



Respiratory Illness Surveillance

Report #1

CDC Weeks 40 - 42:

Sept. 29, 2024 - Oct. 19, 2024



Epidemiology Division:

Dustin Boothe, MPH, REHS *DBoothe@carson.org*
Garrett Olson, MPH *GOlson@carson.org*
Raechel Freshman, MPH, CIC *RFreshman@carson.org*

Public Health Data Analyst:

Jon M. Evasovic, Ph.D. *JEvasovic@carson.org*

Weekly Updates & Season Summary

Influenza and influenza-like illness (ILI):

Current Weeks

- 119 new ILI cases reported in Carson City, Douglas County, and Lyon County.
- 3 new influenza hospitalizations and 0 deaths

Season Summary

- 32 total confirmed influenza cases
- Influenza incidence rate = 18.1 per 100,000 population
- Influenza hospitalization rate = 1.7 per 100,000 population

COVID-19 and COVID-like illness (CLI):

Current Weeks

- 221 new CLI cases reported within the Quad-County Region*
- 8 new COVID-19 hospitalizations and 0 deaths

Season Summary

- 167 total confirmed COVID-19 cases
- COVID-19 incidence rate = 94.6 per 100,000 population
- COVID-19 hospitalization rate = 4.5 per 100,000 population

Respiratory Syncytial Virus (RSV):

Current Weeks

- 0 new RSV cases reported in Carson City, Douglas County, and Lyon County.

Season Summary

- Total confirmed RSV cases = 0

*Storey County is included in CLI surveillance reports for the Quad-County Region.

Please note that reported weekly data are preliminary and may change due to delayed submissions or additional laboratory testing.

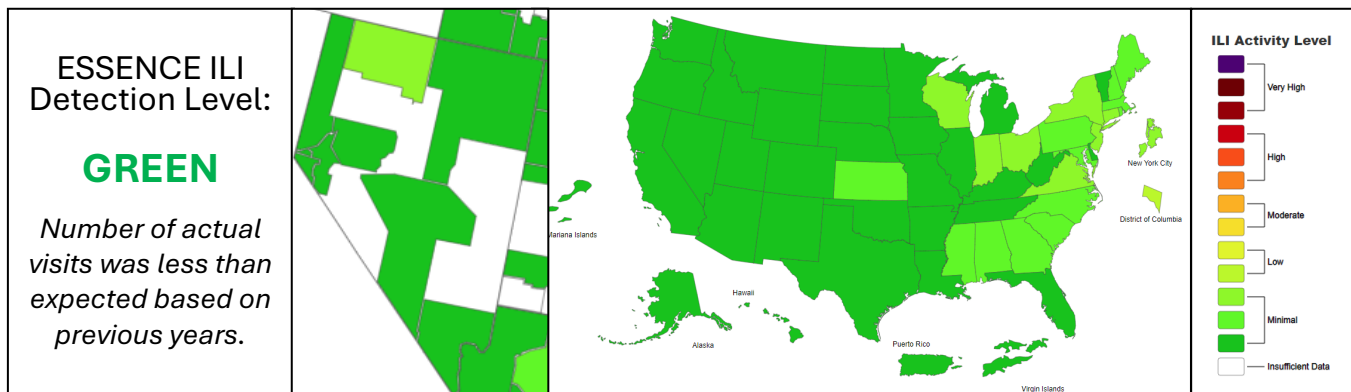
Influenza-like illness (ILI)

Overview:

Influenza-like illness (ILI) is defined as an acute respiratory infection with a fever ($\geq 100^{\circ}\text{F}$ [38.0°C]), cough and/or sore throat, and symptom onset within the last 10 days. ILI activity is determined by the proportion of outpatient visits to emergency departments and urgent cares for respiratory illness. CCHHS surveils ILI activity in Carson City, Douglas County, and Lyon County.

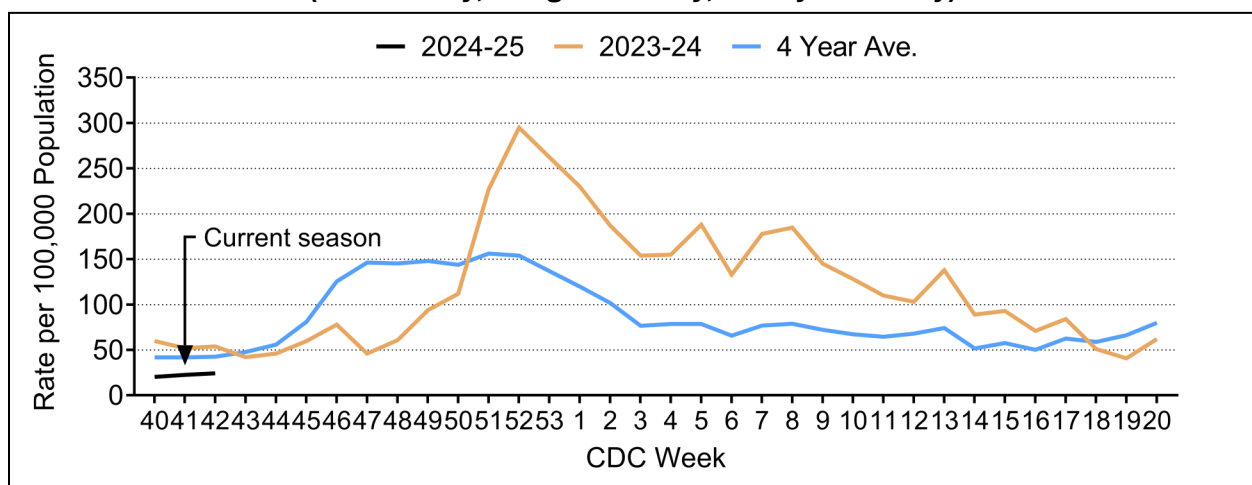
- ◆ The largest proportion of newly reported ILI cases (**47.4%**) was in the 25-49 year age group.
- ◆ The smallest proportion of newly reported ILI cases (**5.3%**) was in the 65+ year age group.
- ◆ Cumulative ILI case counts for Carson City, Douglas County, and Lyon County were **28.3%** lower compared to the same point last season.
- ◆ Lyon County had the highest weekly ILI rate (**140.8 per 100,000**).
- ◆ Douglas County had the lowest weekly ILI rate (**22.1 per 100,000**).
- ◆ Type A comprised **93.8%** of laboratory confirmed influenza cases.

Figure 1: Statewide and National ILI Surveillance, (CDC Weeks 40-42, 2024)



Data source: <https://gis.cdc.gov/grasp/fluview/main.html>

Figure 2: Comparison of Current Season ILI Rates with Previous Seasons (Carson City, Douglas County, and Lyon County)



For years without a week 53, values were obtained by averaging week 52 and week 1. Data source: https://essence.syndromicsurveillance.org/nssp_essence

Please note that reported weekly data are preliminary and may change due to delayed submissions or additional laboratory testing.

Influenza-like illness (ILI)

Table 1: Comparison of Current Report ILI Rates with Previous Weeks and Other Jurisdictions

	Carson City	Douglas County	Lyon County	Washoe County	Clark County	Nevada
Previous Report	-	-	-	-	-	-
Current Report	31.8 (+0.0%)	22.1 (+0.0%)	140.8 (+0.0%)	83.7 (+0.0%)	53.8 (+0.0%)	38.3 (+0.0%)
Season Cumulative	31.8	22.1	140.8	83.7	53.8	38.3

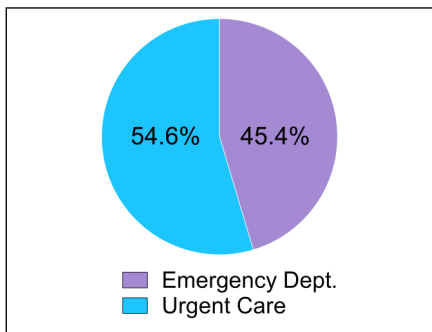
Data source: https://essence.syndromicsurveillance.org/nssp_essence

Table 2: Comparison of Current Report ILI Counts with Previous Seasons (Carson City, Douglas County, and Lyon County)

	Current Season (2024-25)	Change From Last Report	Last Season (2023-24)	Change From Last Season	4-Season Avg. (2020-24)	Change From 4-Season Avg.
Previous Report	-	-	-	-	-	-
Current Report	119	N/A	166	-28.3%	126	-5.6%
Season Cumulative	119	N/A	166	-28.3%	126	-5.6%

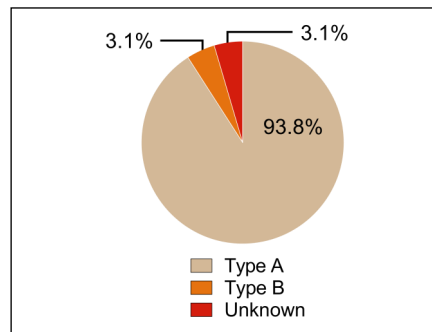
Data source: https://essence.syndromicsurveillance.org/nssp_essence

Figure 3: ILI by Facility Type, (CDC Weeks 40-42, 2024)



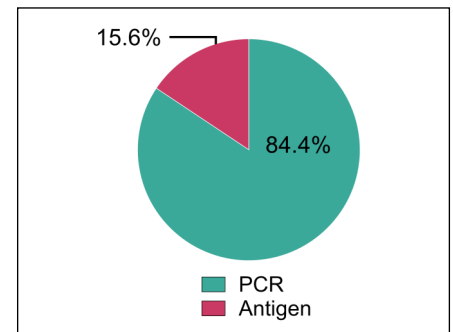
Data represents Carson City, Douglas County, and Lyon County.

Figure 4: Flu by Type, (CDC Weeks 40-42, 2024)



Data represents Carson City, Douglas County, and Lyon County.

Figure 5: Flu by Test Type, (CDC Weeks 40-42, 2024)



Data represents Carson City, Douglas County, and Lyon County.

Table 3: Influenza by Age, (CDC Weeks 40-42, 2024)

Age Group	Population	Cases	Rate/100K
0-4	8,293	7	84.4
5-24	36,052	14	38.8
25-49	50,615	4	7.9
50-64	38,075	1	2.6
65+	43,474	6	13.8

Data represents Carson City, Douglas County, and Lyon County.

Table 4: Influenza by Race/Ethnicity, (CDC Weeks 40-42, 2024)

Race/Ethnicity	Population	Cases	Rate/100K
Am. Indian/AK Native	4,622	0	0.0
Asian/PI	4,381	0	0.0
Black/African Am.	1,948	1	51.3
White	131,951	23	16.2
Hispanic or Latino	33,603	7	28.6

Data represents Carson City, Douglas County, and Lyon County. Am. = American, AK = Alaskan, PI = Pacific Islander.

Please note that reported weekly data are preliminary and may change due to delayed submissions or additional laboratory testing.

Influenza-like illness (ILI)

Table 5: Influenza by Vaccination Status, Hospitalization, ICU Admission, and Death (CDC Weeks 40-42, 2024)

	Current Report (CDC Weeks 40-42, 2024)								Cumulative for 2024-25 Season							
	Hosp.		Vax		ICU		Death		Hosp.		Vax		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Carson City	2	6.3	1	3.1	0	0.0	0	0.0	2	6.3	1	3.1	0	0.0	0	0.0
Douglas County	1	3.1	0	0.0	0	0.0	0	0.0	1	3.1	0	0.0	0	0.0	0	0.0
Lyon County	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Percentage represents proportion of total cases in Carson City, Douglas County, and Lyon County.

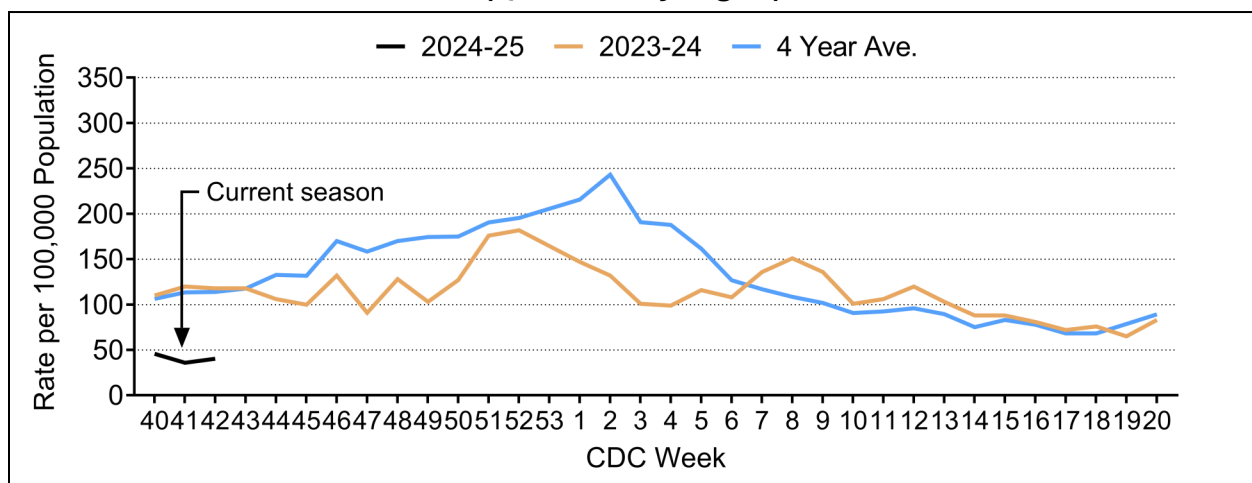
COVID-like illness (CLI)

Overview:

COVID-like illness (CLI) is defined as an acute respiratory infection with a fever ($\geq 100^{\circ}\text{F}$ [38.0°C]) and cough or shortness of breath or difficulty breathing. CCHHS surveils CLI activity in Carson City, Douglas County, Lyon County, and Storey County.

- ◆ The largest proportion of newly reported CLI cases (**50.0%**) was in the 65+ year age group.
- ◆ The smallest proportion of newly reported CLI cases (**2.6%**) was in the 0-4 year age group.
- ◆ Cumulative CLI case counts for the Quad-County Region were **36.5%** lower compared to the same point last season.
- ◆ Lyon County had the highest weekly CLI rate (**209.5 per 100,000**).
- ◆ Carson City had the lowest weekly CLI rate (**63.6 per 100,000**).

Figure 6: Comparison of Current Season CLI Rates with Previous Seasons (Quad-County Region)



For years without a week 53, values were obtained by averaging week 52 and week 1. Data source: https://essence.syndromicsurveillance.org/nssp_essence

Please note that reported weekly data are preliminary and may change due to delayed submissions or additional laboratory testing.

COVID-like illness (CLI)

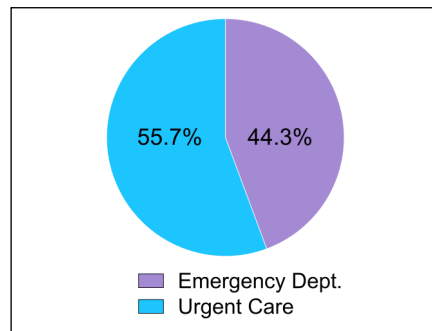
**Figure 7: CLI Surveillance
Quad-County Region
(CDC Weeks 40-42, 2024)**

ESSENCE CLI Detection Level:

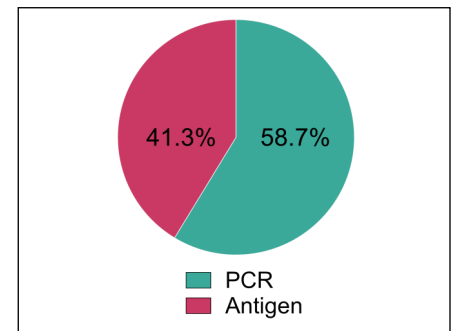
GREEN

Number of actual visits was less than expected based on previous years.

**Figure 8: CLI by Facility Type,
Quad-County Region
(CDC Weeks 40-42, 2024)**



**Figure 9: COVID-19 by Test Type,
Quad-County Region
(CDC Weeks 40-42, 2024)**



Data source: https://essence.syndromicsurveillance.org/nssp_essence

**Table 6: COVID-19 by Age,
(CDC Weeks 40-42, 2024)**

Age Group	Population	Cases	Rate/100K
0-4	8,433	5	59.3
5-24	36,783	10	27.2
25-49	51,942	28	53.9
50-64	39,230	45	114.7
65+	44,886	79	176.0

Data represents the Quad-County Region.

**Table 7: COVID-19 by Race/Ethnicity,
(CDC Weeks 40-42, 2024)**

Race/Ethnicity	Population	Cases	Rate/100K
Am. Indian/AK Native	4,622	2	42.8
Asian/PI	4,381	3	67.5
Black/African Am.	1,948	0	0.0
White	131,951	142	104.2
Hispanic or Latino	33,603	25	73.8

Data represents the Quad-County Region. Am. = American, AK = Alaskan, PI = Pacific Islander.

**Table 8: COVID-19 by Vaccination Status, Hospitalization, ICU Admission, and Death
(CDC Weeks 40-42, 2024)**

	Current Report (CDC Weeks 40-42, 2024)								Cumulative for 2024-25 Season							
	Hosp.		Vax		ICU		Death		Hosp.		Vax		ICU		Death	
	#	%	#	%	#	%	#	%	#	%	#	%	#	%	#	%
Carson City	2	1.2	0	0.0	0	0.0	0	0.0	2	1.2	0	0.0	0	0.0	0	0.0
Douglas County	2	1.2	0	0.0	0	0.0	0	0.0	2	1.2	0	0.0	0	0.0	0	0.0
Lyon County	4	2.4	0	0.0	0	0.0	0	0.0	4	2.4	0	0.0	0	0.0	0	0.0
Storey County	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0

Percentage represents proportion of total cases in Carson City, Douglas County, Lyon County, and Storey County.

Respiratory Syncytial Virus (RSV)

Overview:

Respiratory syncytial virus (RSV) is a contagious virus that infects the respiratory tract, including the nose, throat, and lungs. It's a common cause of respiratory illness in people of all ages, but it can be more serious for infants, older adults, and people with weakened immune systems.

- No RSV cases were reported during CDC Week 40-42.

Please note that reported weekly data are preliminary and may change due to delayed submissions or additional laboratory testing.

Pneumonia, Influenza, and COVID-19 (PIC) Mortality

Overview:

The percentage of deaths that occur each week due to pneumonia, influenza, and/or COVID-19 (PIC) is obtained from the National Center for Health Statistics Mortality Surveillance (NCHS).

- ◆ % of total deaths due to PIC in Week 41*.
 - ⇒ National = 6.4%
 - ABOVE the national baseline of 5.9%.
 - EQUAL to the epidemic threshold of 6.4%.
 - ⇒ Nevada = 8.0%
 - ABOVE the national baseline and epidemic threshold.
 - ◆ Influenza deaths = 0
 - ◆ COVID-19 deaths = 1
 - ◆ Pneumonia deaths = 6

Key Messages

- Routine annual influenza and COVID-19 vaccinations are recommended for all persons ≥ 6 months of age and without contraindications. This includes individuals who have previously received influenza or COVID-19 vaccines.
- Routine annual RSV vaccinations are recommended for all adults ≥ 75 years of age and for adults 60-74 years of age at increased risk of RSV disease.

Additional Information

For more information regarding influenza surveillance throughout Nevada, please visit:

- Carson City Health and Human Services (CCHHS)
<https://www.gethealthycarsoncity.org/services/disease-health-topics/influenza>
- Northern Nevada Public Health (NNPH):
<https://www.nnph.org/programs-and-services/ephp/communicable-diseases-and-epidemiology/programs/Influenza%20Surveillance.php>
- Central Nevada Health District (CNHD):
<https://www.centralnevadahd.org/communicable-disease-and-surveillance/>
- Southern Nevada Health District (SNHD):
<http://southernnevadahealthdistrict.org/stats-reports/influenza-surveillance.php>
- The Office of State Epidemiology (OSE):
<https://nvose.org/data-statistics/>

*Week 42 data not yet available from the NCHS.

Please note that reported weekly data are preliminary and may change due to delayed submissions or additional laboratory testing.