

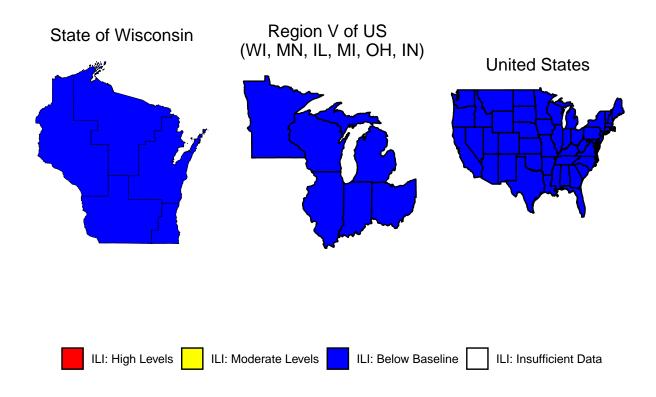


# Respiratory Virus Surveillance Report Week 37, Ending September 14, 2024

Wisconsin Department of Health Services | Division of Public Health | Bureau of Communicable Diseases | Communicable Diseases Epidemiology Section | www.dhs.wisconsin.gov/dph/bcd.html | dhsdphbcd@dhs.wi.gov

P-02346

## Influenza-like Illness (ILI) Activity



## Weekly Respiratory Virus Data, At-A-Glance

### Predominant virus of the week:

Rhinovirus/Enterovirus

#### **Key Findings:**

- Week 36 (ending on September 7, 2024) is the first week of the 2024-2025 respiratory season.
- Emergency department (ED), laboratory testing, hospitalization, and wastewater data all show that COVID-19 activity is elevated.
- ED visit data show that COVID-19 activity is highest among children under 5 years and people 65 years and older.
- Influenza and RSV continued to circulate at low levels in Wisconsin.

#### Influenza-associated pediatric deaths reported:

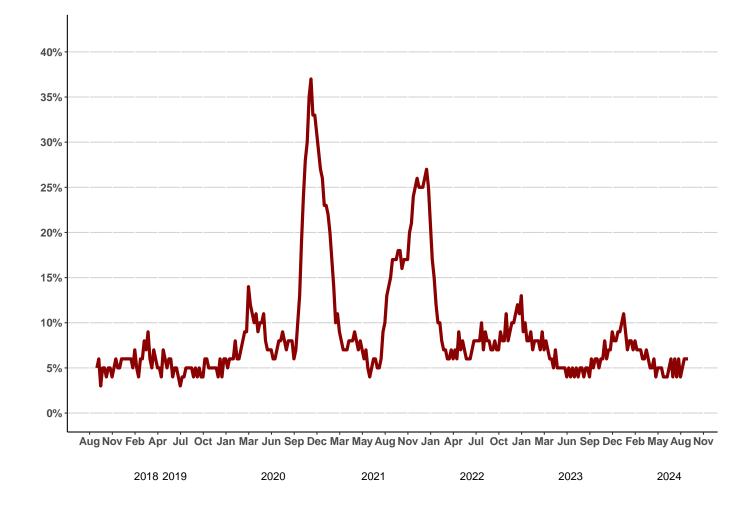
	Week 37, 2024	Since Sep 1, 2024
Wisconsin	0	0
Nationwide	0	0

For National US influenza surveillance statistics visit: www.cdc.gov/flu/weekly/



# Respiratory Virus and Pneumonia-Associated Mortality

Percent of deaths associated with influenza, RSV, COVID-19, or pneumonia by week, Vital Records



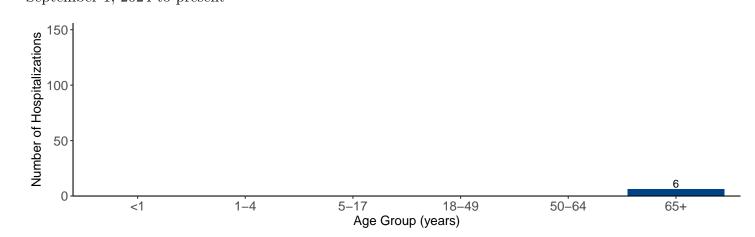
Respiratory virus and pneumonia associated deaths by most recent 3-week period, Vital Records

Season week	Pneumonia (P)	Influenza (I)	COVID-19 (C)	RSV (R)	P, I, C or R	Percent PICR of all
35	44	0	20	0	57	6%
36	50	1	16	0	60	6%
37	33	1	14	0	44	6%

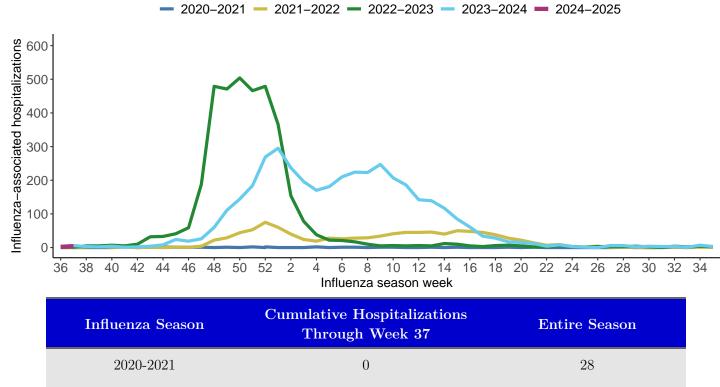


## Influenza-Associated Hospitalizations

Influenza-associated hospitalizations by age group, WEDSS September 1, 2024 to present



### Weekly influenza-associated hospitalizations by influenza season, WEDSS



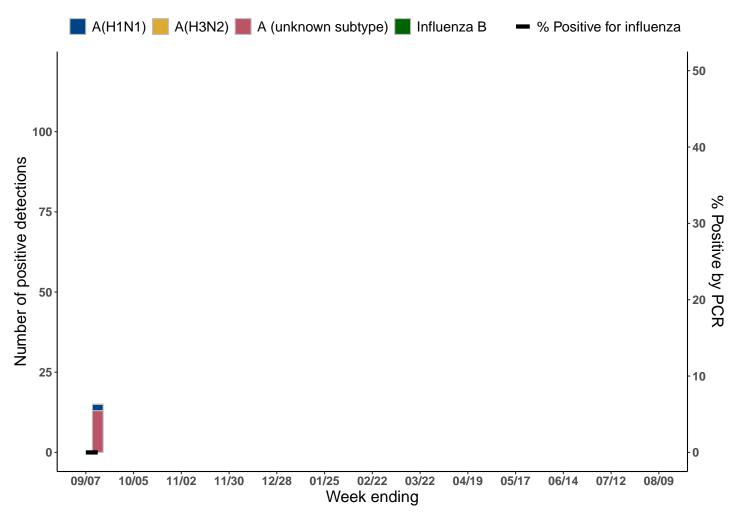
2021-2022	0	1021
2022-2023	2	3610
2023-2024	10	3948
2024-2025	6	-

These data are preliminary and subject to change as more information is received.



## Wisconsin Laboratory Surveillance

### Wisconsin positive influenza results and subtypes by PCR, NREVSS



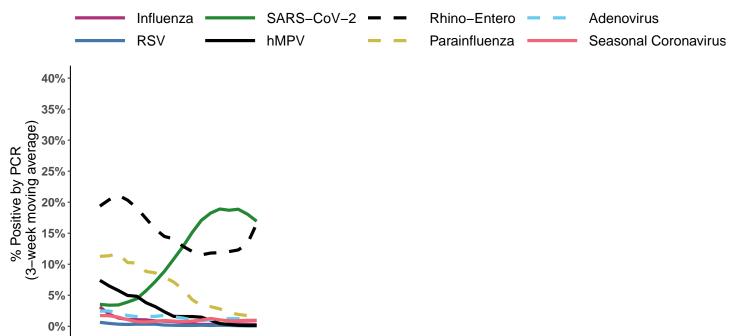
### Cumulative number of positive influenza PCR tests by subtype, NREVSS September 1, 2024 to present

Measure	Influenza A(H1N1)pdm2009	Influenza A(H3N2)	Influenza A Unknown	Influenza B	Total
Total positive (n)	2	1	31	0	34
% of total positive	6%	3%	91%	0%	100%



### Wisconsin Laboratory Surveillance for Respiratory Viruses

Percent postivity of respiratory viruses tested by PCR, NREVSS



05/18 06/15 07/13 08/10 09/07 10/05 11/02 11/30 12/28 01/25 02/22 03/22 04/19 05/17 06/14 07/12 08/09 Week ending

Number and percent positivity of respiratory viruses tested by PCR, NREVSS Week 37, Ending on September 14, 2024

Respiratory virus	Tested	Positive (n)	Positive (%)	H3N2	2009 H1	N1 Unknov	wn Influenza B
Influenza	6,495	15	0.2%	0	2	13	0
Respiratory virus	Tested	Positive (n)	Positive (%)	Parainfluenz 1	a Parainfluc 2	enza Parainflu 3	enza Parainfluenza 4
Parainfluenza	875	7	0.8%	1	0	2	4
	Res	piratory vi	rus	Tested F	Positive (n)	Positive (%)	
	Respiratory Syncytial Virus Adenovirus Seasonal Coronavirus		5,791	3	0.1%		
			903	9	1%		
			845	5	0.6%		
	HMPV		884	3	0.3%		
	Rhinovirus/Enterovirus		1,300	283	21.8%		



COVID-19

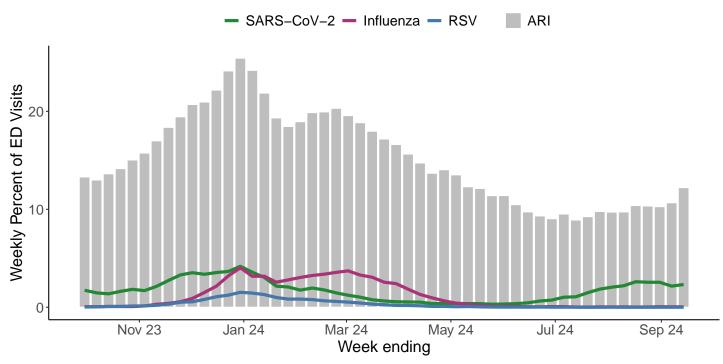
8,362

1,268

15.2%

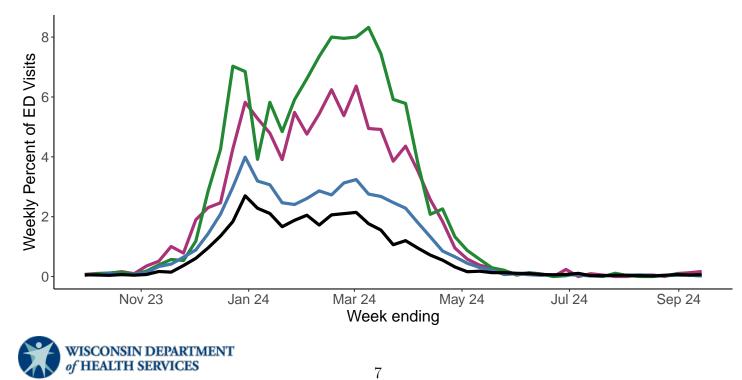
## Respiratory Virus Activity in the Emergency Department (ED)

Percent of ED visits with a diagnosis for a respiratory virus or acute respiratory infection (ARI), NSSP

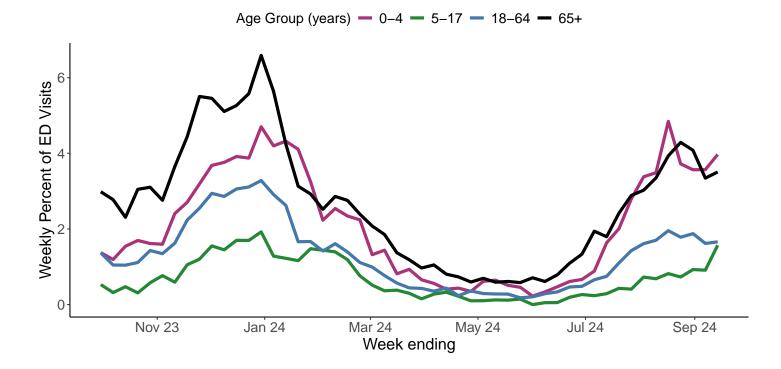


Percent of ED visits with a diagnosis for influenza by age group, NSSP

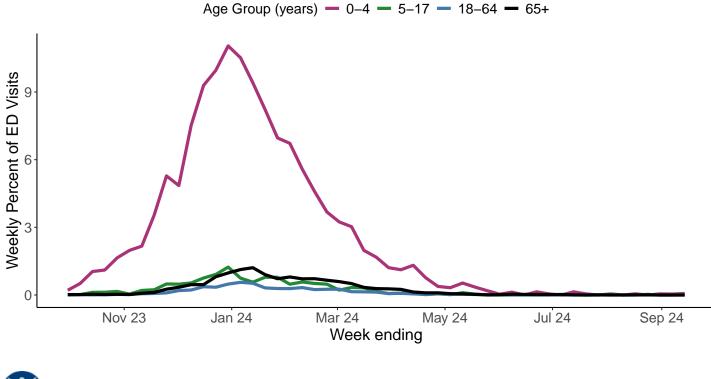
Age Group (years) - 0-4 - 5-17 - 18-64 - 65+



Percent of ED visits with a diagnosis for SARS-CoV-2 by age group, NSSP



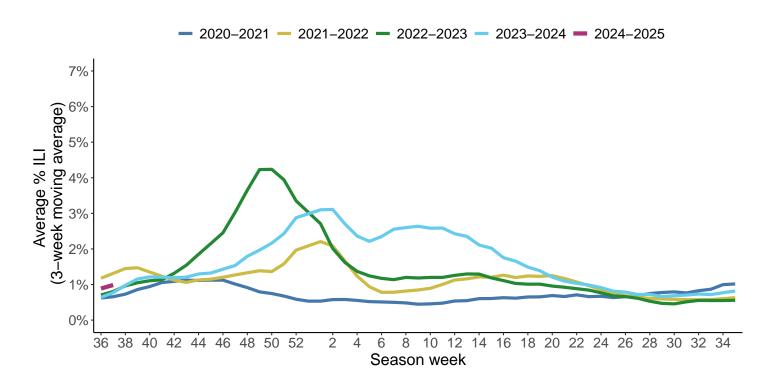
Percent of ED visits with a diagnosis for RSV by age group, NSSP



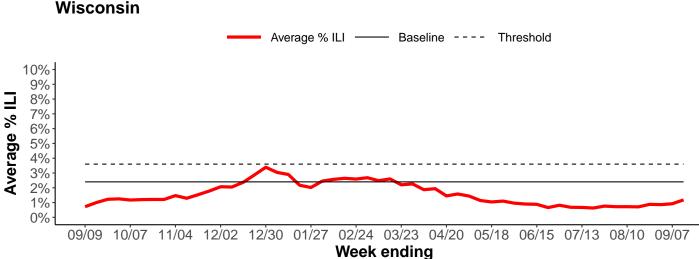


## Wisconsin ILI Activity

Three-week average percent of visits for ILI by influenza season, ILINET



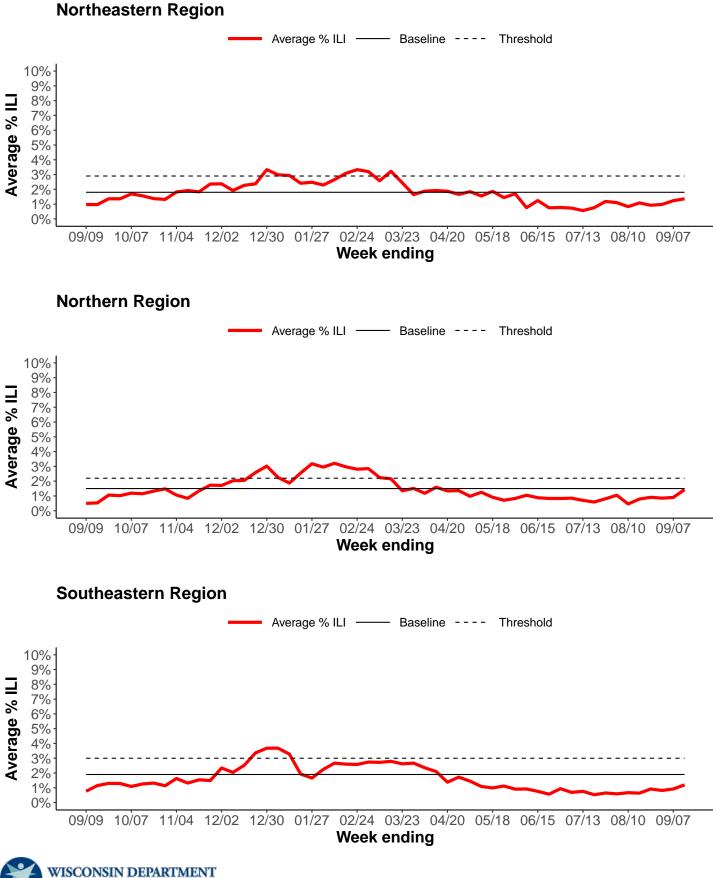
Average percent of visits for ILI by public health region, ILINET



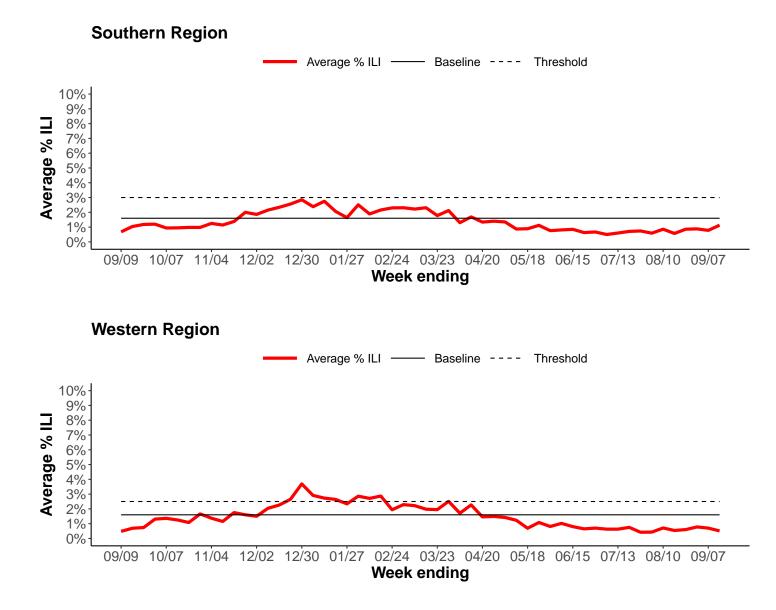
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# Understanding the Data

### Surveillance Report Description

Influenza-like Illness (ILI)	Patients who present to a clinician with a fever $>=100$ degrees F and either a cough or sore throat.		
Influenza-like Illness (ILI) Activity	Using baseline (expected value data used for comparision) in each of the public health regions in Wisconsin (https://www.dhs.wisconsin.gov/lh-depts/counties/index.htm), ILI below baseline is considered low activity, ILI between baseline and threshold levels is considered moderate activity and above threshold is considered high activity. (1)		
Acute Respiratory Illness (ARI)	ARI is a broad definition designed to capture all diagnoses related to respiratory illness, including SARS-CoV-2, influenza, pneumonia, and cough		
Predominant virus of the week	These data are compiled from over 40 laboratories in Wisconsin that perform rt-PCR testing, and shows the viruses that have the highest percentage of positive tests.(2)		
Influenza-Associated Pediatric Mortality	Deaths among children $<18$ years old, with influenza as the cause of associated cause of death. This is a state and nationally reportable condition. (3)		
Deaths Due to Pneumonia, SARS-CoV-2, Influenza and RSV	Proportion of deaths due to pneumonia, RSV, influenza, and SARS-CoV-2 are extracted from Vital Records managed by the Office of Health Informatics through ICD-10 codes and death certificate text searches. (4)		
Respiratory Viruses by PCR	A molecular laboratory method used to detect nucleic acid (DNA/RNA) in viruses, including influenza and RSV.		
Influenza-Associated Hospitalizations	Patients hospitalized for >24 hours with a laboratory-identified (by rapid antigen or rt-PCR tests) influenza.(3)		
Emergency Department Data	These data are from the National Syndromic Surveillance Program or NSSP. Visit information from almost all EDs in Wisconsin are reported from hospital electronic medical records to NSSP in near-real-time. Diagnoses used included the CDC Broad Acute Respiratory DD v1, the CDC COVID-Specific DD v1, CDC Influenza DD v1, and the CDC Respiratory Syncytial Virus DD v1.(5)		

### Additional Resources

- The CDC Influenza Homepage (https://www.cdc.gov/flu/)
- The National Respiratory and Enteric Virus Surveillance System (NREVSS) (https://www.cdc.gov/surveillance/nrevss/index.html)

### Data Sources

- 1. CDC Outpatient Influenza-like Illness Surveillance Network (ILINet)
- 2. Wisconsin Laboratory Information Network and CDC National Respiratory and Enteric Virus Surveillance System (NREVSS)
- 3. Wisconsin Electronic Disease Surveillance System (WEDSS)
- 4. Division of Public Health, Office of Health Informatics, Vital Records
- 5. National Syndromic Surveillance Program (NSSP) data from ESSENCE (Electronic Surveillance System for Early Notification of Community Based Epidemics).

