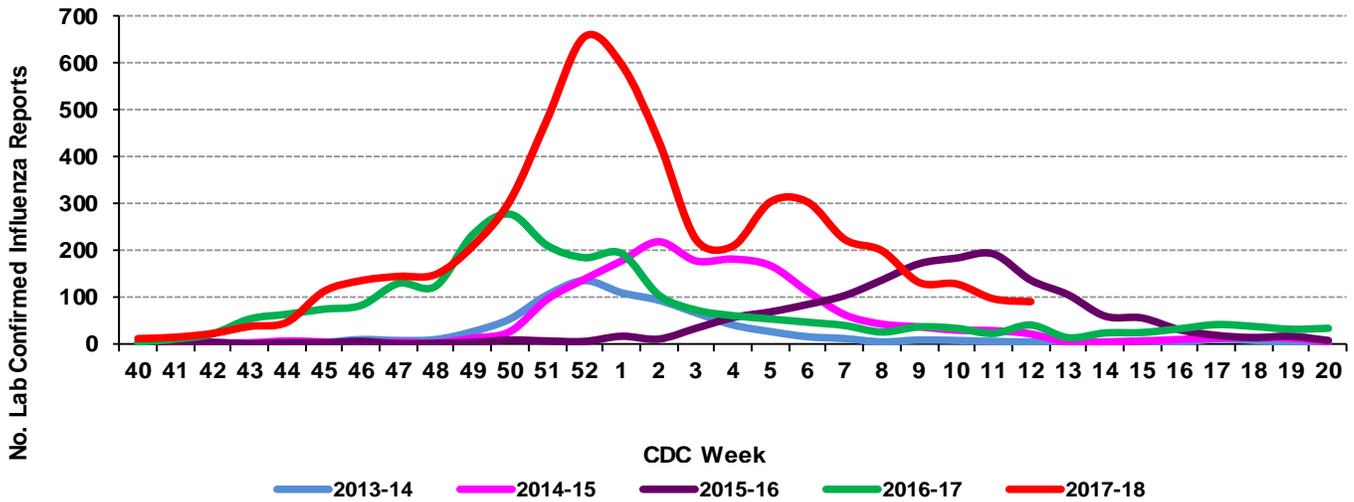
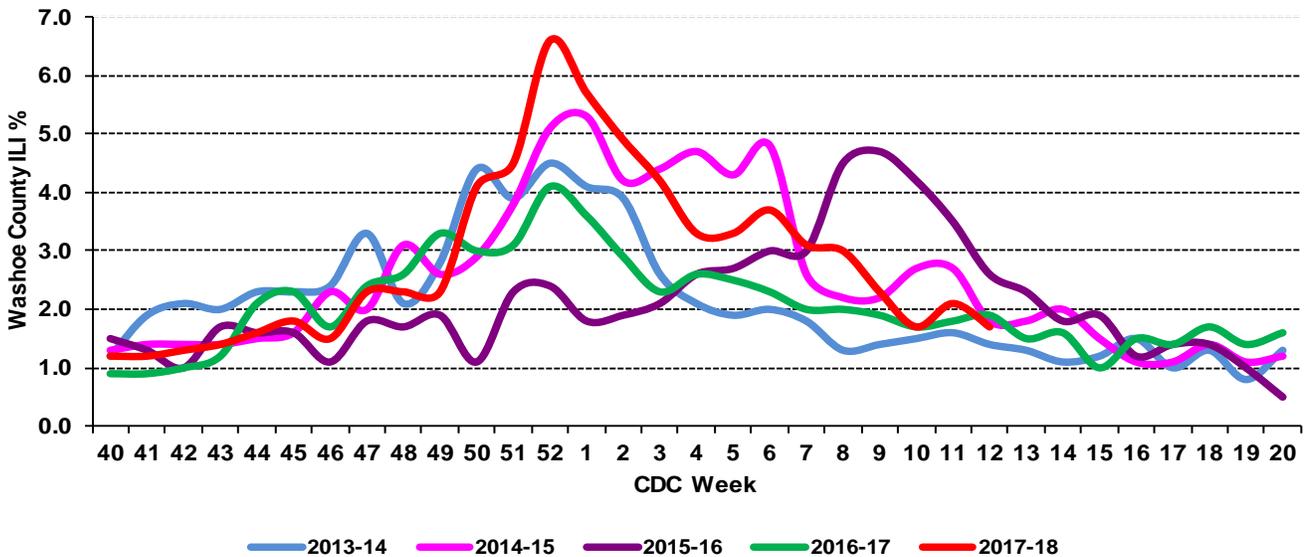
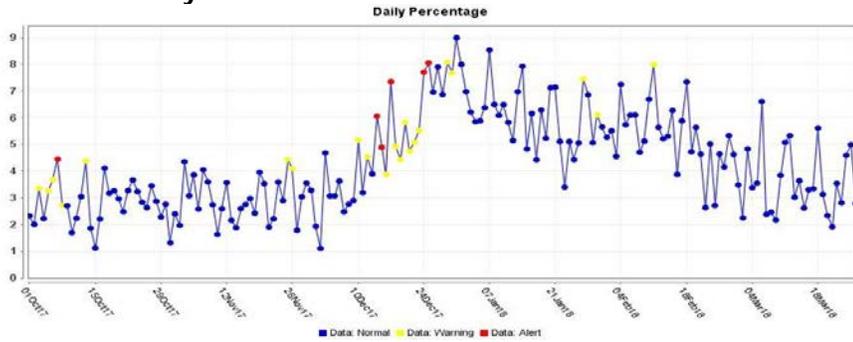


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

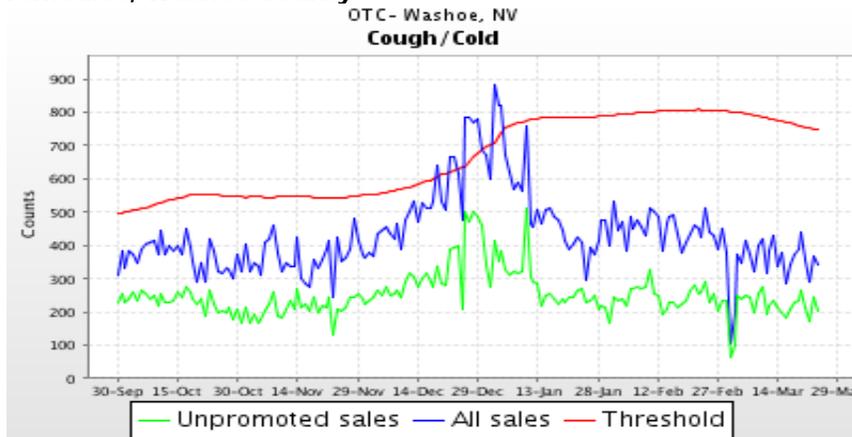


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

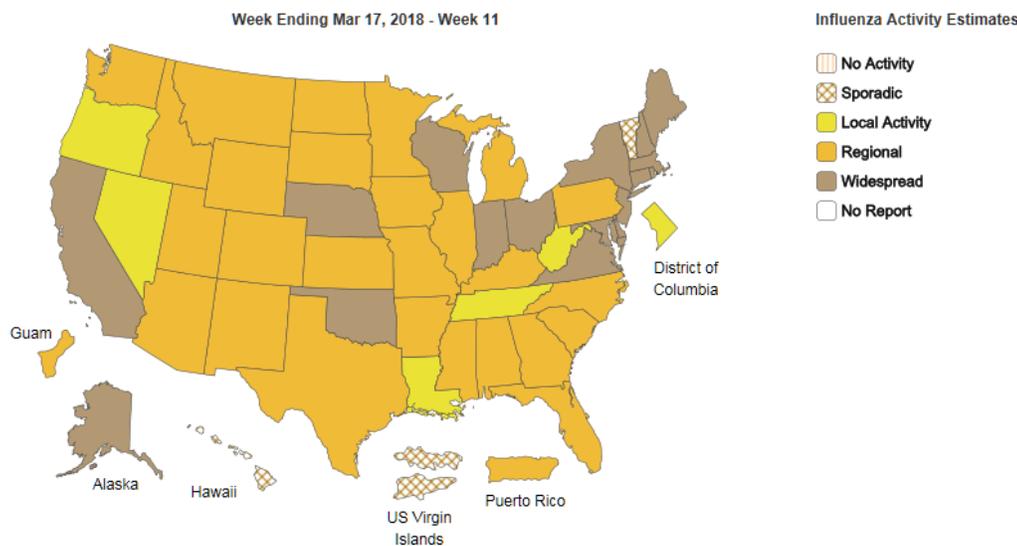


Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor
Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 11, the following influenza activity was reported:

- Widespread influenza activity was reported by 17 states (Alaska, California, Connecticut, Delaware, Indiana, Maine, Maryland, Massachusetts, Nebraska, New Hampshire, New Jersey, New York, Ohio, Oklahoma, Rhode Island, Virginia, and Wisconsin).
- Regional influenza activity was reported by Guam, Puerto Rico and 26 states (Alabama, Arizona, Arkansas, Colorado, Florida, Georgia, Idaho, Illinois, Iowa, Kansas, Kentucky, Michigan, Minnesota, Mississippi, Missouri, Montana, New Mexico, North Carolina, North Dakota, Pennsylvania, South Carolina, South Dakota, Texas, Utah, Washington, and Wyoming).
- **Local** influenza activity was reported by the District of Columbia and five states (Louisiana, **Nevada**, Oregon, Tennessee, and West Virginia).
- Sporadic influenza activity was reported by the U.S. Virgin Islands and two states (Hawaii and Vermont).

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #14: April 1, 2018 – April 7, 2018

Date: Friday, April 13, 2018

To: Participating Health Care Providers

From: **Influenza Surveillance Coordinator:**
Kerry Chalkley, MPH, Epidemiologist
Division of Epidemiology & Public Health Preparedness (EPHP)
775-328-2447 kchalkley@washoecounty.us

Note: Due to limited resources during the week of March 25 – 31 a Week 13 flu report was not published. If you need data for Week 13 not otherwise presented in this report please contact Kerry Chalkley at 328-2447.

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 97 patients with influenza-like-illness (ILI) for week ending April 7, 2018 (week 14). The percentage of persons seen with ILI by the twelve providers was 1.4% (97/6789) which is below the regional baseline of 2.4%. During week 13, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.7%. Nationwide during week 13 the percentage of visits to sentinel providers due to ILI was 2.4% which is above the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 1.1% to 2.9%. Seven regions (Regions 1, 3, 4, 5, 7, 9, and 10) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

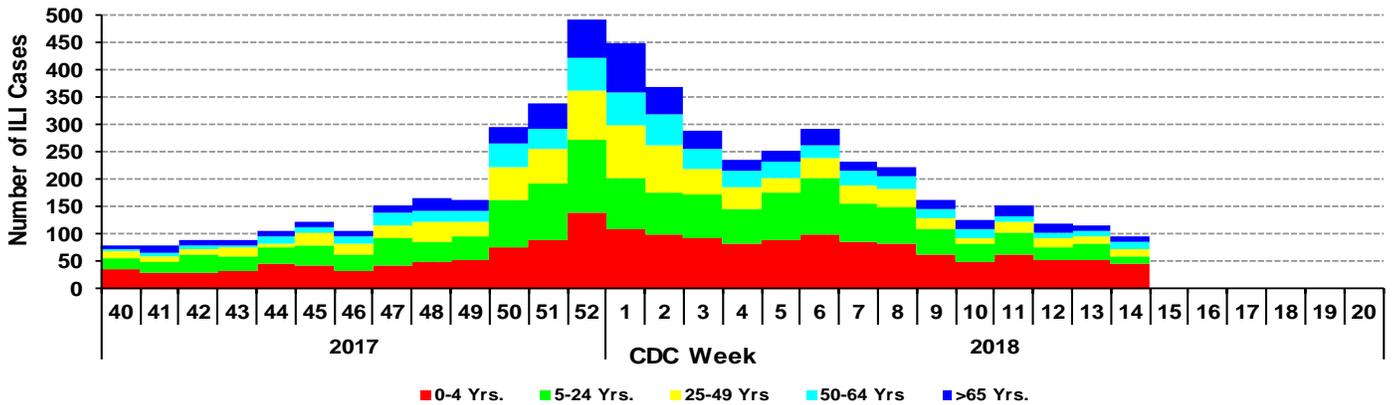
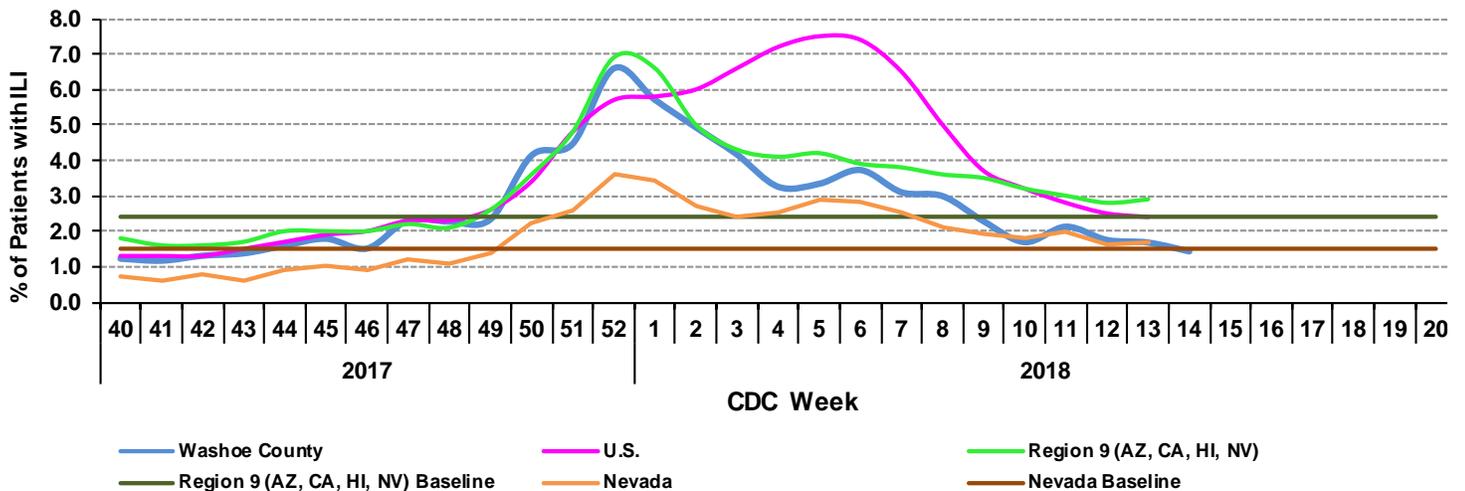


Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.

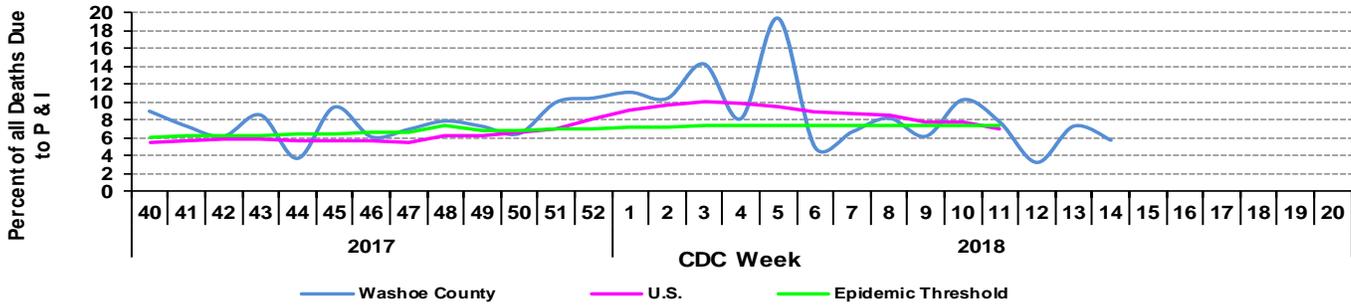


Data source for U.S., Region 9, and Nevada ILI activity and baselines: CDC Flu View Weekly Influenza Surveillance Report, <https://www.cdc.gov/flu/weekly/index.htm>.

Pneumonia & Influenza Mortality:

Five death certificates were received for week 14 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 14 was 87. This reflects a P&I ratio of 5.7% which is below the epidemic threshold set by CDC for week 11 at 7.3%. The national P&I for week 11 was below the epidemic threshold at 7.1%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 226. This reflects an overall P&I ratio of 8.3% (226/2707).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
12	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
61	27	15	19	0

Washoe County Total: 5,354 | Influenza type A: 3,213 | Influenza type B: 1,738 | Influenza unk type: 403

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 14) April 1 - April 7, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - April 7, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	56	8.9	5	8.9	3	60.0	0	0.0	0	0.0	5354	519	9.7	217	41.8	82	1.5	23	0.4	
Influenza A (2009 H1N1)	0	0.0	0	0.0	#DIV/0!	#DIV/0!	0	#DIV/0!	0	#DIV/0!	8	3	0.6	0	0.0	0	0.0	0	0.0	
Influenza A (seasonal H3)	0	0.0	0	0.0	#DIV/0!	#DIV/0!	0	#DIV/0!	0	#DIV/0!	81	12	2.3	4	33.3	3	3.7	0	0.0	
Influenza A (not subtyped)	2	20.0	1	100.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	783	269	51.8	124	46.1	47	57.3	12	52.2	
Influenza A (RIDT*)	10	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	2341	111	21.4	43	38.7	15	18.3	5	21.7	
Influenza B (RIDT*)	29	20.0	1	100.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1319	23	4.4	7	30.4	0	0.0	1	4.3	
Influenza B (non-RIDT**)	8	60.0	3	60.0	1	33.3	0	#DIV/0!	0	#DIV/0!	419	100	19.3	39	39.0	17	20.7	5	21.7	
Influenza (unknown type, RIDT*)	7	0.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	403	1	0.2	0	0.0	0	0.0	0	0.0	

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

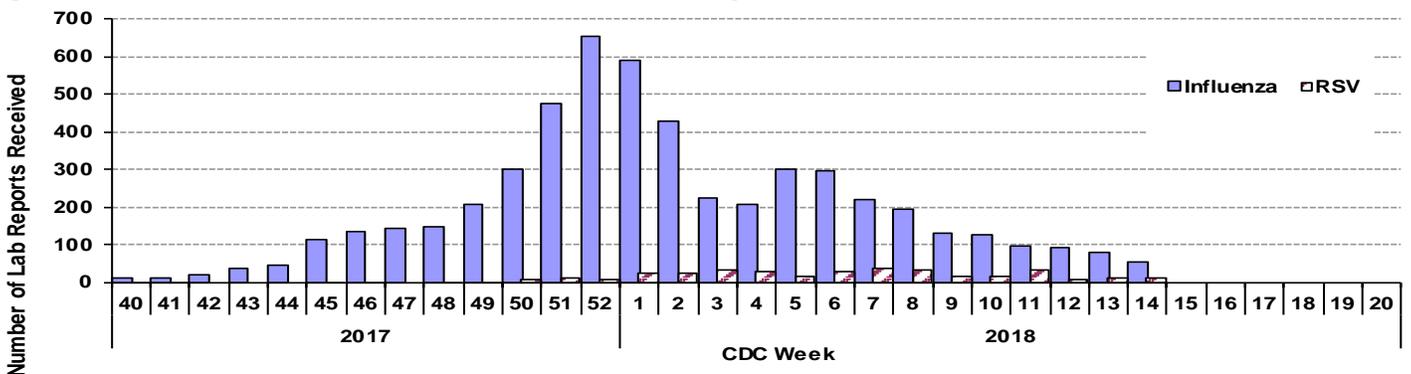


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

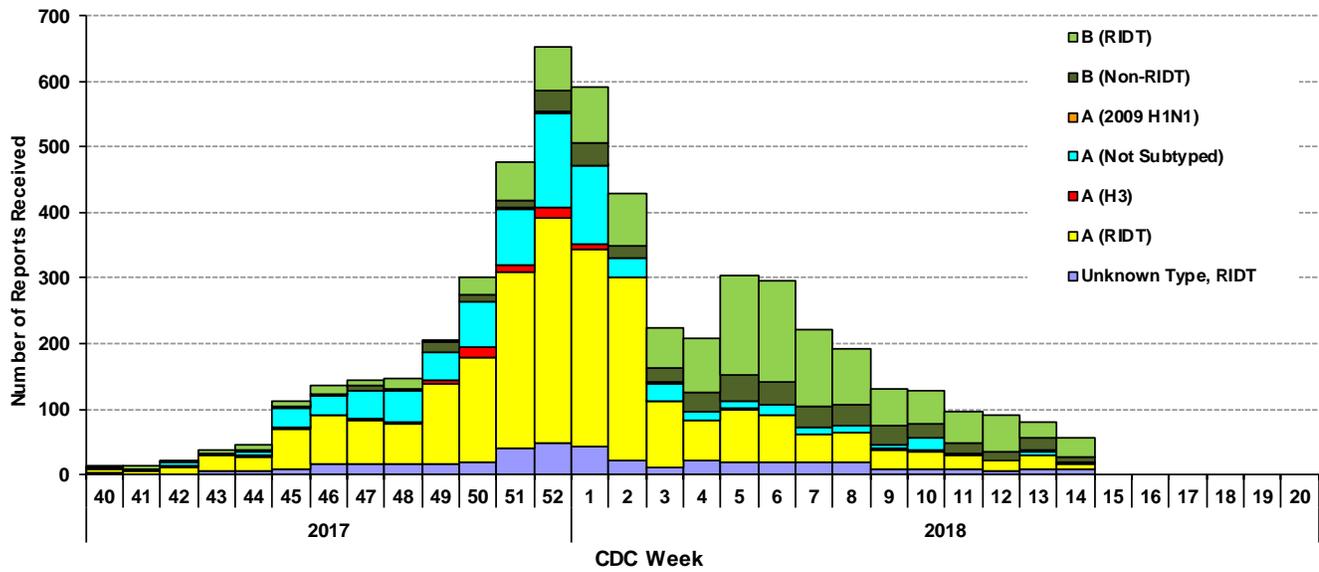


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

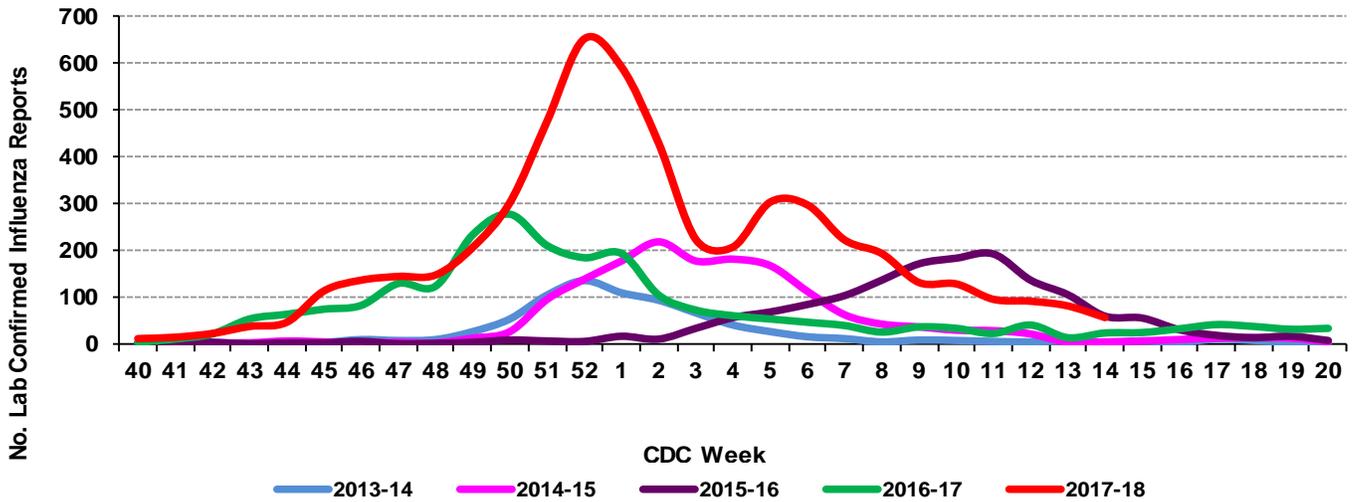
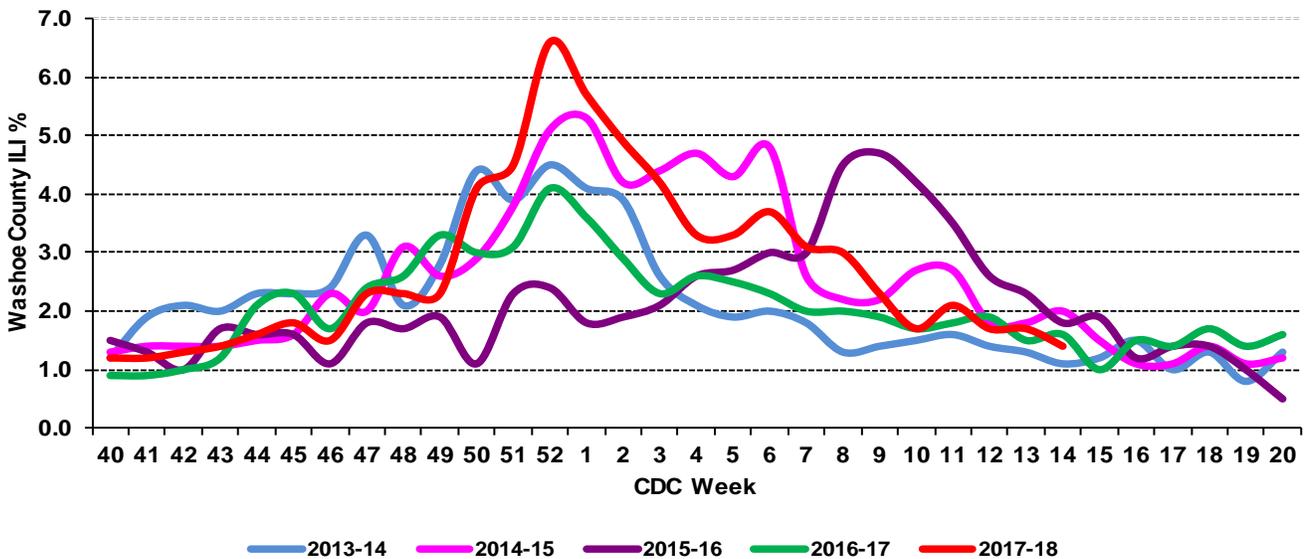


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

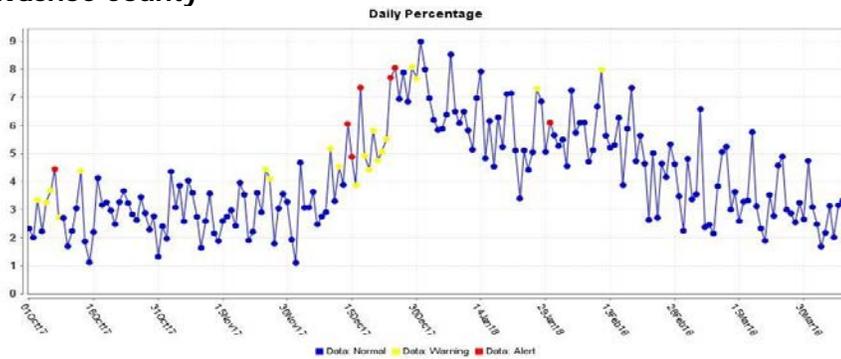


Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

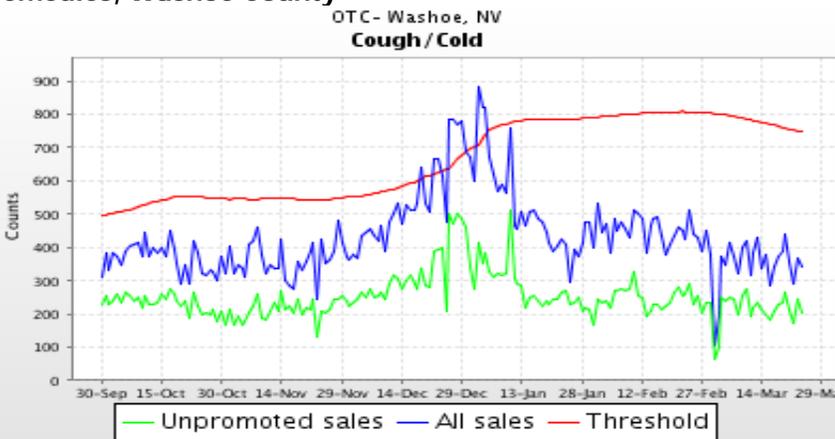
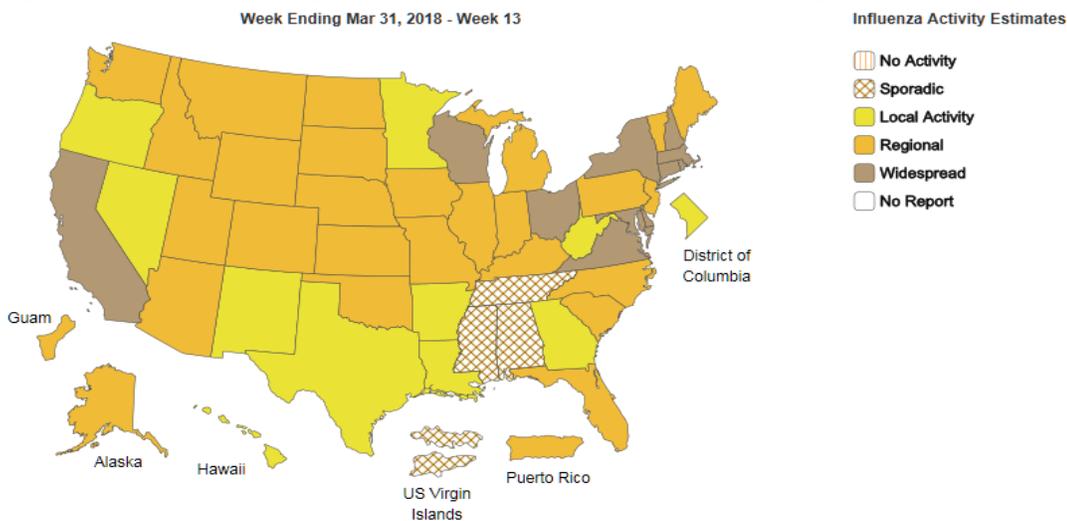


Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 13, the following influenza activity was reported:

- Widespread influenza activity was reported by 11 states (California, Connecticut, Delaware, Maryland, Massachusetts, New Hampshire, New York, Ohio, Rhode Island, Virginia, and Wisconsin).
- Regional influenza activity was reported by Guam, Puerto Rico and 26 states (Alaska, Arizona, Colorado, Florida, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Maine, Michigan, Missouri, Montana, Nebraska, New Jersey, North Carolina, North Dakota, Oklahoma, Pennsylvania, South Carolina, South Dakota, Utah, Vermont, Washington, and Wyoming).
- **Local** influenza activity was reported by the District of Columbia and 10 states (Arkansas, Georgia, Hawaii, Louisiana, Minnesota, **Nevada**, New Mexico, Oregon, Texas, and West Virginia).
- Sporadic influenza activity was reported by the U.S. Virgin Islands and three states (Alabama, Tennessee, and Mississippi).

Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor
Data coverage in Washoe County: ~40%)

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #15: April 8, 2018 – April 14, 2018

Date: Thursday, April 19, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 115 patients with influenza-like-illness (ILI) for week ending April 14, 2018 (week 15). The percentage of persons seen with ILI by the twelve providers was 1.6% (115/7059) which is below the regional baseline of 2.4%. During week 14, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.4%. Nationwide during week 14 the percentage of visits to sentinel providers due to ILI was 2.1% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 1.1% to 3.1%. Six regions (Regions 1, 2, 3, 5, 9, and 10) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

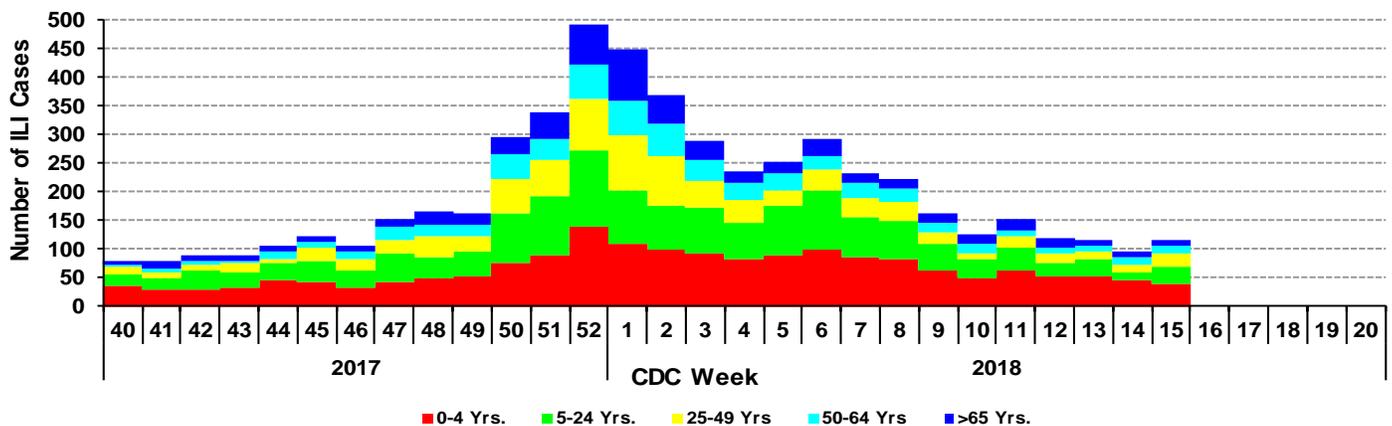
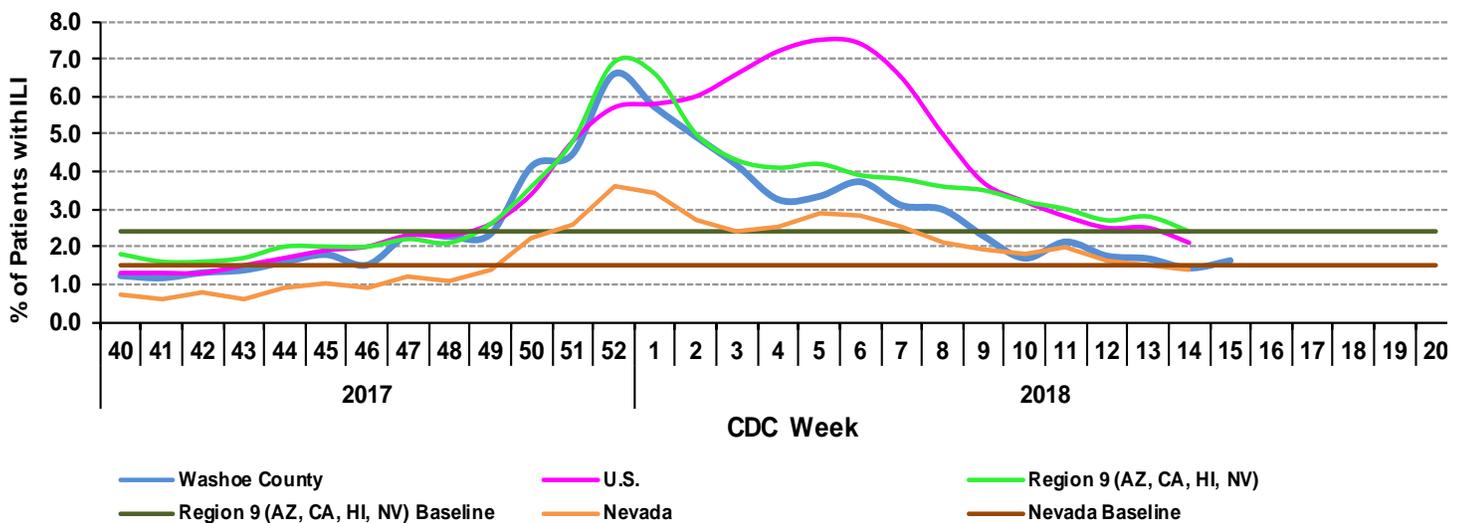


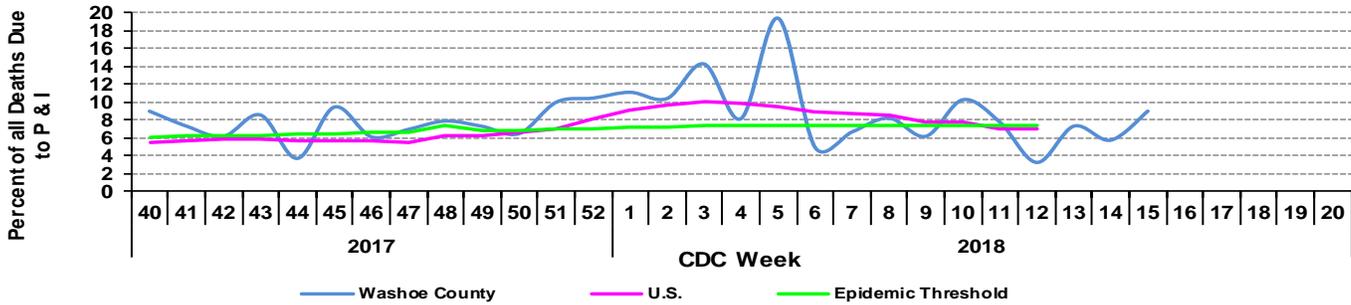
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Nine death certificates were received for week 15 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 15 was 100. This reflects a P&I ratio of 9.0% which is above the epidemic threshold set by CDC for week 12 at 7.3%. The national P&I for week 12 was below the epidemic threshold at 7.0%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 235. This reflects an overall P&I ratio of 8.4% (235/2807).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
15	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
61	27	15	19	0

Washoe County Total: 5,401 | Influenza type A: 3,222 | Influenza type B: 1,769 | Influenza unk type: 410

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 15) April 8 - April 14, 2018										Cumulative for 2017-2018 Influenza Season October 1, 2017 - April 14, 2018									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	43	6	14.0	4	66.7	1	2.3	0	0.0	5401	527	9.8	218	41.4	84	1.6	25	0.5		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	8	3	0.6	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	81	12	2.3	4	33.3	3	3.6	0	0.0		
Influenza A (not subtyped)	2	1	16.7	1	100.0	1	100.0	0	#DIV/0!	785	270	51.2	125	46.3	48	57.1	12	48.0		
Influenza A (RIDT*)	6	1	16.7	1	100.0	0	0.0	0	#DIV/0!	2348	113	21.4	43	38.1	16	19.0	5	20.0		
Influenza B (RIDT*)	21	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	1342	23	4.4	7	30.4	0	0.0	1	4.0		
Influenza B (non-RIDT**)	7	4	66.7	2	50.0	0	0.0	0	#DIV/0!	427	105	19.9	39	37.1	17	20.2	7	28.0		
Influenza (unknown type, RIDT*)	7	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	410	1	0.2	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

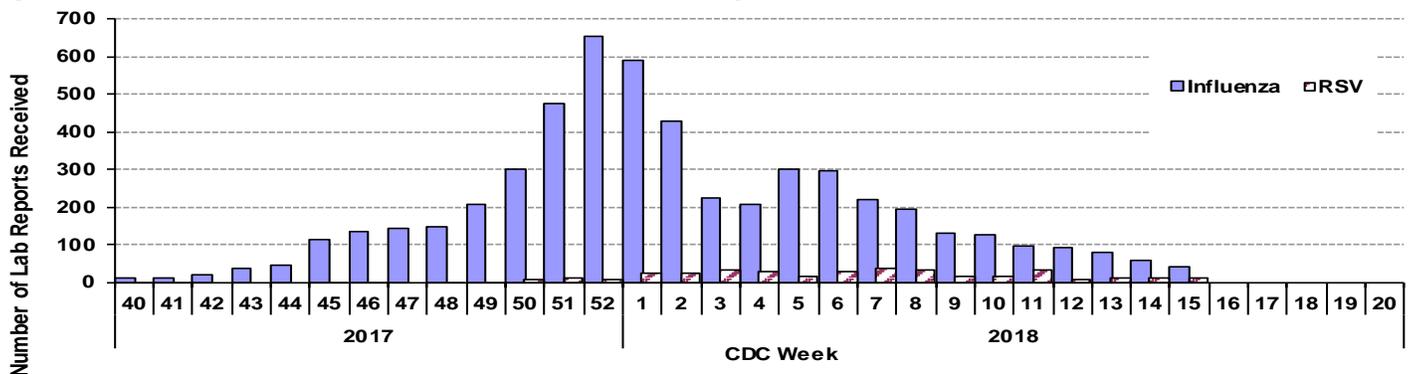


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

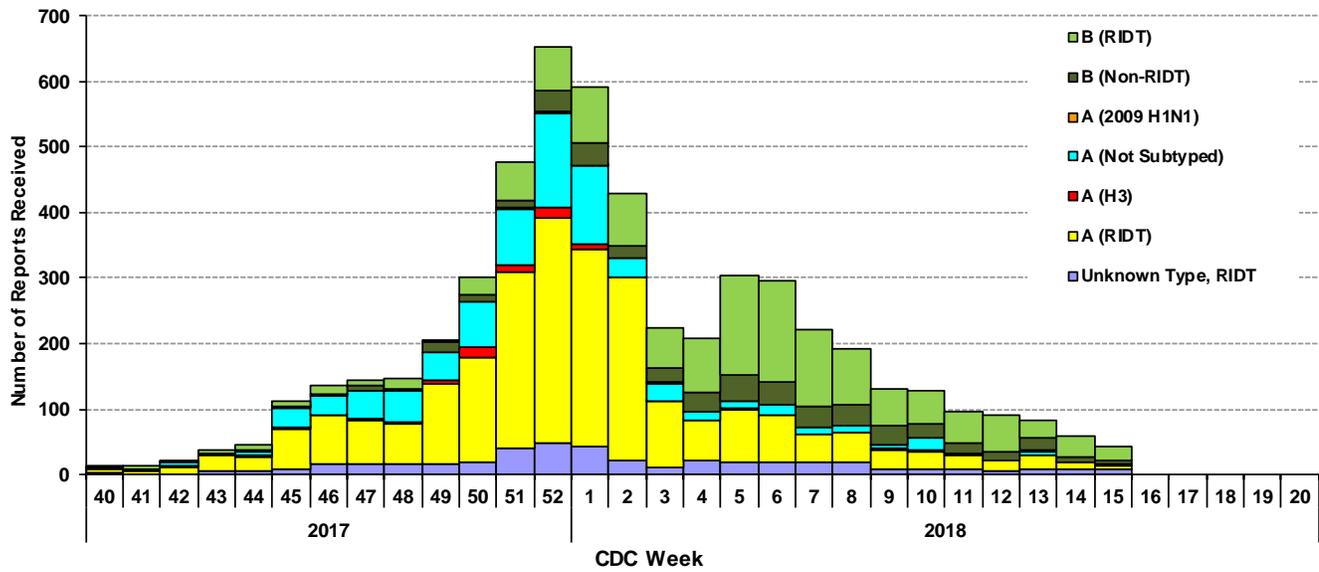


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

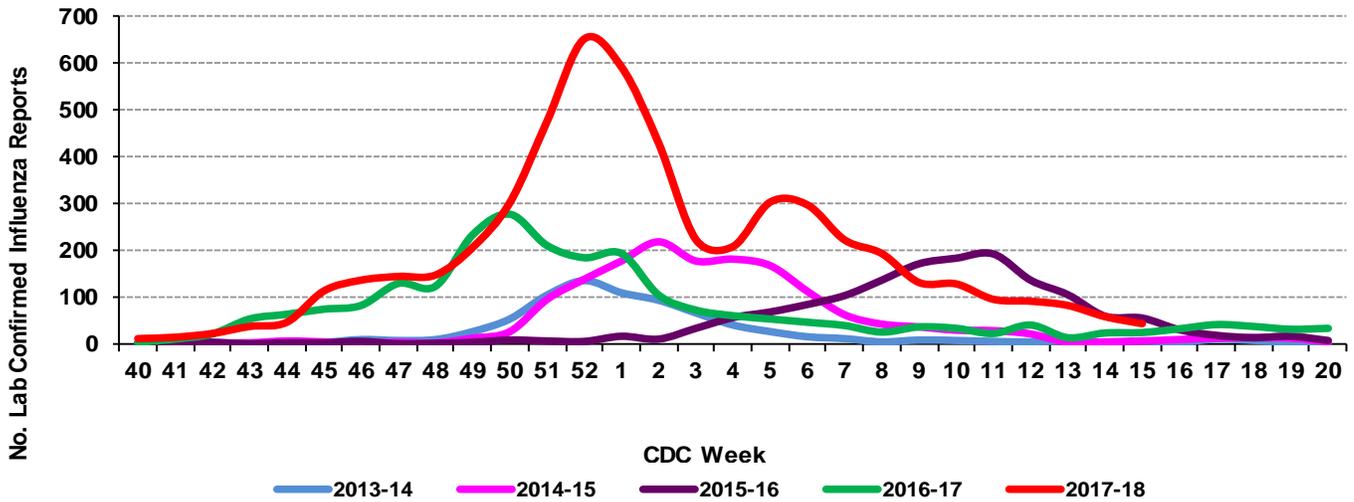
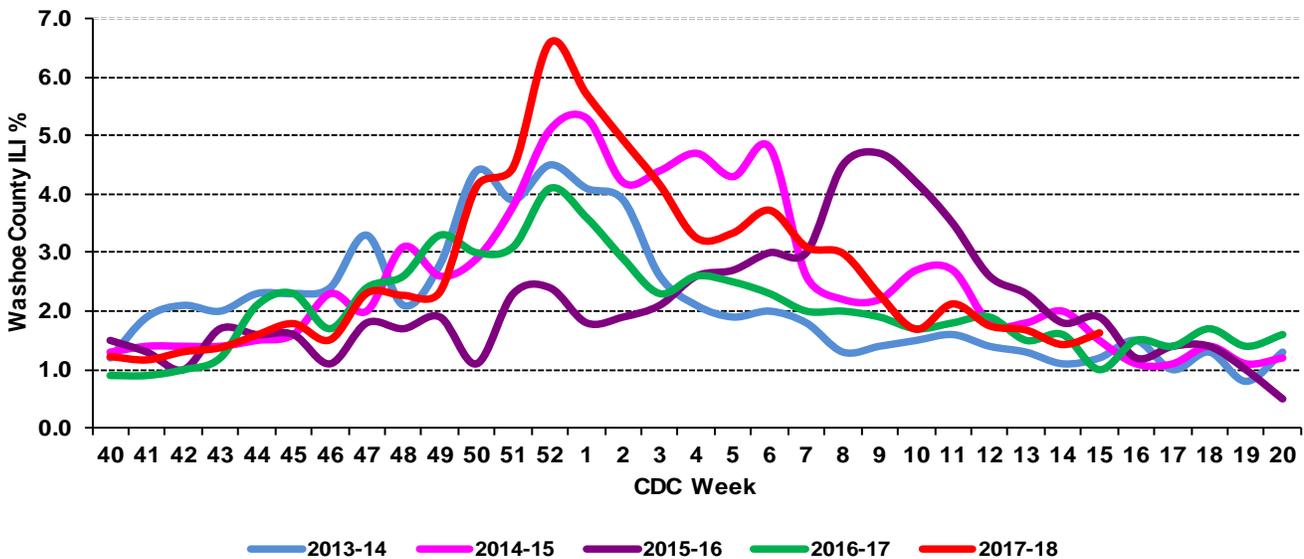


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

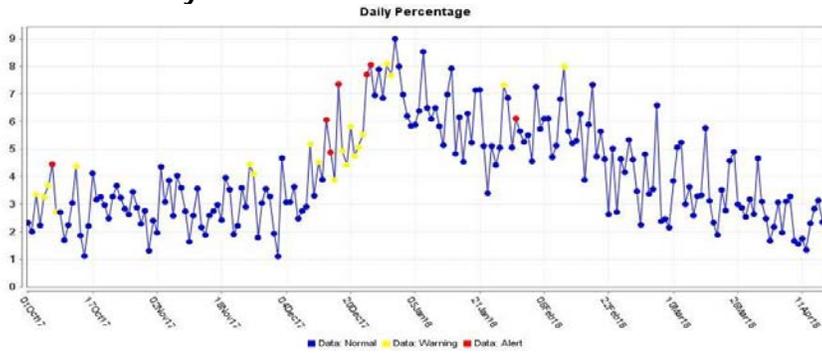


Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

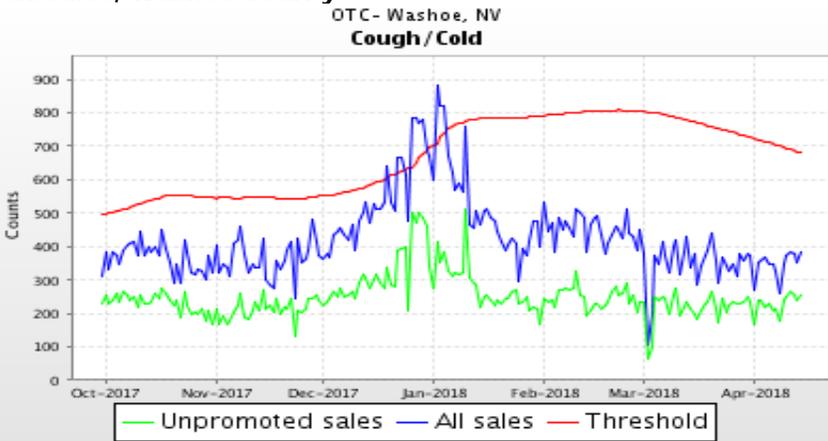
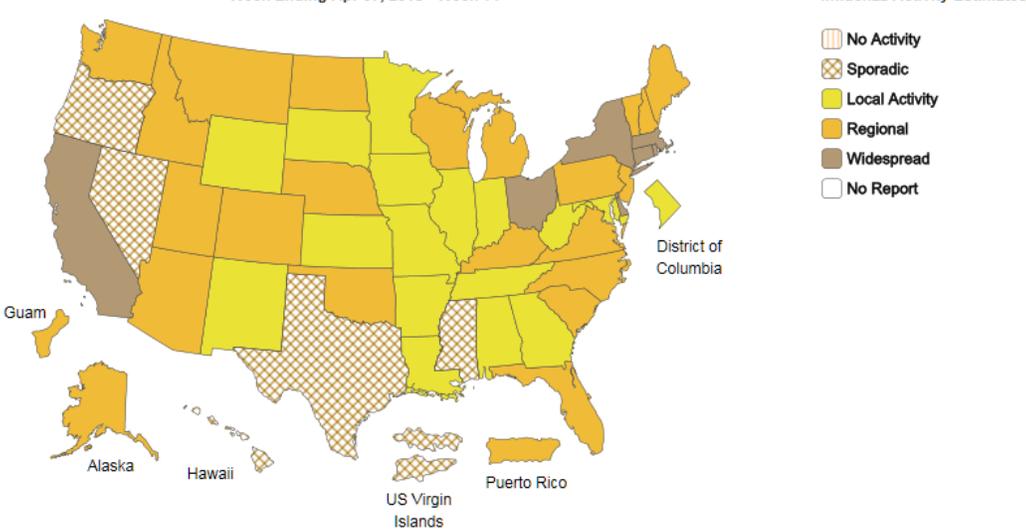


Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 14, the following influenza activity was reported:

- Widespread influenza activity was reported by seven states (California, Connecticut, Delaware, Massachusetts, New York, Ohio, and Rhode Island).
- Regional influenza activity was reported by Guam, Puerto Rico and 22 states (Alaska, Arizona, Colorado, Florida, Idaho, Kentucky, Maine, Michigan, Montana, Nebraska, New Hampshire, New Jersey, North Carolina, North Dakota, Oklahoma, Pennsylvania, South Carolina, Utah, Vermont, Virginia, Washington, and Wisconsin).
- Local influenza activity was reported by the District of Columbia and 16 states (Alabama, Arkansas, Georgia, Illinois, Indiana, Iowa, Kansas, Louisiana, Maryland, Minnesota, Missouri, New Mexico, South Dakota, Tennessee, West Virginia, and Wyoming).
- **Sporadic** influenza activity was reported by the U.S. Virgin Islands and five states (Hawaii, Mississippi, **Nevada**, Oregon, and Texas).

Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #16: April 15, 2018 – April 21, 2018

Date: Thursday, April 26, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 77 patients with influenza-like-illness (ILI) for week ending April 21, 2018 (week 16). The percentage of persons seen with ILI by the twelve providers was 1.2% (77/6684) which is below the regional baseline of 2.4%. During week 15, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.4%. Nationwide during week 15 the percentage of visits to sentinel providers due to ILI was 1.8% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.8% to 2.6%. One region (Region 1) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

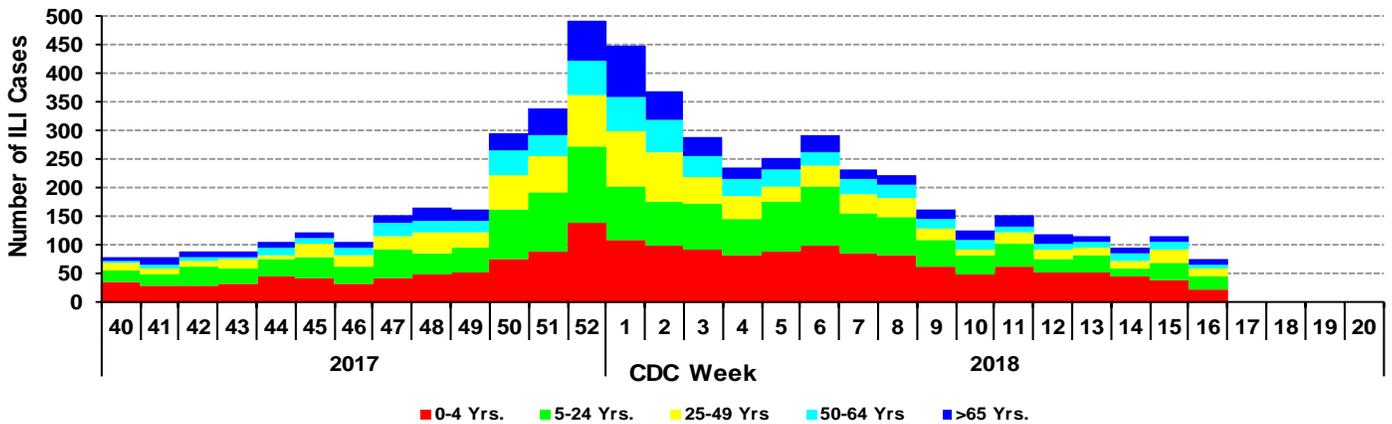
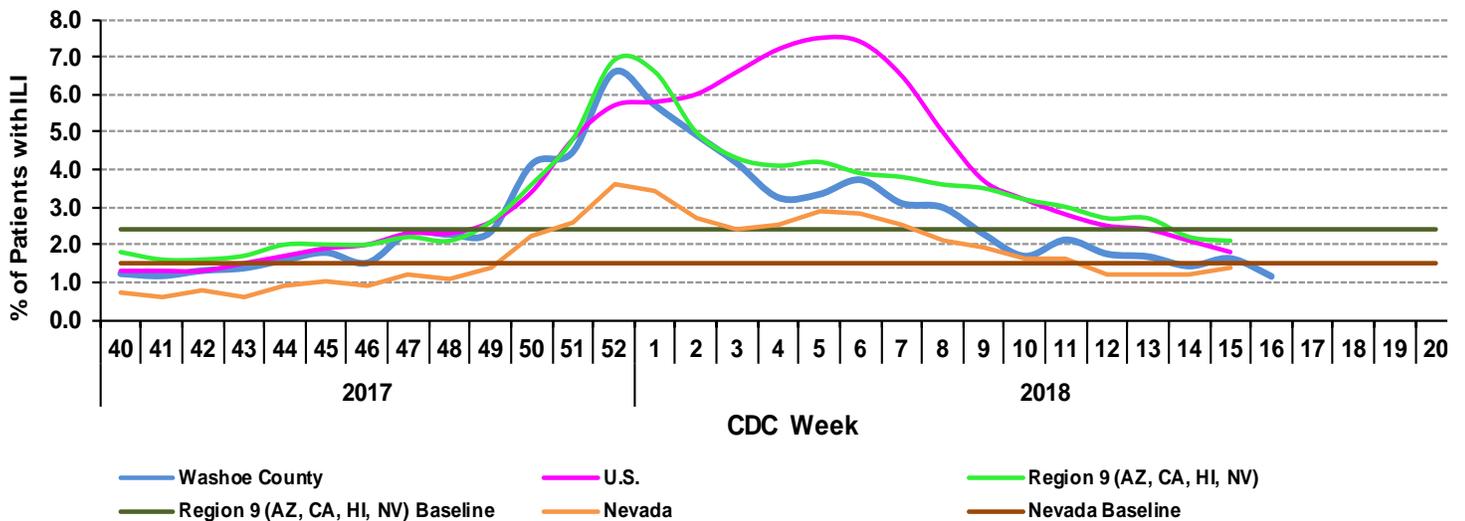


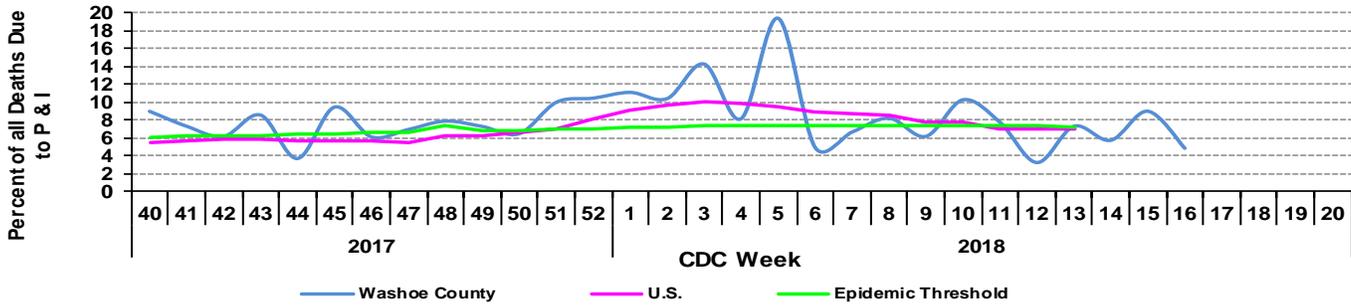
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Five death certificates were received for week 16 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 16 was 103. This reflects a P&I ratio of 4.9% which is below the epidemic threshold set by CDC for week 13 at 7.2%. The national P&I for week 13 was below the epidemic threshold at 7.1%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 240. This reflects an overall P&I ratio of 8.2% (240/2910).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
16	0	

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
62	27	16	19	0

Washoe County Total: 5,434 | Influenza type A: 3,231 | Influenza type B: 1,789 | Influenza unk type: 414

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 16) April 15 - April 21, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - April 21, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	32	2	6.3	0	0.0	0	0.0	0	0.0	0	0.0	5434	529	9.7	218	41.2	84	1.5	25	0.5
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	8	3	0.6	0	0.0	0	0.0	0	0.0
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	81	12	2.3	4	33.3	3	3.6	0	0.0
Influenza A (not subtyped)	1	1	50.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	786	271	51.2	125	46.1	48	57.1	12	48.0
Influenza A (RIDT*)	8	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	2356	113	21.4	43	38.1	16	19.0	5	20.0
Influenza B (RIDT*)	16	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1357	23	4.3	7	30.4	0	0.0	1	4.0
Influenza B (non-RIDT**)	3	1	50.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	432	106	20.0	39	36.8	17	20.2	7	28.0
Influenza (unknown type, RIDT*)	4	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	414	1	0.2	0	0.0	0	0.0	0	0.0

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

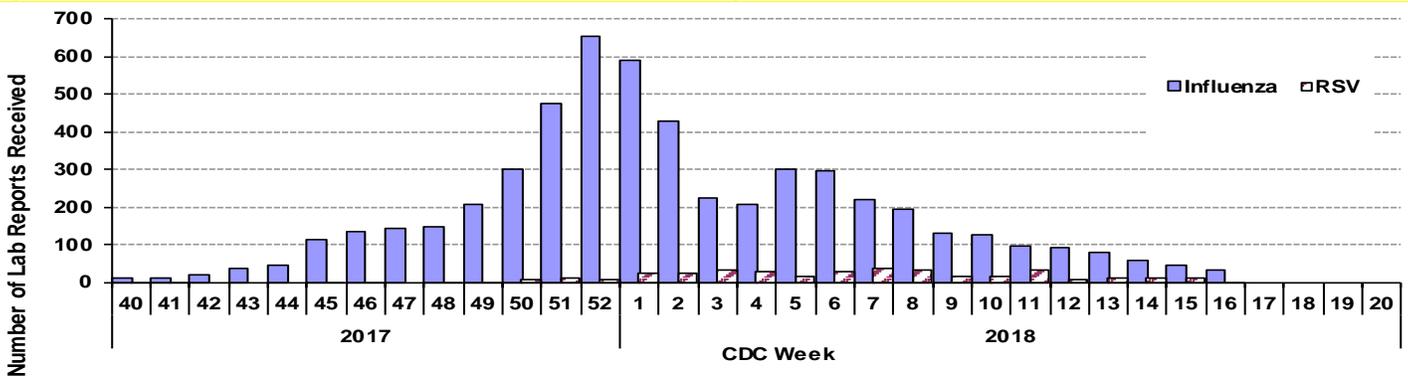


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

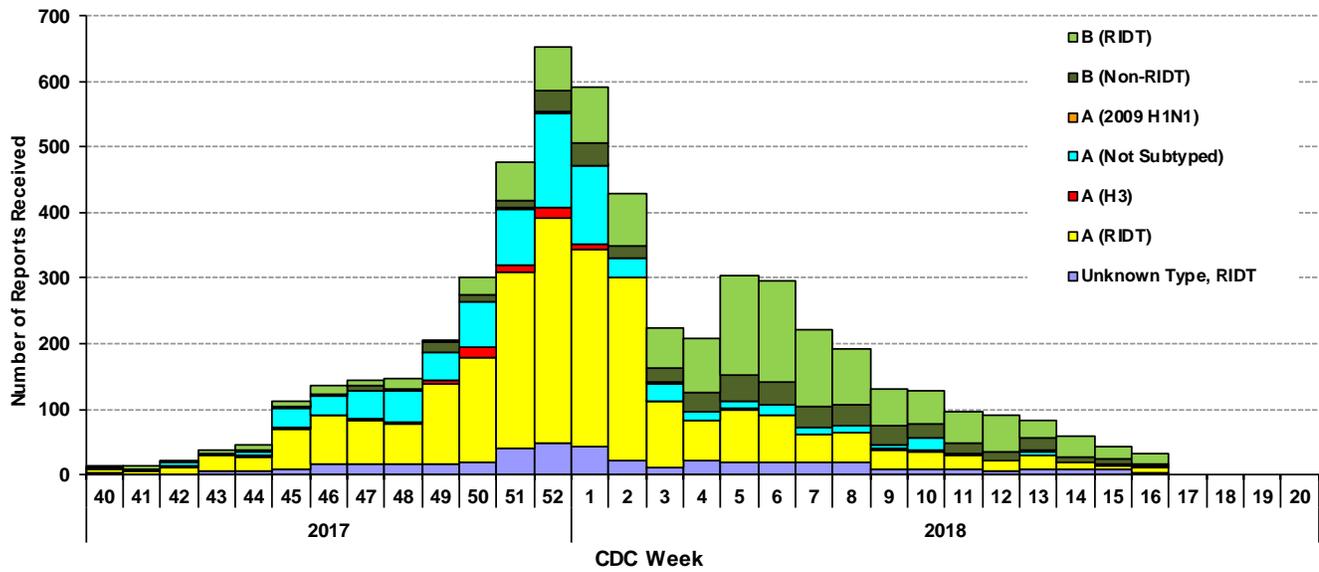


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

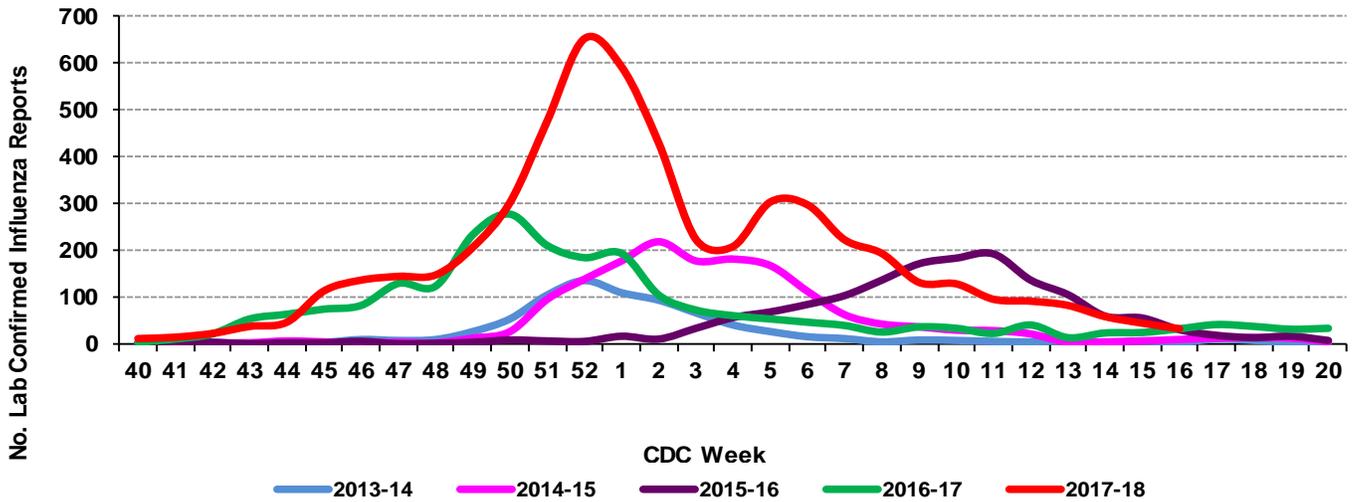
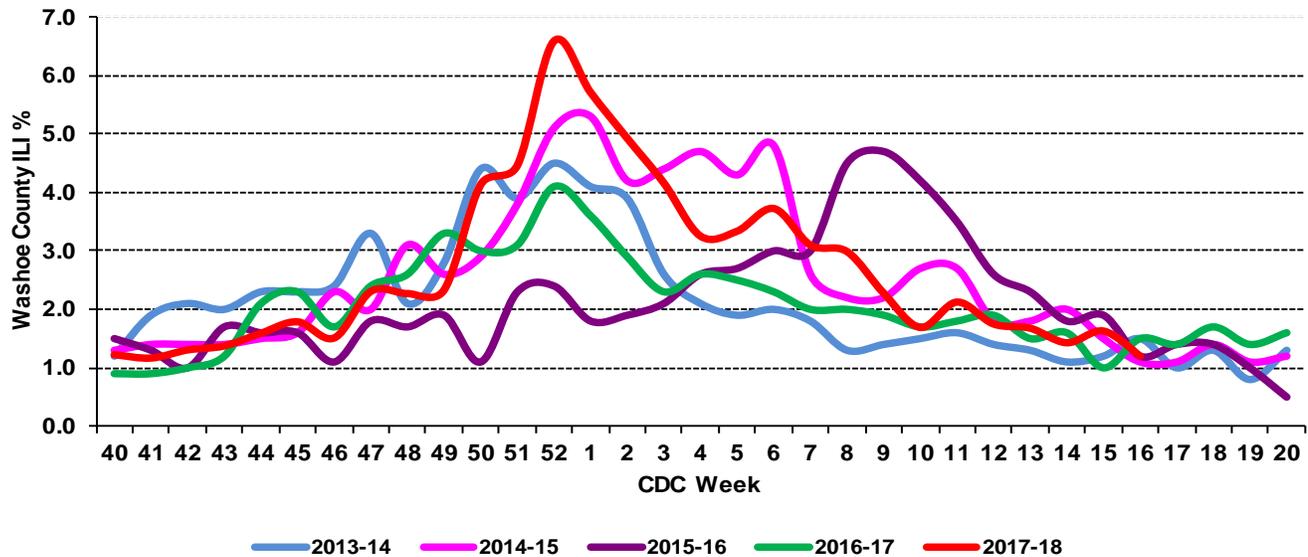


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

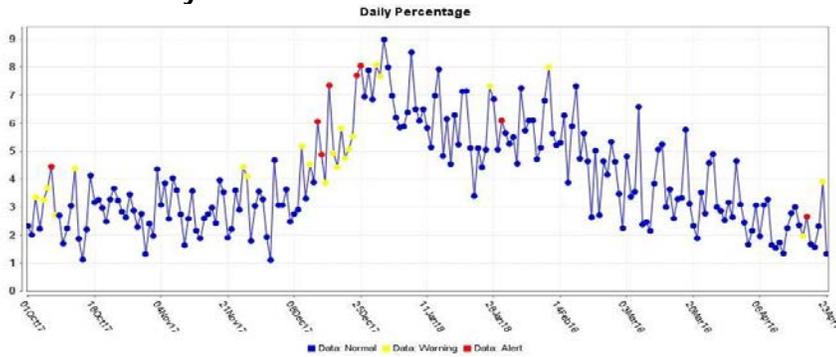


Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

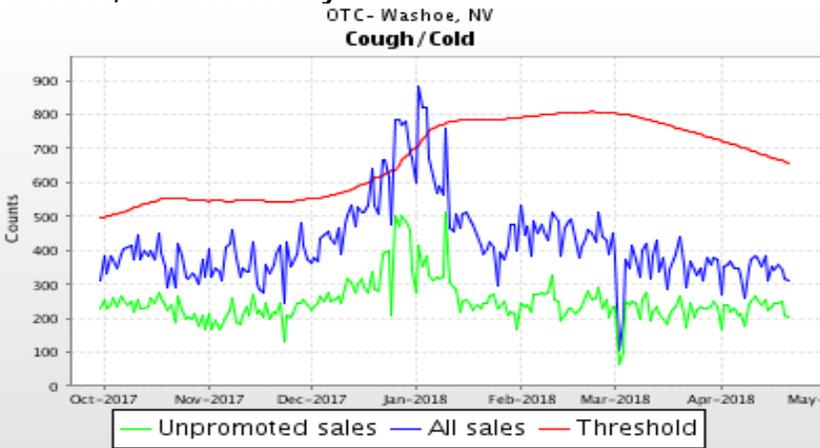
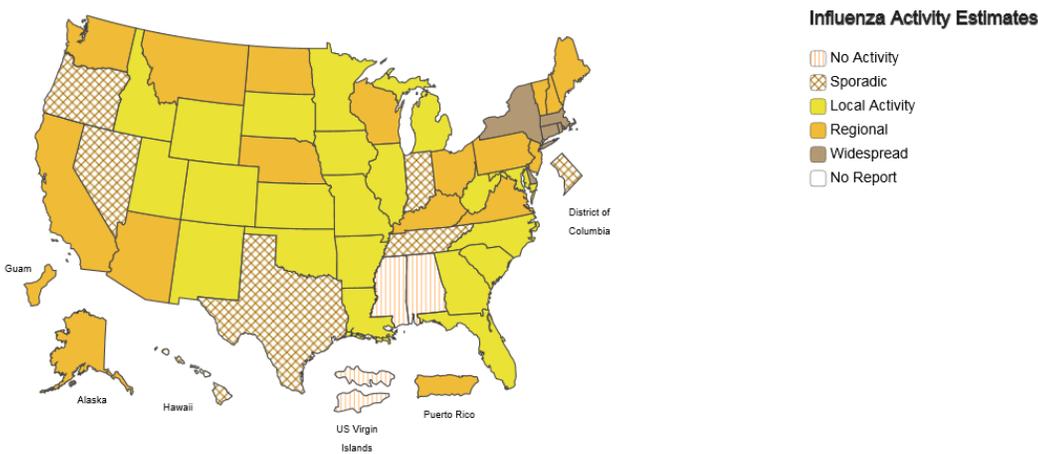


Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending Apr 14, 2018 - Week 15



During week 15, the following influenza activity was reported:

- Widespread influenza activity was reported by five states (Connecticut, Delaware, Massachusetts, New York, and Rhode Island).
- Regional influenza activity was reported by Guam, Puerto Rico and 16 states (Alaska, Arizona, California, Kentucky, Maine, Montana, Nebraska, New Hampshire, New Jersey, North Dakota, Ohio, Pennsylvania, Vermont, Virginia, Washington, and Wisconsin).
- Local influenza activity was reported by 21 states (Arkansas, Colorado, Florida, Georgia, Idaho, Illinois, Iowa, Kansas, Louisiana, Maryland, Michigan, Minnesota, Missouri, New Mexico, North Carolina, Oklahoma, South Carolina, South Dakota, Utah, West Virginia, and Wyoming).
- **Sporadic** influenza activity was reported by the District of Columbia and six states (Hawaii, Indiana, **Nevada**, Oregon, Tennessee, and Texas).
- No influenza activity was reported by the U.S. Virgin Islands and two states (Alabama and Mississippi).

Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #17: April 22, 2018 – April 28, 2018

Date: Wednesday, May 2, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPPH)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 111 patients with influenza-like-illness (ILI) for week ending April 28, 2018 (week 17). The percentage of persons seen with ILI by the twelve providers was 1.6% (111/7037) which is below the regional baseline of 2.4%. During week 16, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.1%. Nationwide during week 16 the percentage of visits to sentinel providers due to ILI was 1.7% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.8% to 2.6%. One region (Region 1) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

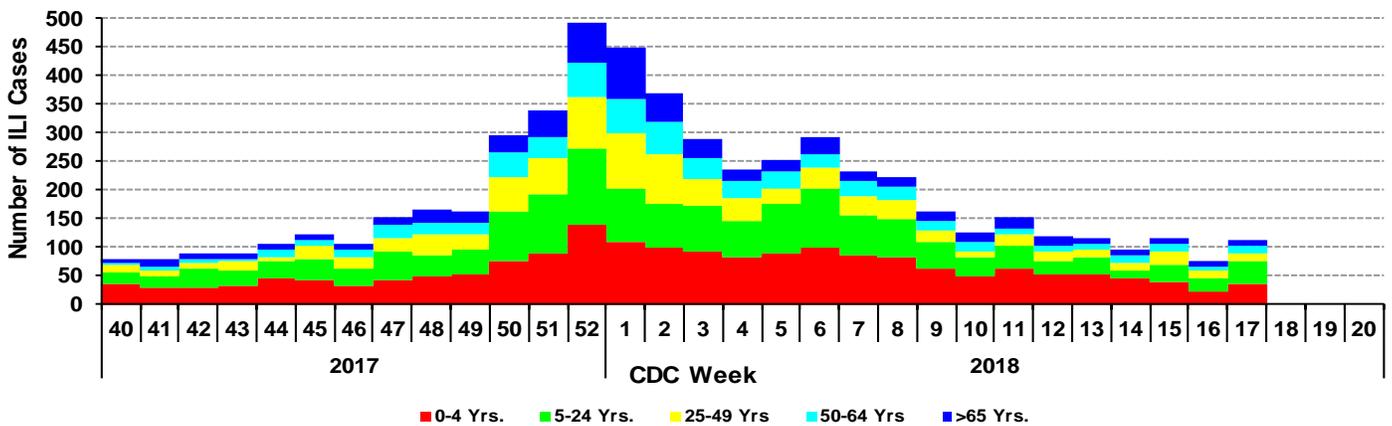
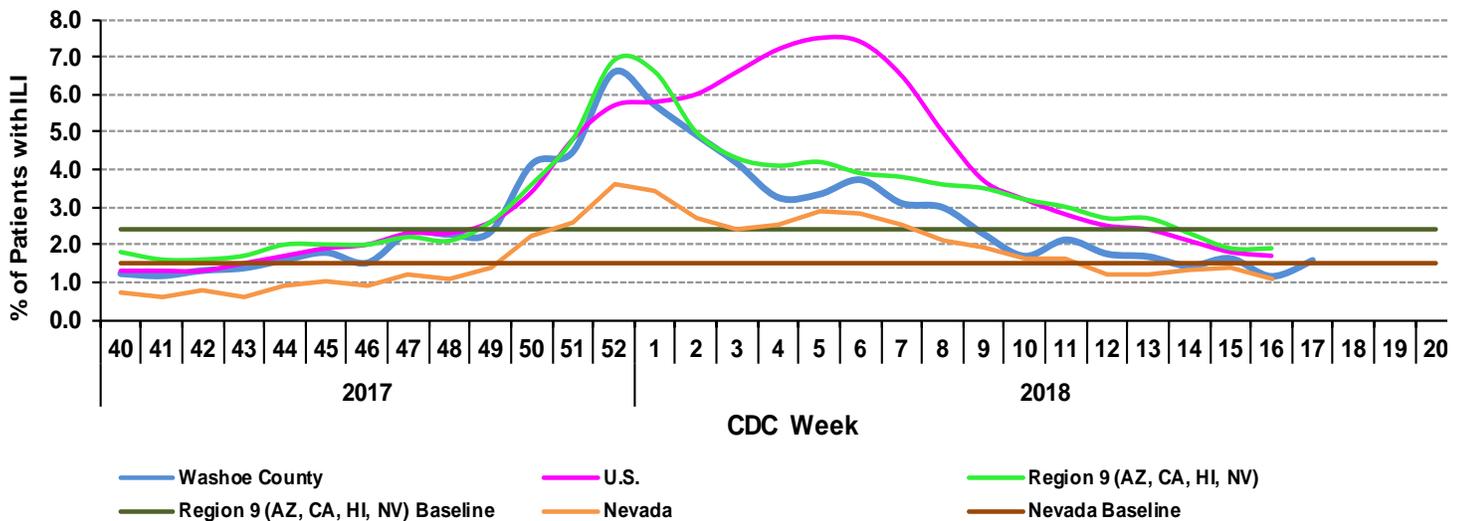


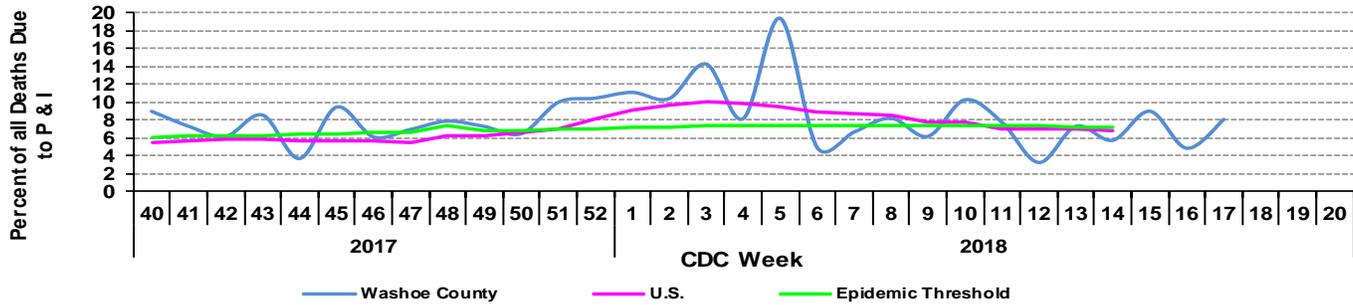
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Eight death certificates were received for week 17 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 17 was 99. This reflects a P&I ratio of 8.1% which is above the epidemic threshold set by CDC for week 14 at 7.2%. The national P&I for week 14 was below the epidemic threshold at 6.9%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 248. This reflects an overall P&I ratio of 8.2% (248/3009).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
17	0	

Total specimens	Influenza type A	Influenza type B	Negative	Pending
64	27	16	21	0

Washoe County Total: 5,465 | Influenza type A: 3,240 | Influenza type B: 1,807 | Influenza unk type: 418

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 17) April 22 - April 28, 2018										Cumulative for 2017-2018 Influenza Season October 1, 2017 - April 28, 2018									
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	31	5	16.1	1	20.0	2	6.5	0	0.0	5465	534	9.8	219	41.0	86	1.6	25	0.5		
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	8	3	0.6	0	0.0	0	0.0	0	0.0		
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	81	12	2.2	4	33.3	3	3.5	0	0.0		
Influenza A (not subtyped)	1	1	20.0	1	100.0	1	50.0	0	#DIV/0!	787	272	50.9	126	46.3	49	57.0	12	48.0		
Influenza A (RIDT*)	8	1	20.0	0	0.0	0	0.0	0	#DIV/0!	2364	114	21.3	43	37.7	16	18.6	5	20.0		
Influenza B (RIDT*)	13	1	20.0	0	0.0	0	0.0	0	#DIV/0!	1368	24	4.5	7	29.2	0	0.0	1	4.0		
Influenza B (non-RIDT**)	5	2	40.0	0	0.0	1	50.0	0	#DIV/0!	439	108	20.2	39	36.1	18	20.9	7	28.0		
Influenza (unknown type, RIDT*)	4	0	0.0	0	#DIV/0!	0	0.0	0	#DIV/0!	418	1	0.2	0	0.0	0	0.0	0	0.0		

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

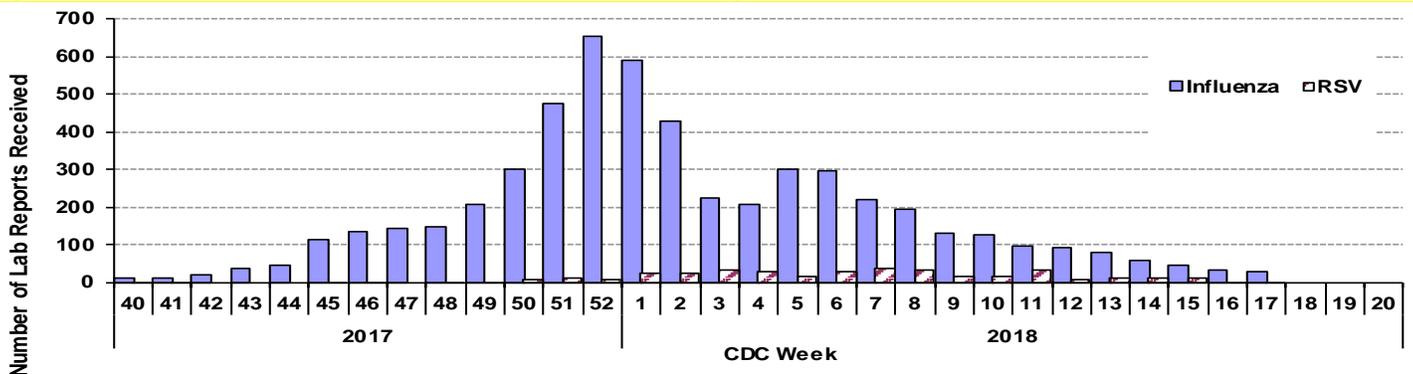


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

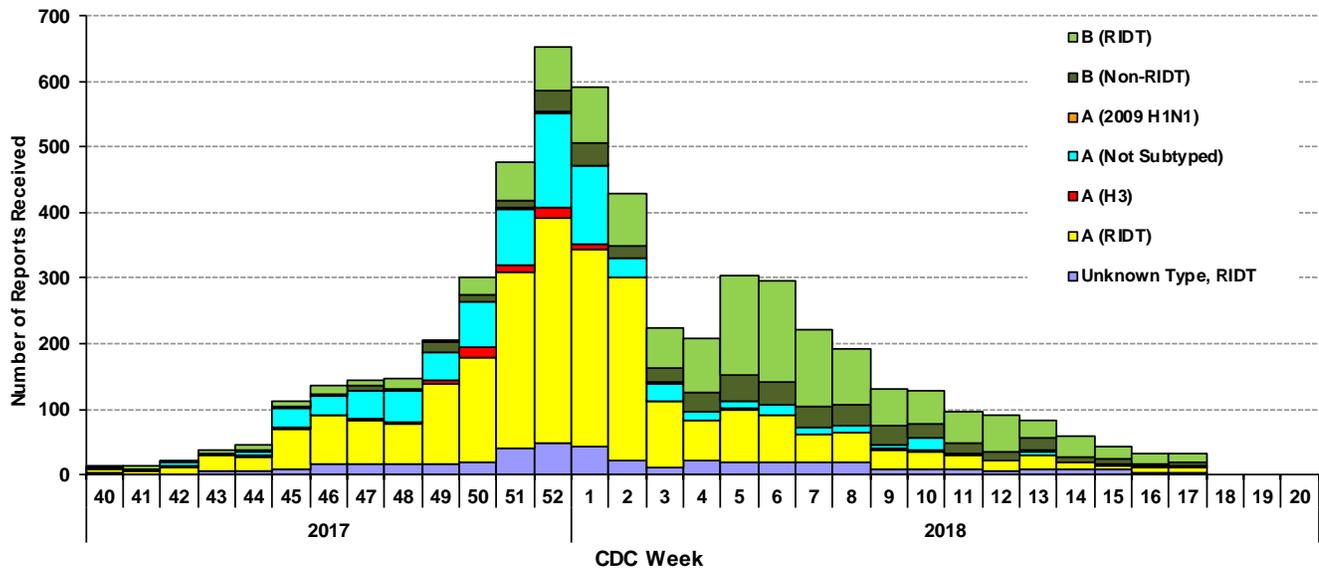


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

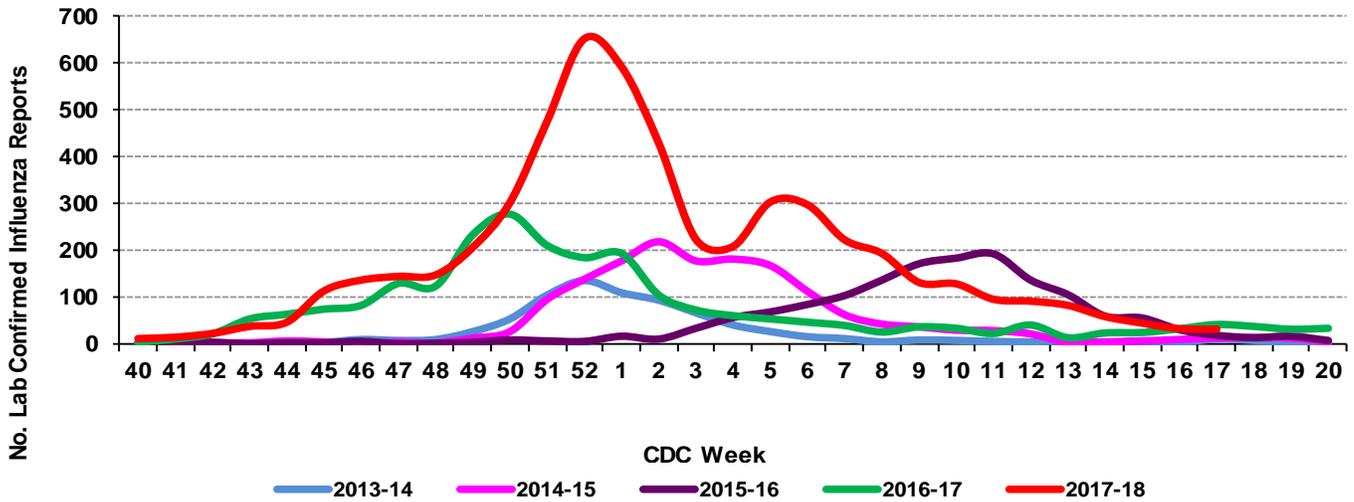
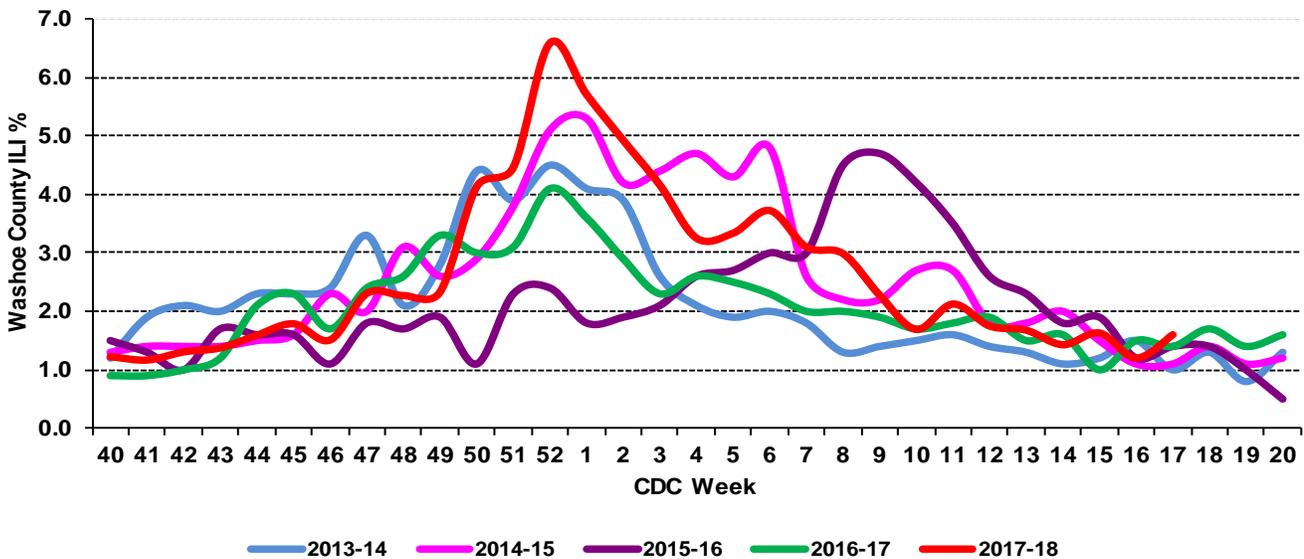
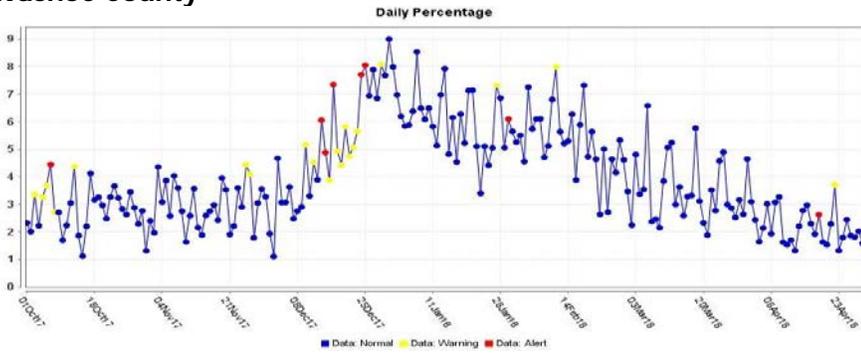


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

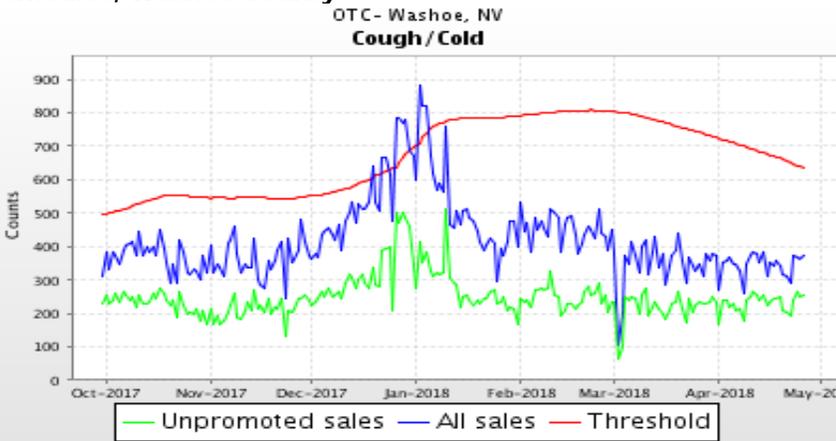


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

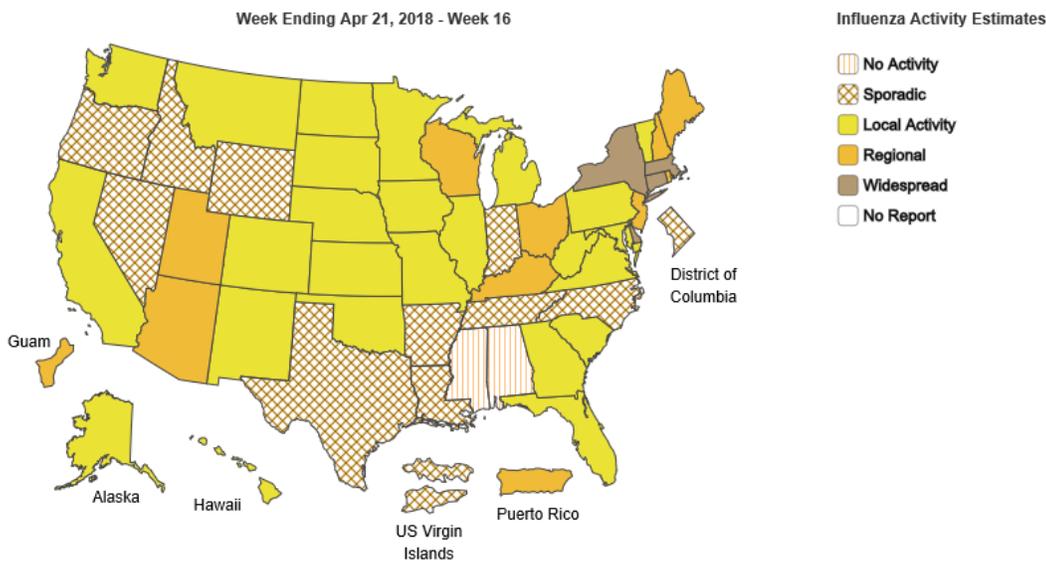


Over-the-Counter (OTC) sales for cough and/or cold remedies

include: Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week **16**, the following influenza activity was reported:

- Widespread influenza activity was reported by four states (Connecticut, Delaware, Massachusetts, and New York).
- Regional influenza activity was reported by Guam, Puerto Rico and nine states (Arizona, Kentucky, Maine, New Hampshire, New Jersey, Ohio, Rhode Island, Utah, and Wisconsin).
- Local influenza activity was reported by 25 states (Alaska, California, Colorado, Florida, Georgia, Hawaii, Illinois, Iowa, Kansas, Maryland, Michigan, Minnesota, Missouri, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, Pennsylvania, South Carolina, South Dakota, Vermont, Virginia, Washington, and West Virginia).
- **Sporadic** influenza activity was reported by the District of Columbia, the U.S. Virgin Islands and 10 states (Arkansas, Idaho, Indiana, Louisiana, **Nevada**, North Carolina, Oregon, Tennessee, Texas, and Wyoming).
- No influenza activity was reported by two states (Alabama and Mississippi).

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #18: April 29, 2018 – May 5, 2018

Date: Wednesday, May 9, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 63 patients with influenza-like-illness (ILI) for week ending May 5, 2018 (week 18). The percentage of persons seen with ILI by the twelve providers was 0.9% (63/6684) which is below the regional baseline of 2.4%. During week 17, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.4%. Nationwide during week 17 the percentage of visits to sentinel providers due to ILI was 1.5% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.8% to 2.3%. One region (Region 1) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

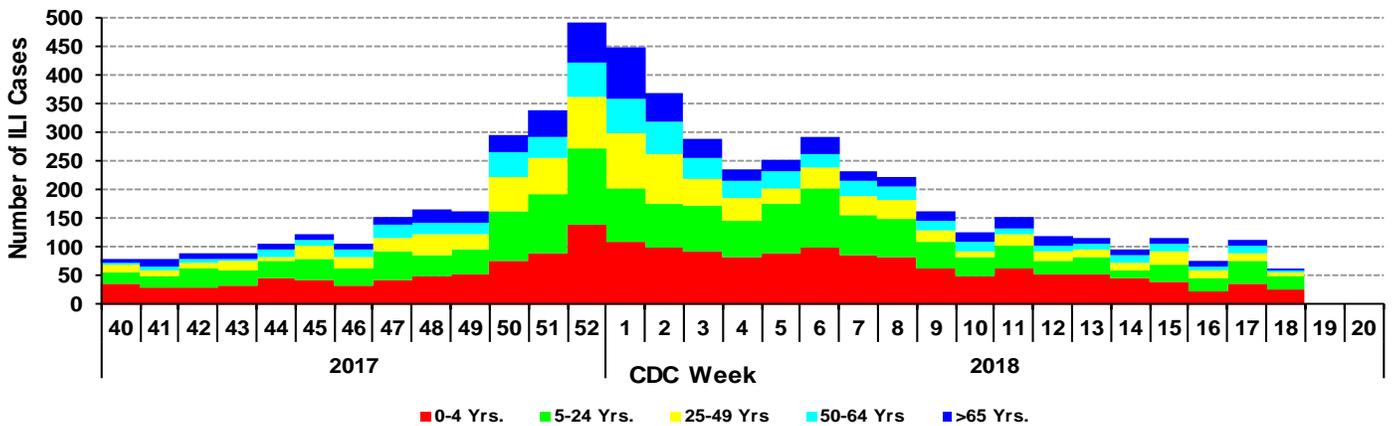
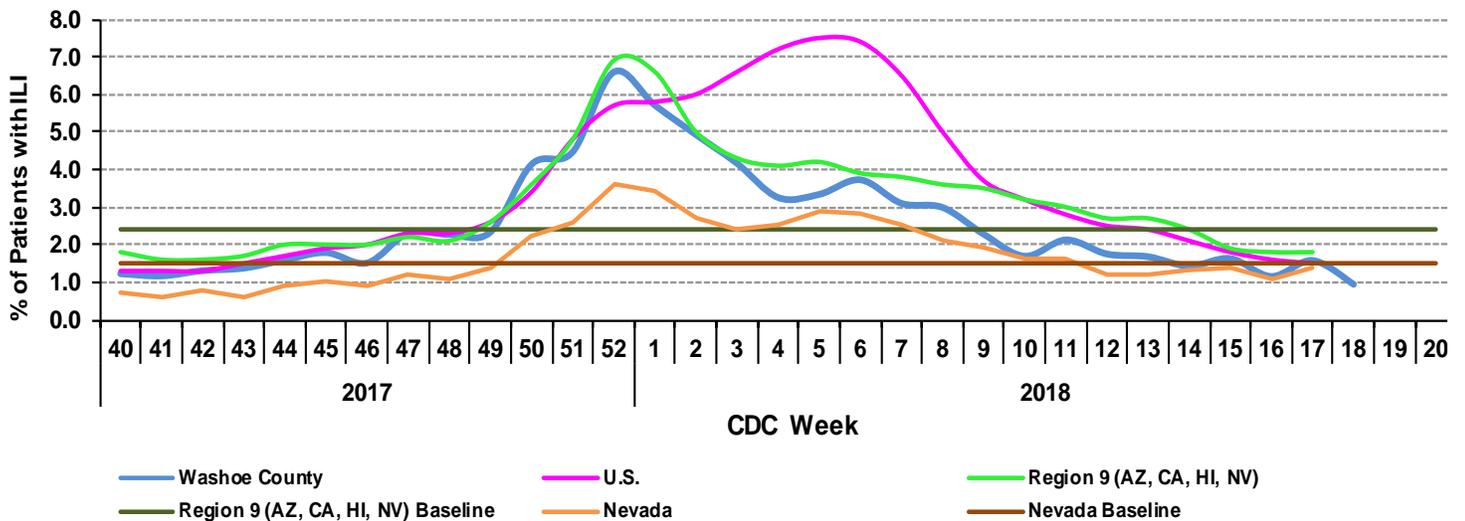


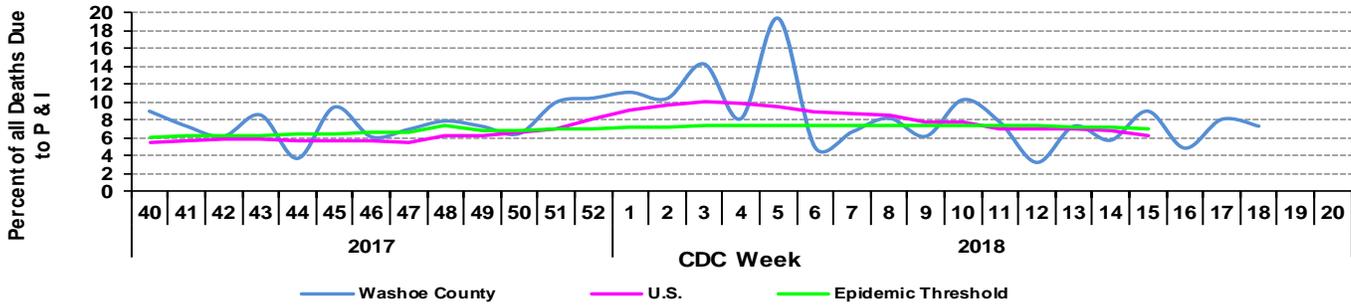
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

Six death certificates were received for week 18 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 18 was 82. This reflects a P&I ratio of 7.3% which is above the epidemic threshold set by CDC for week 15 at 7.1%. The national P&I for week 15 was below the epidemic threshold at 6.2%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 254. This reflects an overall P&I ratio of 8.2% (254/3091).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
18	1	Negative

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
65	27	16	22	0

Washoe County Total: 5,496 | Influenza type A: 3,244 | Influenza type B: 1,832 | Influenza unk type: 420

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 18) April 29 - May 5, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - May 5, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	29	1	3.4	1	100.0	0	0.0	0	0.0	0	0.0	5496	536	9.8	220	41.0	86	1.6	26	0.5
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	8	3	0.6	0	0.0	0	0.0	0	0.0
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	81	12	2.2	4	33.3	3	3.5	0	0.0
Influenza A (not subtyped)	1	1	100.0	1	100.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	788	273	50.9	127	46.5	49	57.0	12	46.2
Influenza A (RIDT*)	2	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	2367	114	21.3	43	37.7	16	18.6	5	19.2
Influenza B (RIDT*)	19	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1388	25	4.7	7	28.0	0	0.0	1	3.8
Influenza B (non-RIDT**)	5	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	444	108	20.1	39	36.1	18	20.9	8	30.8
Influenza (unknown type, RIDT*)	2	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	420	1	0.2	0	0.0	0	0.0	0	0.0

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

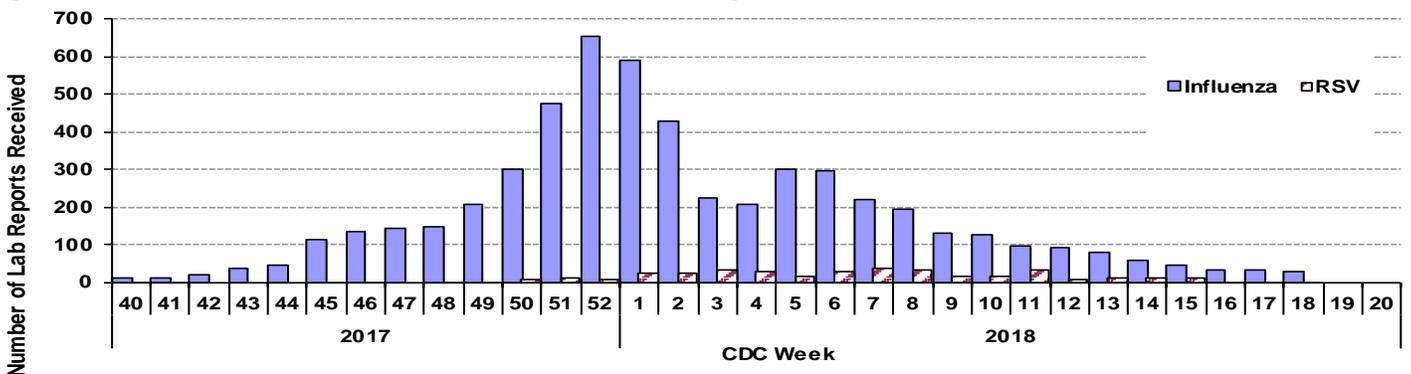


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

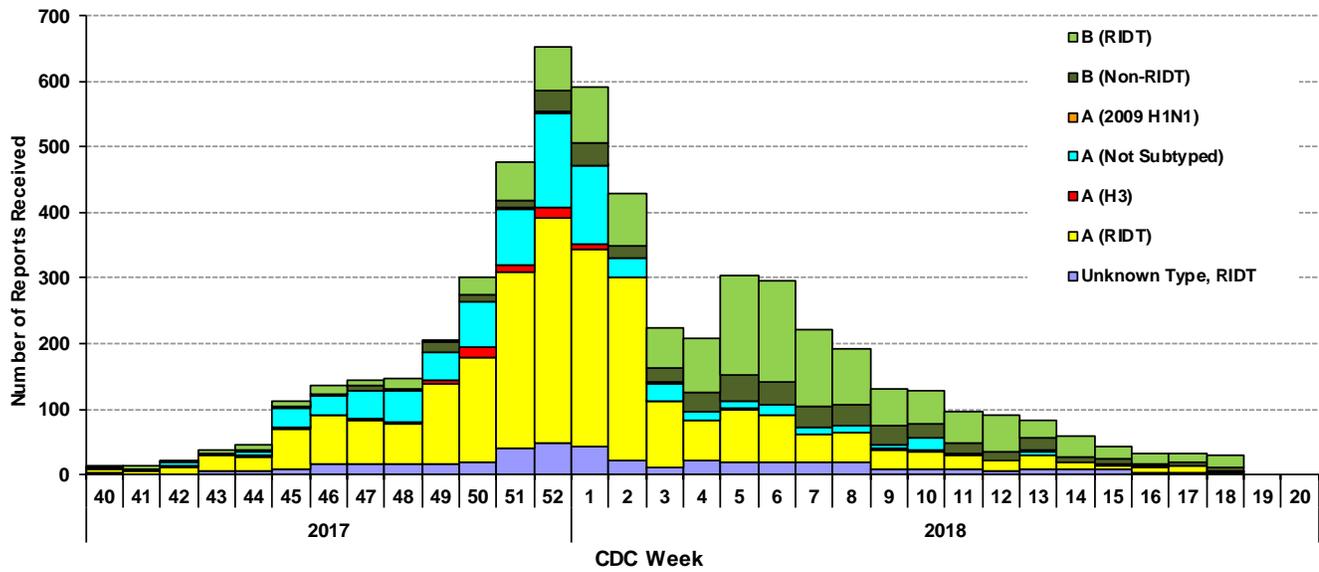


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

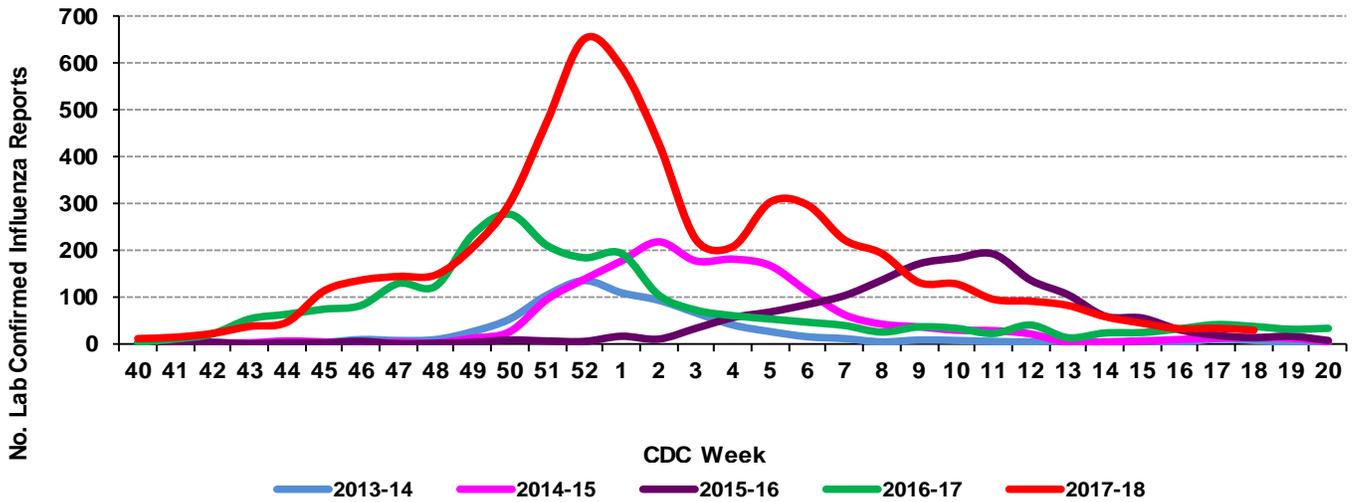
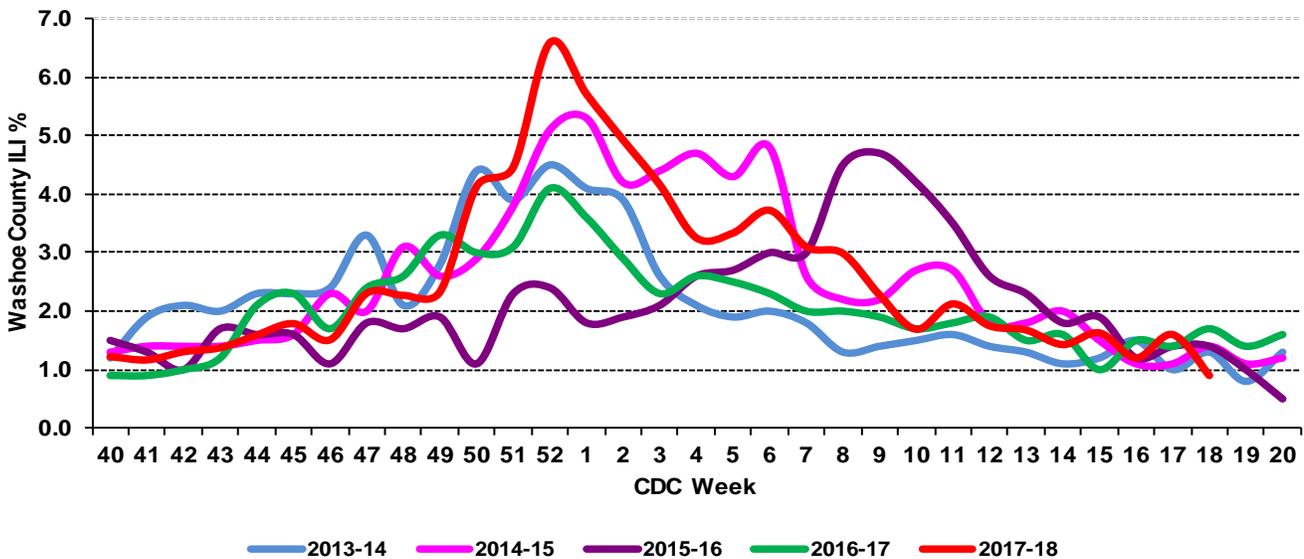
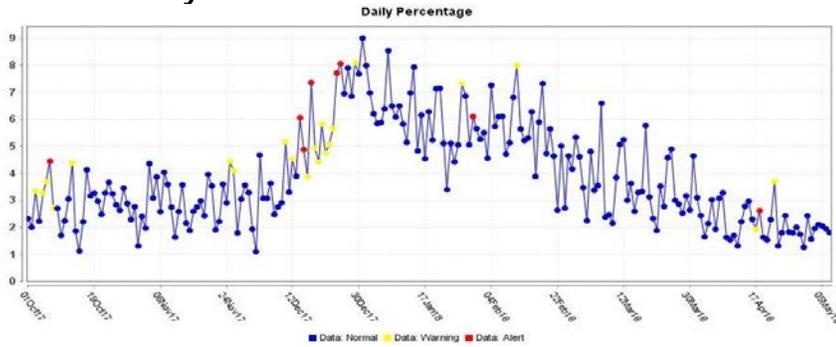


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

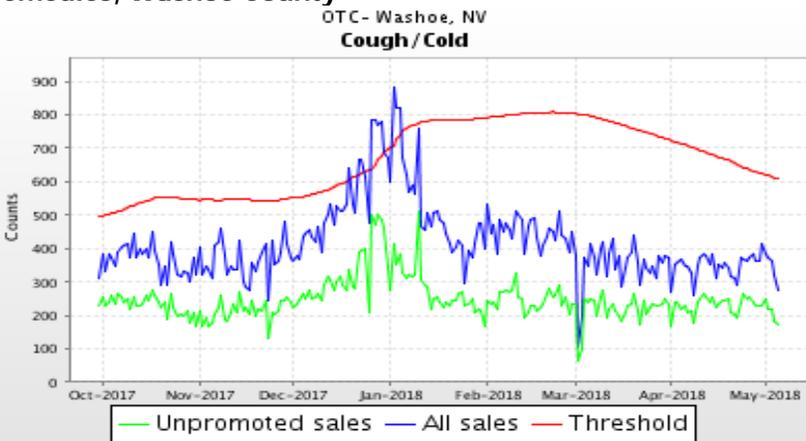


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

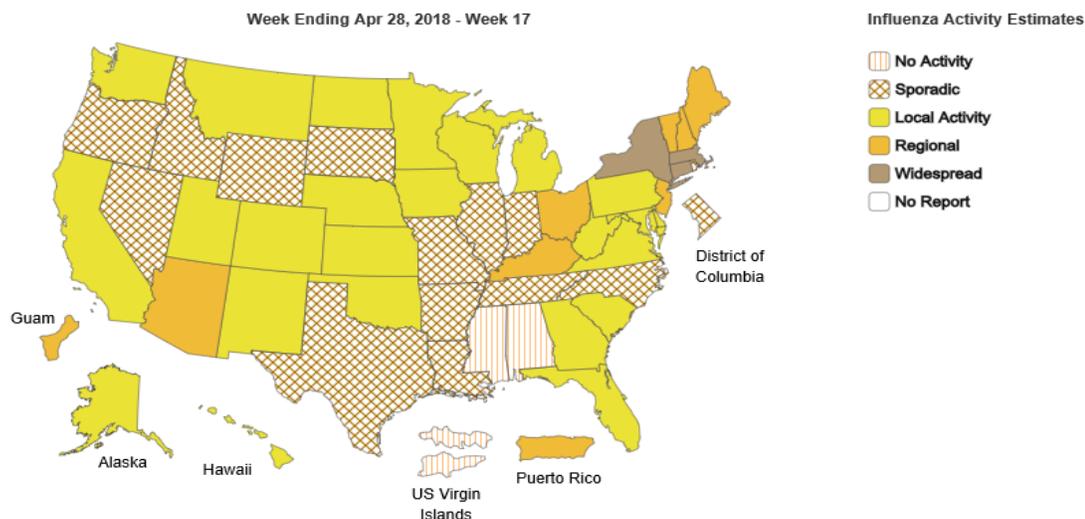


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week 17, the following influenza activity was reported:

- Widespread influenza activity was reported by three states (Connecticut, Massachusetts, and New York).
- Regional influenza activity was reported by Guam, Puerto Rico and seven states (Arizona, Kentucky, Maine, New Hampshire, New Jersey, Ohio, and Vermont).
- Local influenza activity was reported by 24 states (Alaska, California, Colorado, Delaware, Florida, Georgia, Hawaii, Iowa, Kansas, Maryland, Michigan, Minnesota, Montana, Nebraska, New Mexico, North Dakota, Oklahoma, Pennsylvania, South Carolina, Utah, Virginia, Washington, West Virginia, and Wisconsin).
- **Sporadic** influenza activity was reported by the District of Columbia and 14 states (Arkansas, Idaho, Illinois, Indiana, Louisiana, Missouri, **Nevada**, North Carolina, Oregon, Rhode Island, South Dakota, Tennessee, Texas, and Wyoming).
- No influenza activity was reported by the U.S. Virgin Islands and two states (Alabama and Mississippi).

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #19: May 6, 2018 – May 12, 2018

Date: Wednesday, May 16, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Twelve of the twelve participating providers in Washoe County reported a total of 79 patients with influenza-like-illness (ILI) for week ending May 12, 2018 (week 19). The percentage of persons seen with ILI by the twelve providers was 1.1% (79/6896) which is below the regional baseline of 2.4%. During week 18, the percentage of patient visits to Nevada sentinel providers due to ILI was 0.8%. Nationwide during week 18 the percentage of visits to sentinel providers due to ILI was 1.5% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.5% to 3.1%. One region (Region 2) reported a proportion of outpatient visits for ILI at or above their region-specific baseline level. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

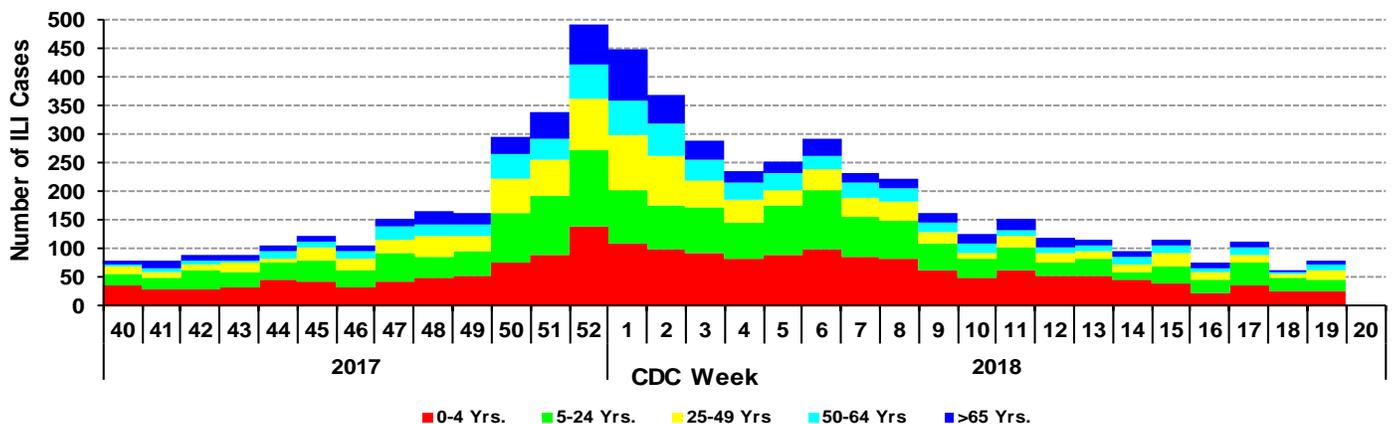
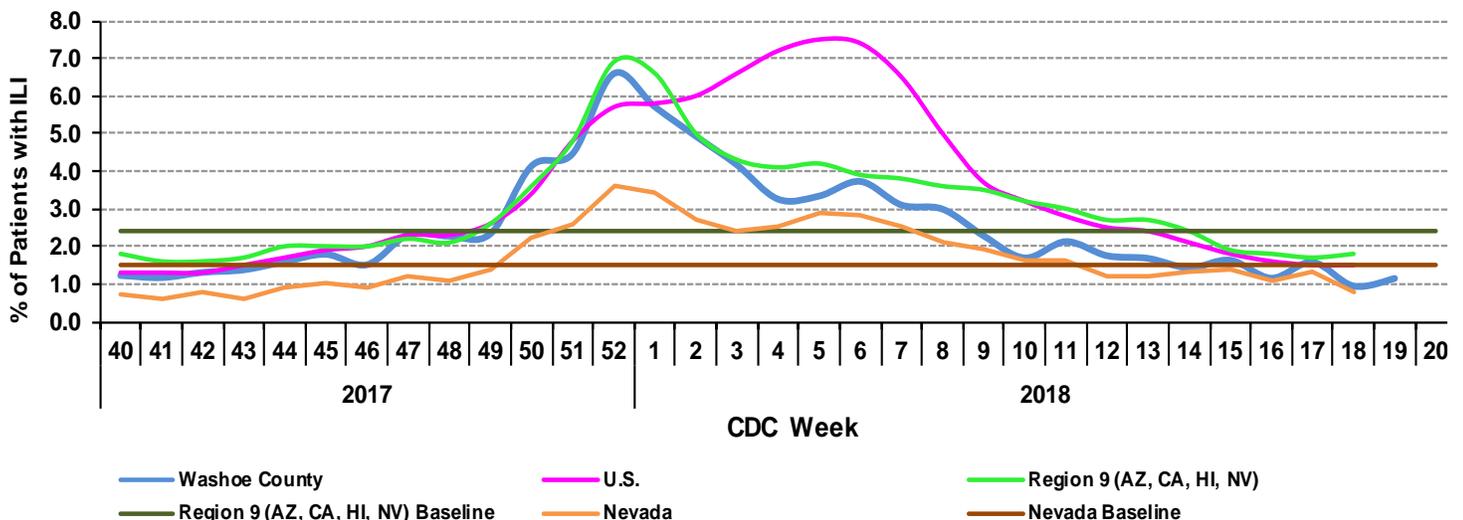


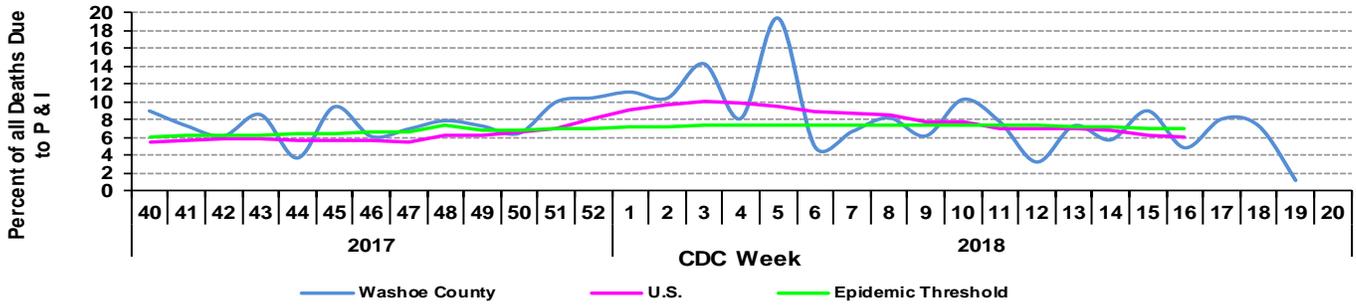
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

One death certificate was received for week 19 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 19 was 84. This reflects a P&I ratio of 1.2% which is below the epidemic threshold set by CDC for week 16 at 7.0%. The national P&I for week 16 was below the epidemic threshold at 6.0%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 255. This reflects an overall P&I ratio of 8.0% (255/3175).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
19	0	

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
65	27	16	22	0

Washoe County Total: 5,512 | Influenza type A: 3,248 | Influenza type B: 1,839 | Influenza unk type: 425

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 19) May 6 - May 12, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - May 12, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	18	2	11.1	1	50.0	0	0.0	0	0.0	0	0.0	5512	537	9.7	220	41.0	86	1.6	26	0.5
Influenza A (2009 H1N1)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	8	3	0.6	0	0.0	0	0.0	0	0.0
Influenza A (seasonal H3)	0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	81	12	2.2	4	33.3	3	3.5	0	0.0
Influenza A (not subtyped)	1	0	0.0	1	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	789	273	50.8	127	46.5	49	57.0	12	46.2
Influenza A (RIDT*)	3	2	100.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	2370	116	21.6	43	37.1	16	18.6	5	19.2
Influenza B (RIDT*)	7	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	1395	25	4.7	7	28.0	0	0.0	1	3.8
Influenza B (non-RIDT**)	2	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	444	107	19.9	39	36.4	18	20.9	8	30.8
Influenza (unknown type, RIDT*)	5	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	425	1	0.2	0	0.0	0	0.0	0	0.0

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

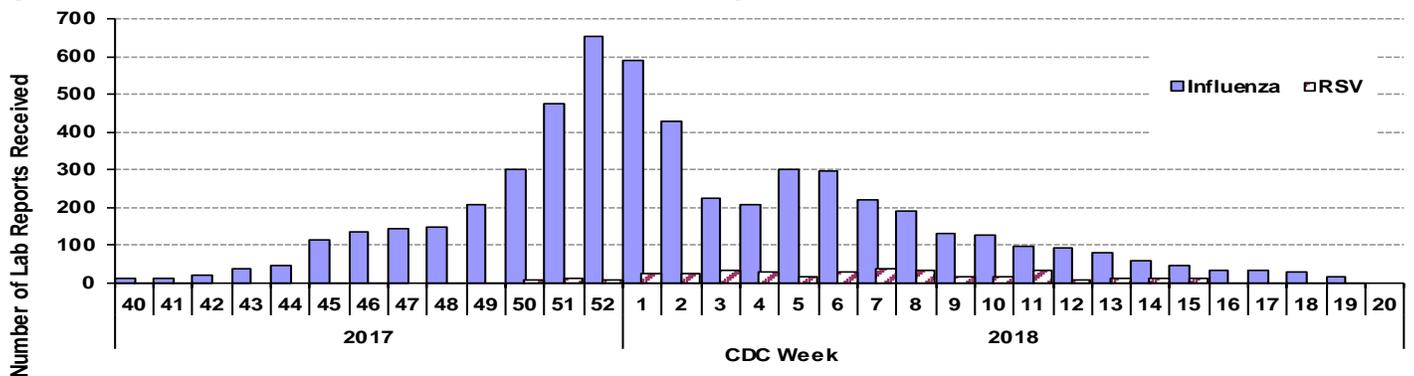


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

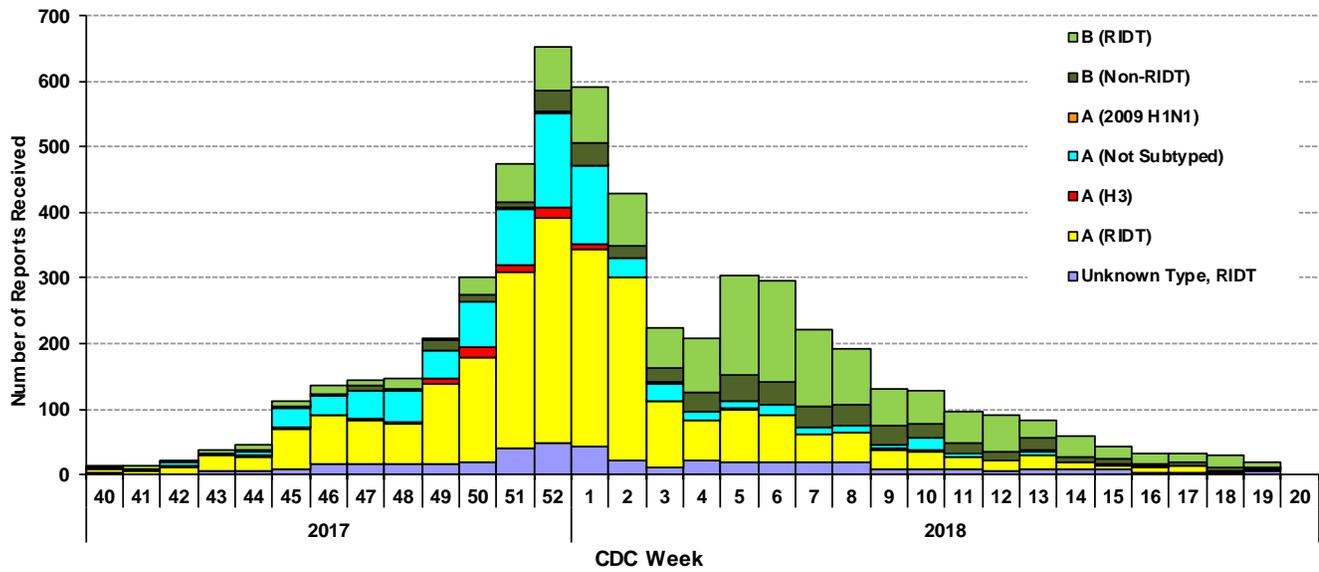


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

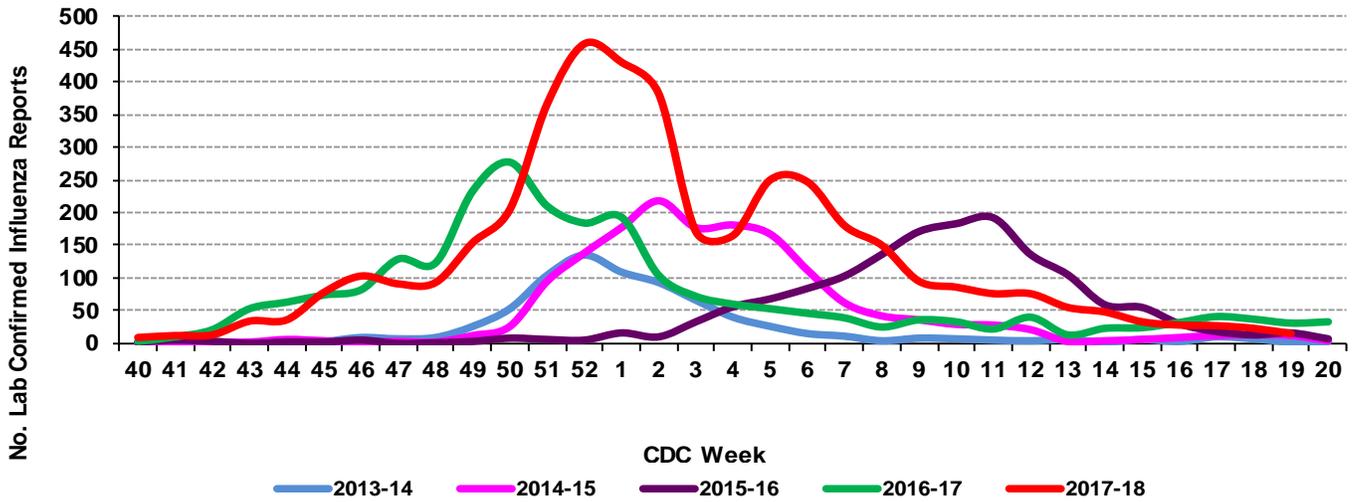
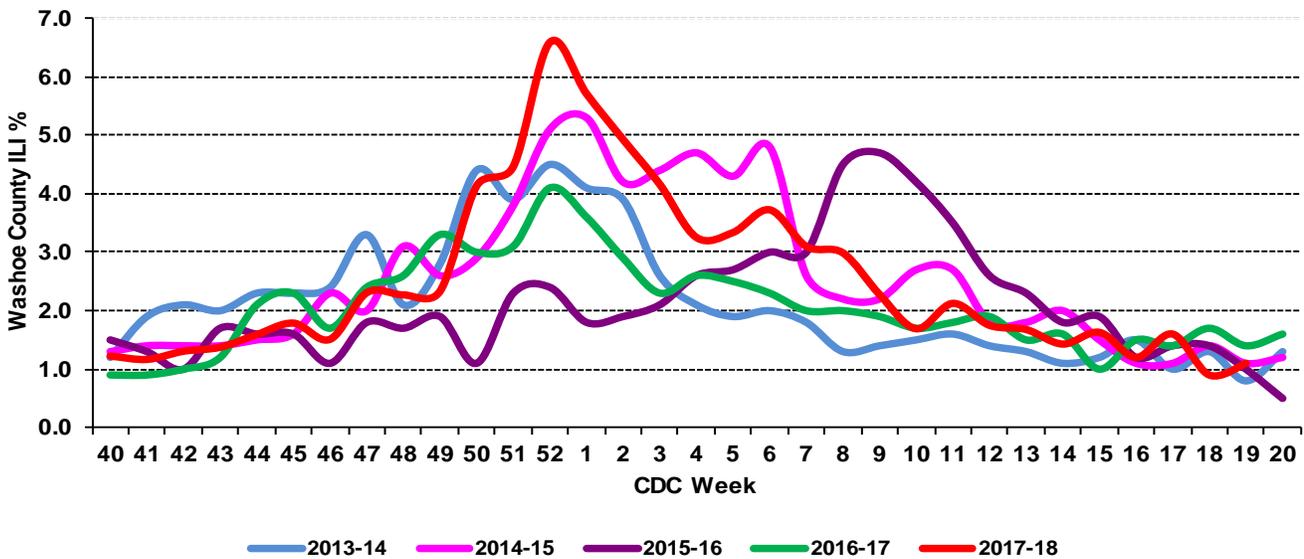
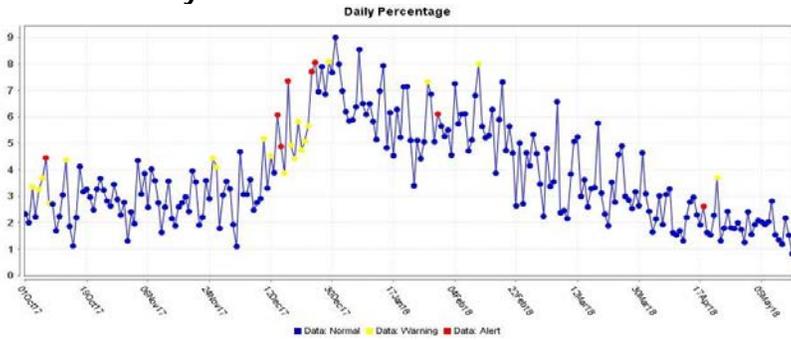


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

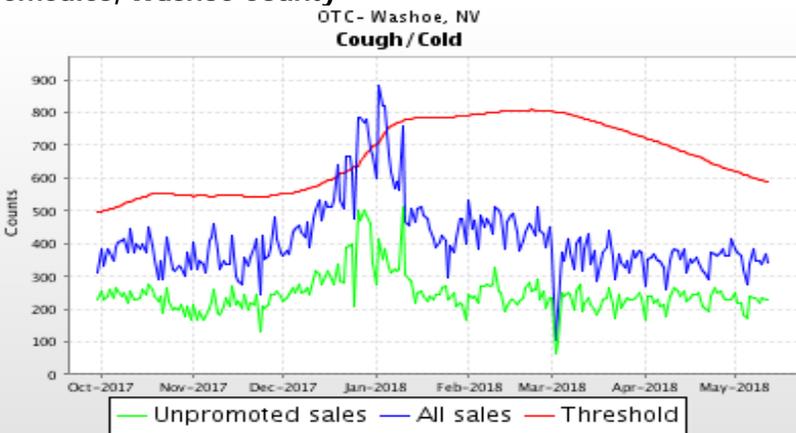


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

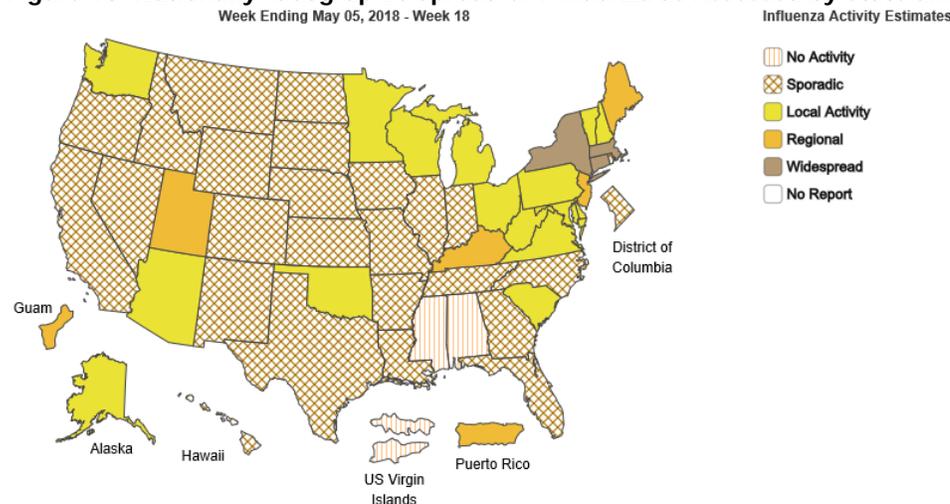


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists:



During week **18**, the following influenza activity was reported:

- Widespread influenza activity was reported by three states (Connecticut, Massachusetts, and New York).
- Regional influenza activity was reported by Guam, Puerto Rico and four states (Kentucky, Maine, New Jersey, and Utah).
- Local influenza activity was reported by 16 states (Alaska, Arizona, Delaware, Maryland, Michigan, Minnesota, New Hampshire, Ohio, Oklahoma, Pennsylvania, South Carolina, Vermont, Virginia, Washington, West Virginia, and Wisconsin).
- **Sporadic** influenza activity was reported by the District of Columbia and 25 states (Arkansas, California, Colorado, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Louisiana, Missouri, Montana, Nebraska, **Nevada**, New Mexico, North Carolina, North Dakota, Oregon, Rhode Island, South Dakota, Tennessee, Texas, and Wyoming).
- No influenza activity was reported by the U.S. Virgin Islands and two states (Alabama and Mississippi).

Washoe County Health District
2017-2018 Influenza Surveillance Program Weekly Report
CDC Week #20: May 13, 2018 – May 19, 2018

Date: Wednesday, May 23, 2018
To: Participating Health Care Providers
From: **Influenza Surveillance Coordinator:**
 Kerry Chalkley, MPH, Epidemiologist
 Division of Epidemiology & Public Health Preparedness (EPHP)
 775-328-2447 kchalkley@washoecounty.us

Summary: Eleven of the twelve participating providers in Washoe County reported a total of 64 patients with influenza-like-illness (ILI) for week ending May 19, 2018 (week 20). The percentage of persons seen with ILI by the eleven providers was 1.0% (64/6168) which is below the regional baseline of 2.4%. During week 19, the percentage of patient visits to Nevada sentinel providers due to ILI was 1.2%. Nationwide during week 19 the percentage of visits to sentinel providers due to ILI was 1.2% which is below the national baseline of 2.2%. On a regional level, the percentage of outpatient visits for ILI ranged from 0.5% to 2.1%. All ten regions reported a percentage of outpatient visits for ILI below their region-specific baselines. Nevada is in Region 9.

Level of INFLUENZA Activity:

Figure 1. Number of ILI Cases by Week and Age Group Reported by Sentinel Providers, Washoe County Influenza Surveillance, 2017-2018.

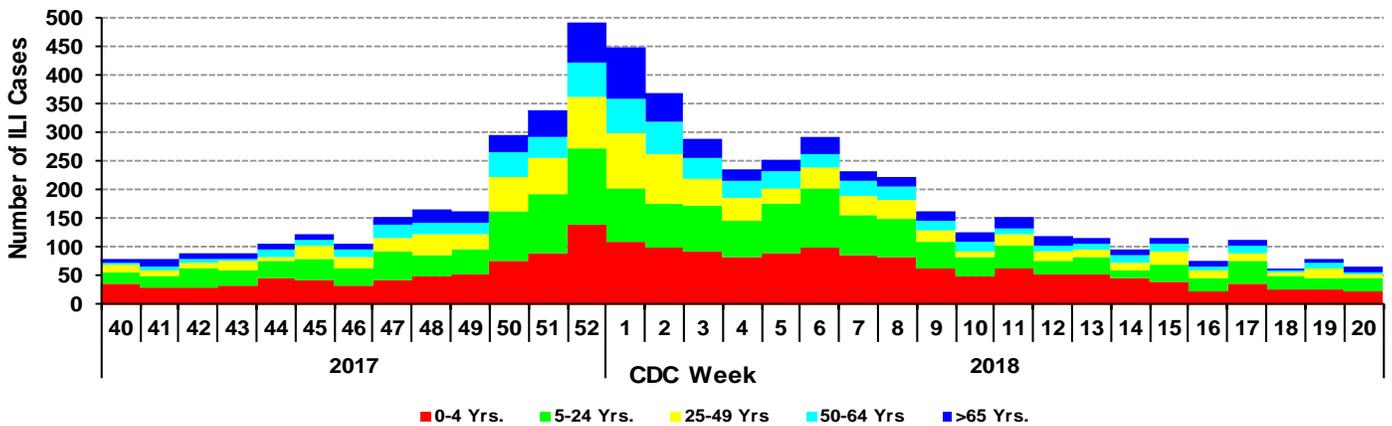
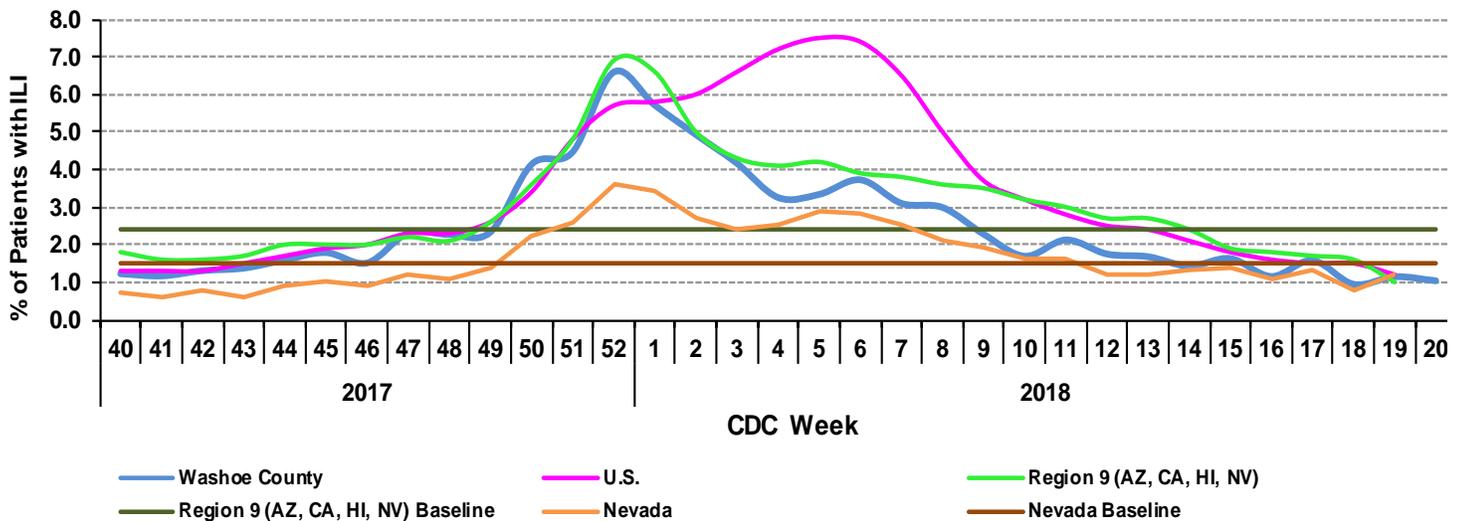


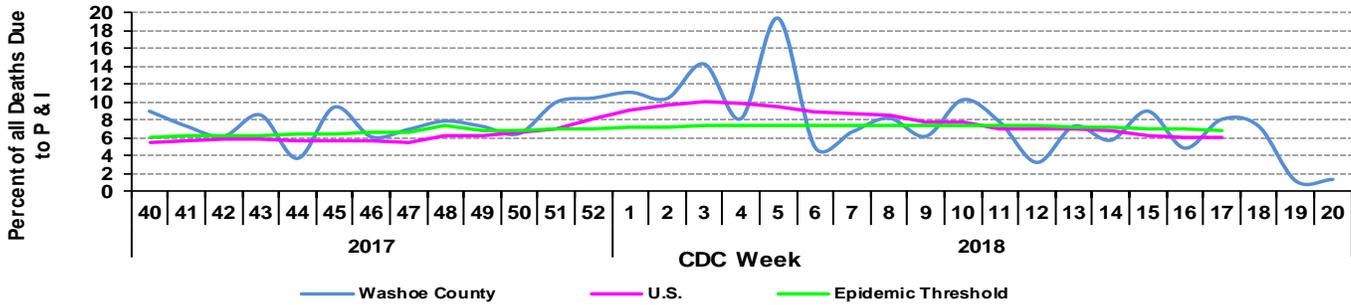
Figure 2. Proportion of Patients Seen with ILI by Sentinel Physicians, Washoe County Influenza Surveillance, 2017-2018.



Pneumonia & Influenza Mortality:

One death certificate was received for week 20 listing pneumonia (P) or influenza (I) as a factor contributing to the cause of death. The total number of deaths submitted for week 20 was 74. This reflects a P&I ratio of 1.4% which is below the epidemic threshold set by CDC for week 17 at 6.9%. The national P&I for week 17 was below the epidemic threshold at 6.0%. The total P&I deaths registered to date in Washoe County for the 2017-2018 influenza surveillance season is 256. This reflects an overall P&I ratio of 7.9% (256/3249).

Figure 3. Pneumonia and Influenza Mortality, Washoe County Influenza Surveillance, 2017 – 2018.



INFLUENZA TESTING RESULTS

Note: All numbers are provisional and subject to change. Results are reported by the week of specimen collection date.

Sentinel Provider Testing Results:

Weekly Testing Results:

Week #	# Specimens Submitted	Results
20	1	B (Yamagata)

Specimens Submitted To Date:

Total specimens	Influenza type A	Influenza type B	Negative	Pending
66	27	17	22	0

Washoe County Total: 5,521 | Influenza type A: 3,247 | Influenza type B: 1,847 | Influenza unk type: 427

Table 1. Number of Hospitalized Cases, ICU Cases and Fatalities for All Reported Laboratory-Confirmed Influenza, Washoe County Influenza Surveillance, 2017-2018.

#DIV/0! Denominator is zero formula unable to calculate	Current Week (Week 20) May 13 - May 19, 2018								Cumulative for 2017-2018 Influenza Season October 1, 2017 - May 19, 2018											
	Total		Hospitalized		Vax ^s		ICU		Death		Total		Hospitalized		Vax ^s		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Total # of cases reported	10	30.0	3	30.0	1	33.3	0	0.0	0	0.0	5521	542	9.8	221	40.8	88	1.6	26	0.5	
Influenza A (2009 H1N1)	0	0.0	0	0.0	#DIV/0!	#DIV/0!	0	#DIV/0!	0	#DIV/0!	8	3	0.6	0	0.0	0	0.0	0	0.0	
Influenza A (seasonal H3)	0	0.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	81	12	2.2	4	33.3	3	3.4	0	0.0	
Influenza A (not subtyped)	0	0.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	789	273	50.4	127	46.5	49	55.7	12	46.2	
Influenza A (RIDT*)	0	0.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	2369	116	21.4	43	37.1	17	19.3	5	19.2	
Influenza B (RIDT*)	4	33.3	1	33.3	1	100.0	0	#DIV/0!	0	#DIV/0!	1399	27	5.0	8	29.6	1	1.1	1	3.8	
Influenza B (non-RIDT**)	4	66.7	2	66.7	0	0.0	0	#DIV/0!	0	#DIV/0!	448	110	20.3	39	35.5	18	20.5	8	30.8	
Influenza (unknown type, RIDT*)	2	0.0	0	0.0	0	#DIV/0!	0	#DIV/0!	0	#DIV/0!	427	1	0.2	0	0.0	0	0.0	0	0.0	

*RIDT: *Rapid Influenza Diagnostic Test

**Confirmatory tests other than RIDT may include culture, PCR, immunofluorescence, DFA/IFRA antibody staining, or rapid molecular assay.

^sVaccination status determined among hospitalized cases only. Patient is considered vaccinated if they received a flu vaccine ≥ 2 weeks prior to illness onset.

Figure 4. Number of Influenza & RSV Cases, Washoe County Communicable Disease Surveillance, 2017-2018

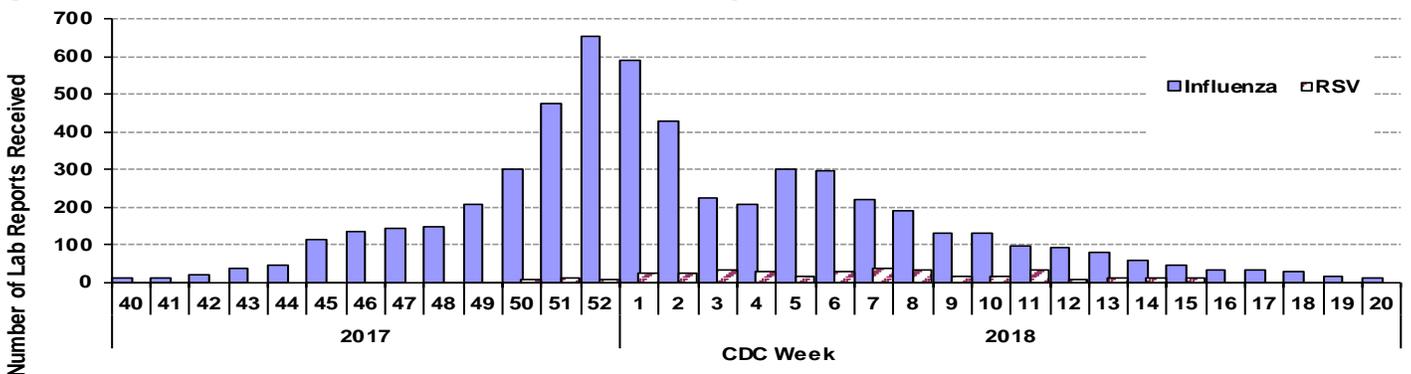


Figure 5. Influenza Positive Tests by Week of Collection, Washoe County Influenza Surveillance, 2017-2018.

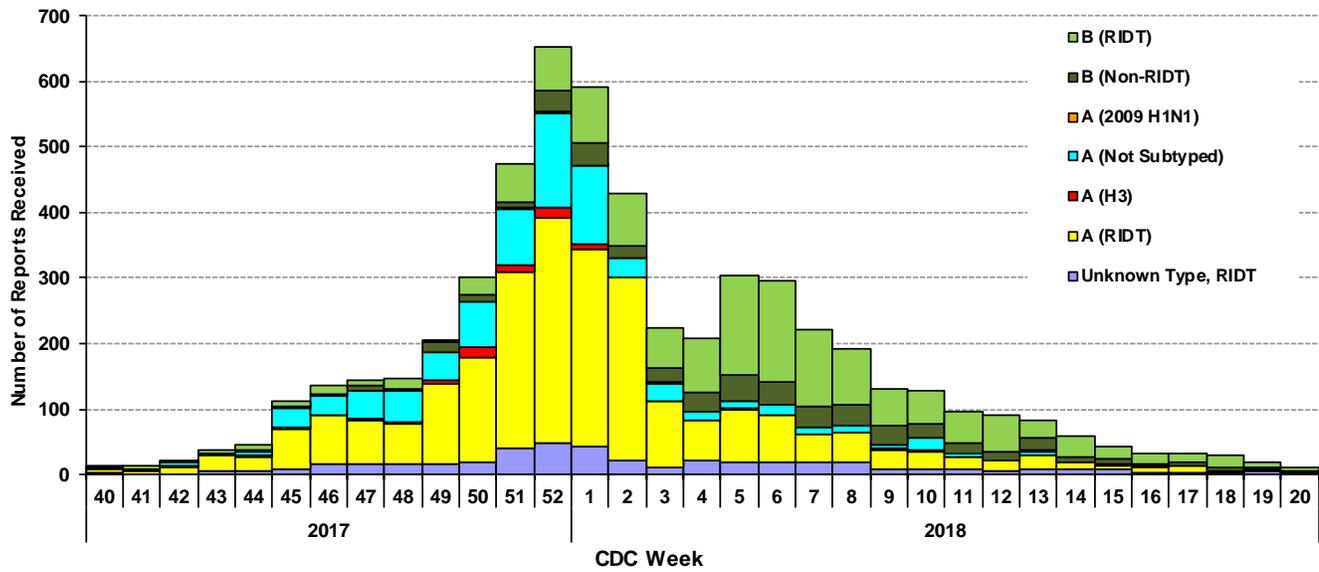


Figure 6. Laboratory Confirmed Influenza Reports, 2013-2018 Seasons:

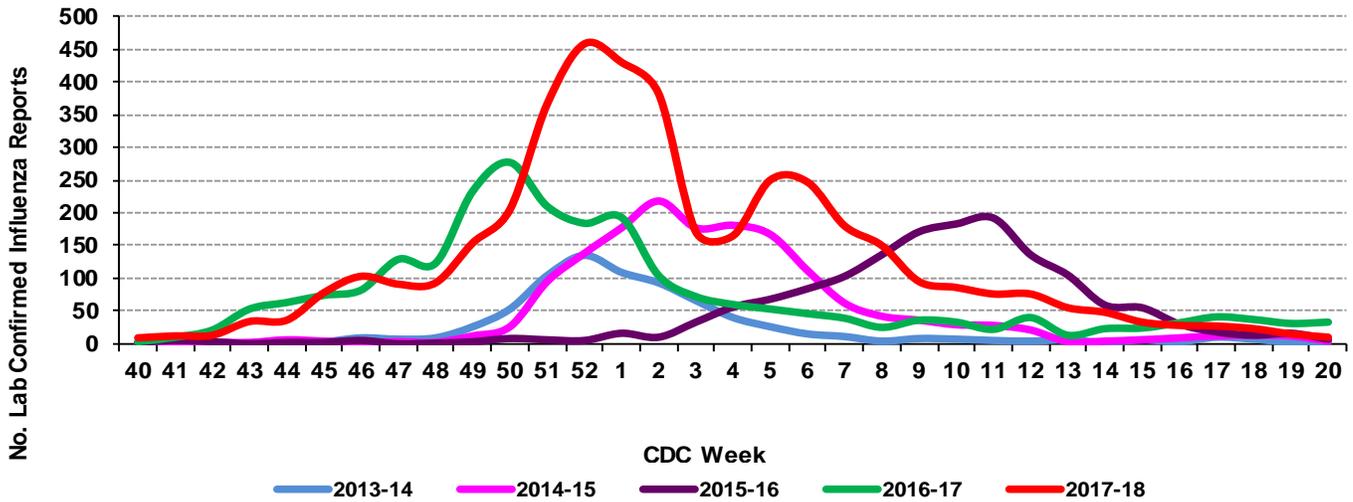
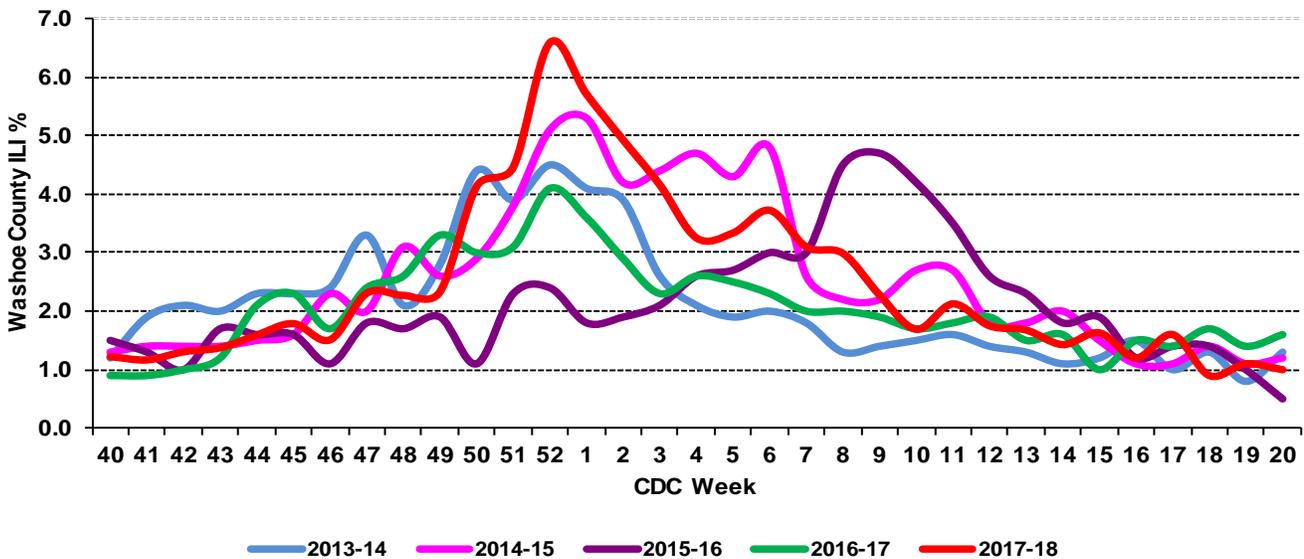
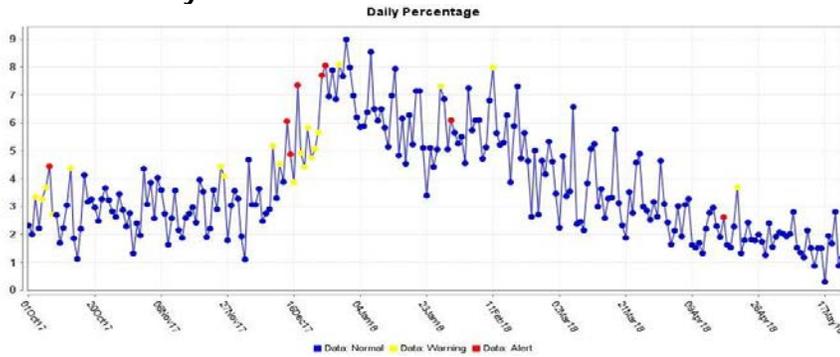


Figure 7. Washoe County ILI Cases Reported by Sentinel Providers, 2013-2018 Seasons:



SYNDROMIC SURVEILLANCE:

Figure 8. Percentage of ED and UC Visits for Influenza-Like Illness, Washoe County

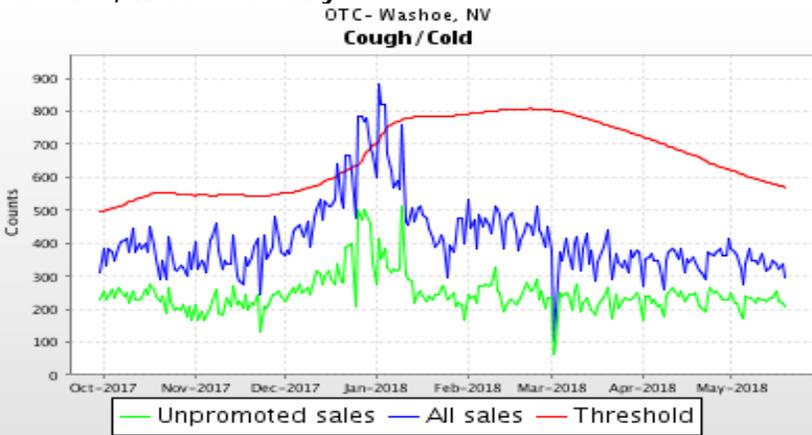


Emergency Department (ED) Visits and Renown Urgent Care (UC) Visits:

Percentage of patients seen for an Influenza-like Illness (ILI). ILI is defined as influenza or fever and a cough and/or a sore throat. Non-ILI fevers are excluded. Yellow dots indicate data warnings and red dots indicate data alerts. These warnings and alerts indicate an unusually high percentage of ILI visits according to ESSENCE algorithms.

(Source: ESSENCE)

Figure 9. Over-the-Counter (OTC) sales for cough and/or cold remedies, Washoe County

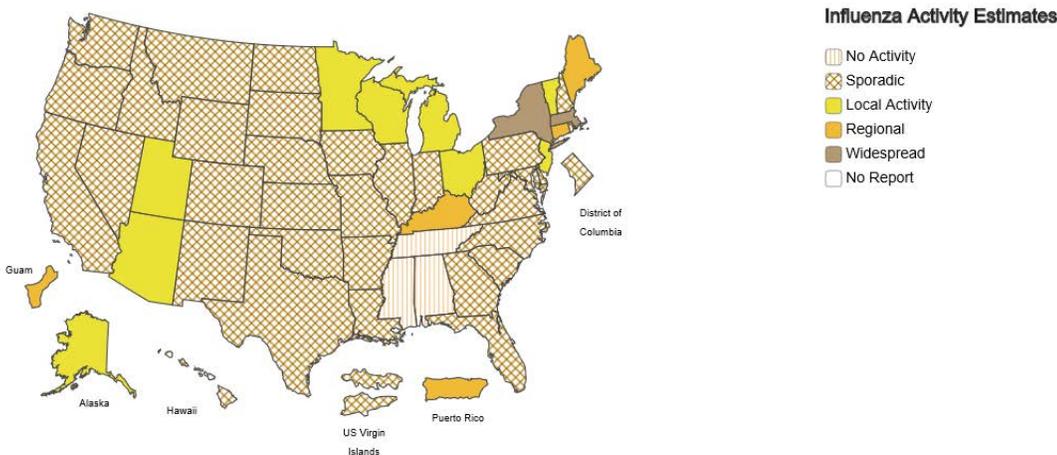


Over-the-Counter (OTC) sales for cough and/or cold remedies include:

Cold Relief Adult/Pediatric Liquid/Tablet (plain cold liquids or tablets, antihistamines, decongestants, night-time liquid cold relief products, and allergy relief products); Cough Syrup Adult Liquid/Tablet (Any cough whip products, cough syrups, cough tablets, capsules, squares for relief of cough in adults); Cough Syrup Pediatric Liquid (Any cough whip products, cough syrups for relief of cough in children).

(Data source: National Retail Data Monitor Data coverage in Washoe County: ~40%)

Figure 10. Nationally: Geographic Spread of Influenza as Assessed by State and Territorial Epidemiologists: Week Ending May 12, 2018 - Week 19



During week 19, the following influenza activity was reported:

- Widespread influenza activity was reported by two states (Massachusetts and New York).
- Regional influenza activity was reported by Guam, Puerto Rico and three states (Connecticut, Kentucky, and Maine).
- Local influenza activity was reported by nine states (Alaska, Arizona, Michigan, Minnesota, New Jersey, Ohio, Utah, Vermont, and Wisconsin).
- **Sporadic** influenza activity was reported by the District of Columbia, the U.S. Virgin Islands and 33 states (Arkansas, California, Colorado, Delaware, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Louisiana, Maryland, Missouri, Montana, Nebraska, **Nevada**, New Mexico, New Hampshire, North Carolina, North Dakota, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Texas, Virginia, Washington, West Virginia, and Wyoming).
- No influenza activity was reported by three states (Alabama, Mississippi, and Tennessee).