# Weekly Influenza & Respiratory Illness Activity Report

## Week Ending Dec. 23, 2023 | WEEK 51

A summary of influenza surveillance indicators prepared by the Division of Infectious Disease Epidemiology Prevention & Control.

All data are preliminary and may change as more information is received.

Minnesota Influenza Key Statistics		
Percent of molecular laboratory tests positive	12.0%	
Hospitalizations	448	
Most common strain	Influenza A	
School outbreaks	49	
Long-term care outbreaks	11	
Pediatric influenza-associated deaths	0	

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Minnesota Influenza Surveillance (www.health.state.mn.us/diseases/flu/stats/)

Weekly U.S. Influenza Surveillance Report (www.cdc.gov/flu/weekly/)

World Health Organization (WHO) Surveillance (www.who.int/teams/global-influenza-programme/

surveillance-and-monitoring/influenza-surveillance-outputs)

Neighboring states' influenza information:

Iowa: Iowa Flu Reports (idph.iowa.gov/influenza/reports)

Wisconsin: Influenza (Flu) (https://dhs.wisconsin.gov/influenza/index.htm)

North Dakota: Reported Seasonal Influenza Activity in North Dakota (www.ndflu.com/default.aspx)

South Dakota: South Dakota Influenza Information (doh.sd.gov/diseases/infectious/flu/)

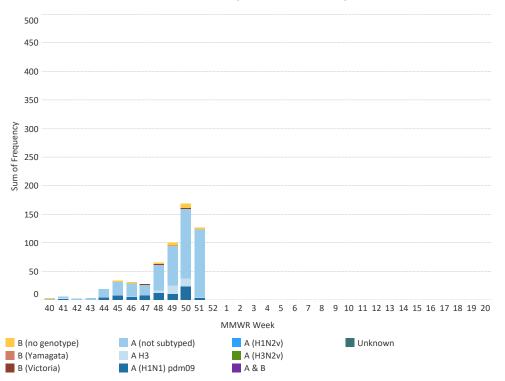
Due to the COVID-19 pandemic, CDC and MDH will not be posting the weekly geographic spread indicators (no activity, sporadic, local, regional, widespread) this season as they rely on influenza-like illness data (ILI). Because these data are based on symptoms, the cause of ILI cannot reliably be attributed to influenza while COVID-19 is widely circulating.



### **Hospitalized Influenza Surveillance**

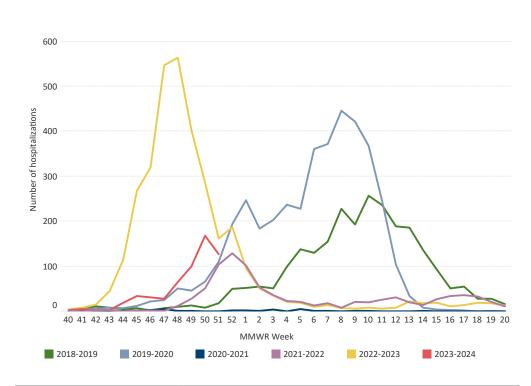
Hospitalized influenza cases are based on disease reports of laboratory-positive influenza (via DFA, IFA, viral culture, EIA, rapid test, paired serological tests or RT-PCR) and specimens from hospitalized patients with acute respiratory illness submitted to MDH-PHL by hospitals and laboratories. Due to the need to confirm reports and reporting delays, consider current week data preliminary.

### Hospitalized Influenza Cases by Type, Minnesota (FluSurv-NET\*)



Hospitalizations this week	Hospitalizations last week	Total hospitalizations (to date)
127	168	585

### Hospitalized Influenza Cases by Season, Minnesota (FluSurv-NET\*)

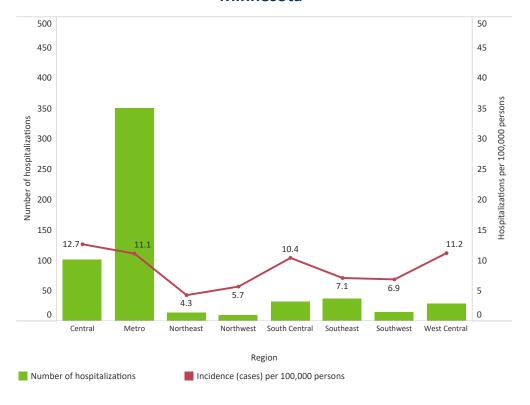


Season	Total hospitalizations (historic)
2018-2019	2543
2019-2020	4022
2020-2021	35
2021-2022	905
2022-2023	3,338
2023-2024 (to date)	585

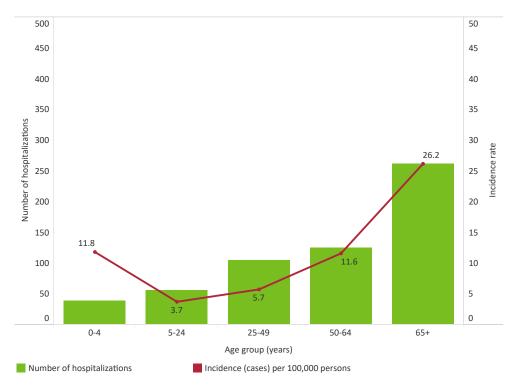
<sup>\*</sup>FluSurv-NET = Influenza Surveillance Network

### **Hospitalized Influenza Surveillance (continued)**

### Number of Influenza Hospitalizations and Incidence by Region, Minnesota



# Number of Influenza Hospitalizations and Incidence by Age, Minnesota



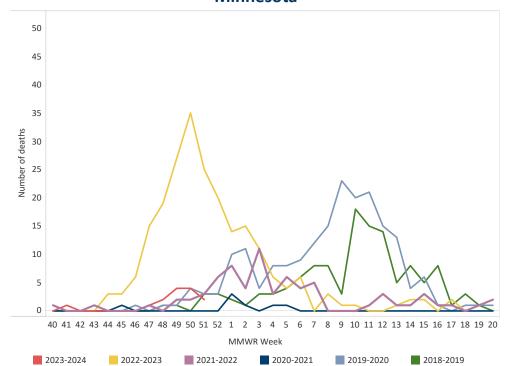
Region	Hospitalizations this week	Total (to date)	% Hospitalizations this week	% Total (to date)
Central	20	101	16%	17%
Metro	81	350	64%	60%
Northeast	1	14	1%	2%
Northwest	0	9	0%	2%
South Central	9	31	7%	5%
Southeast	6	37	5%	6%
Southwest	4	15	3%	3%
West Central	6	28	5%	5%

Median age (years) at time of admission	
62	

### Influenza-Associated Death Surveillance

Influenza deaths are collected via reports from Minnesota's death certificate database, hospitals, and long-term care facilities. Decedents with influenza listed as a cause of or contributor to death, have recent laboratory confirmation of influenza, or are part of an ongoing influenza outbreak at a long-term care facility are reported to influenza surveillance. Due to the need to confirm reports and reporting delays, consider current week data preliminary.

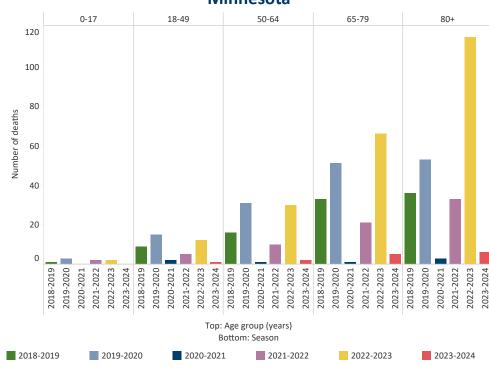
#### Deaths Associated with Influenza by Season, Minnesota



Season	Total deaths	Total pediatric (<18 years) deaths
2018-2019	126	1
2019-2020	197	3
2020-2021	7	0
2021-2022	71	2
2022-2023	224	2
2023-2024 (to date)	14	0

#### \*FluSurv-NET = Influenza Surveillance Network

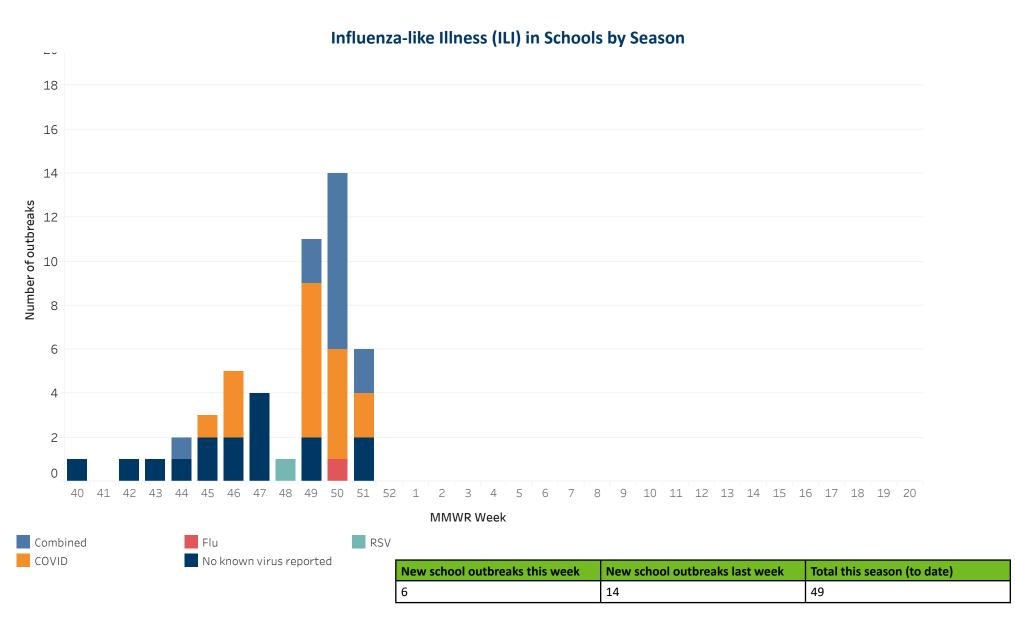
# Deaths Associated with Influenza by Age Group and Season, Minnesota



Season	Median age (years) at time of death
2018-2019	75
2019-2020	73
2020-2021	76
2021-2022	77
2022-2023	80
2024-2024 (to date)	72

## Respiratory Disease Outbreak Surveillance: School Outbreaks

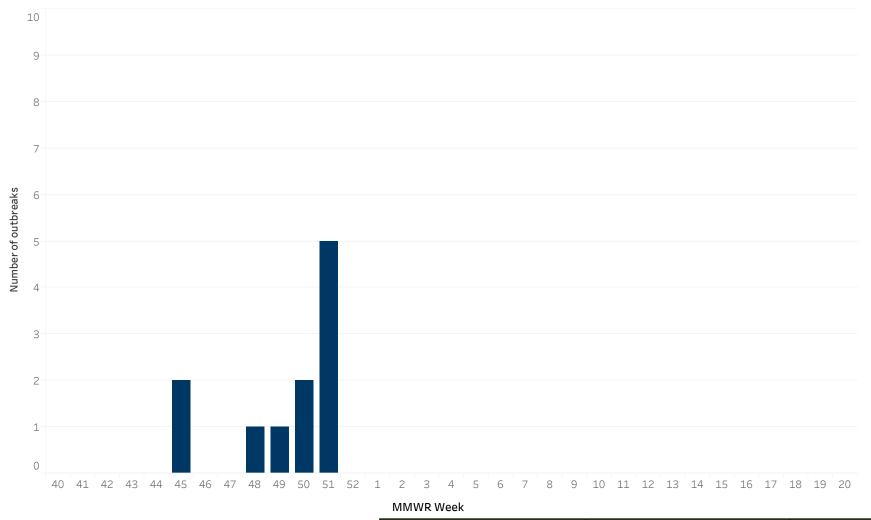
K-12 schools report an outbreak of acute respiratory illness (ARI; e.g. COVID-19, influenza, RSV) when the number of students absent with ARI reaches 10% of the facility's total enrollment.



### Respiratory Disease Outbreak Surveillance: LTC Outbreaks

Long-Term Care (LTC) facilities report to MDH when they have a lab-confirmed influenza or RSV outbreak in their facility. The definition of an outbreak is at least 2 cases of laboratory-confirmed influenza (or RSV) identified within 72 hours of each other in residents on the same unit.

#### **Confirmed Influenza Outbreaks in LTC by Season**

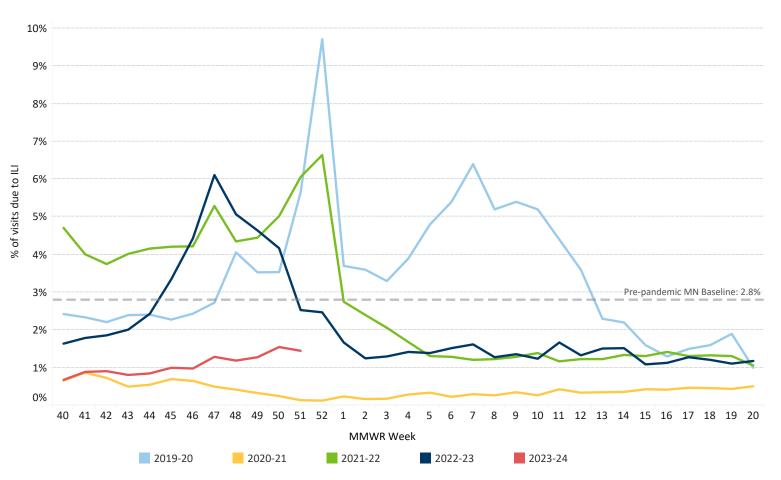


New LTC outbreaks this week	New LTC outbreaks last week	Total this season (to date)
5	2	11

# **Sentinel Provider Surveillance (Outpatients)**

MDH collaborates with healthcare providers who report the total number of patients seen and the total number of those patients presenting to outpatient clinics with influenza-like illness.

#### Percentage of Persons Presenting to Outpatient Clinics with Influenza-Like Illness (ILI)



<sup>\*</sup> Indicates current week-data may be delayed by 1 or more weeks

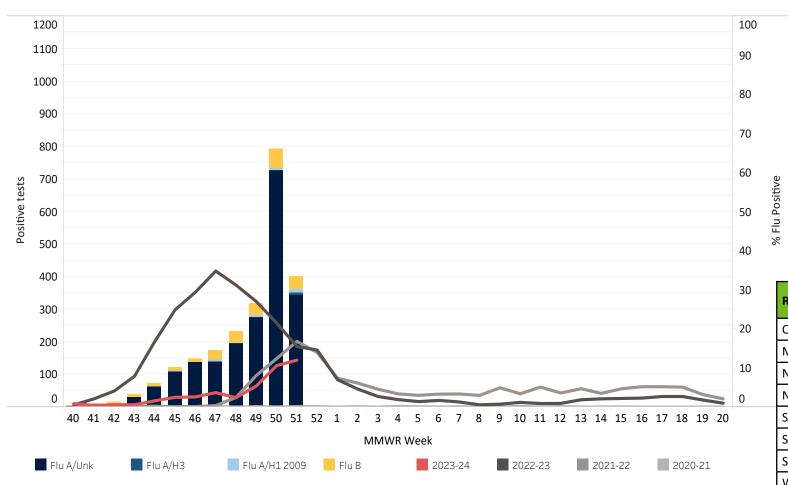
MN Baseline valid for 2020-21 season only, do not compare it with previous seasons. The baseline is calculated by averaging the ILI percent for non-influenza weeks over the previous four seasons and adding two standard deviations. Non-influenza weeks account for less than 2% of the season's total flu-positive specimens tested at Public Health Labs in HHS Region 5. Weeks where ILI % is above baseline reflect weeks with excess health care visits due to ILI.

% of outpatients with ILI this week	% of outpatients with ILI last week
1.5%	1.6%

### **Laboratory Surveillance**

The MN Lab System (MLS) Laboratory Influenza Surveillance Program is made up of more than 310 clinic- and hospital-based laboratories, voluntarily submitting testing data weekly. These laboratories perform antigen and molecular testing for influenza and Respiratory Syncytial Virus (RSV). A subset of labs also performs PCR testing for other respiratory viruses. MDH-PHL provides further characterization of submitted influenza isolates to determine the hemagglutinin serotype to indicate vaccine coverage. Tracking the laboratory results assists healthcare providers with patient diagnosis of influenza-like illness and provides an indicator of the progression of the influenza season as well as prevalence of disease in the community.

#### Specimens Positive for Influenza by Molecular Testing\*, by Week

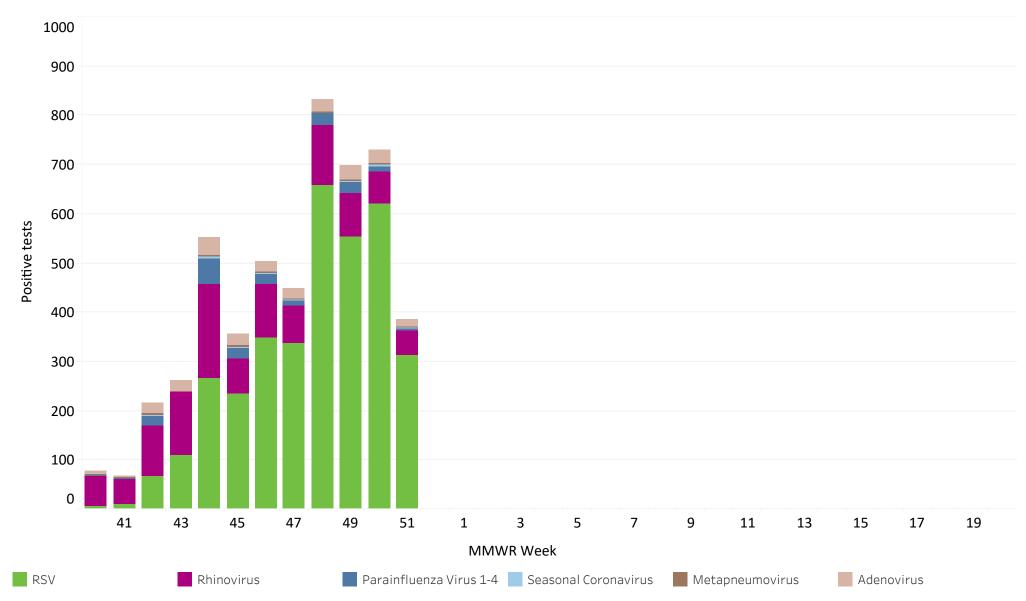


Region	% molecular influenza tests + this week
Central	5.3%
Metro	11.1%
Northeast	10.0%
Northwest	
South Central	22.8%
Southeast	15.4%
Southwest	26.6%
West Central	13.8%
Statewide (overall)	12.0%

### **Laboratory Surveillance (continued)**

Some participants in the MN Lab System (MLS) Laboratory Influenza Surveillance Program also report testing data from respiratory virus panel PCR testing. Tracking these laboratory results assists monitoring for non-influenza/non-COVID viruses that may be circulating and causing influenza-like illness.

### Other Molecular Testing Results by Virus from MLS Survey



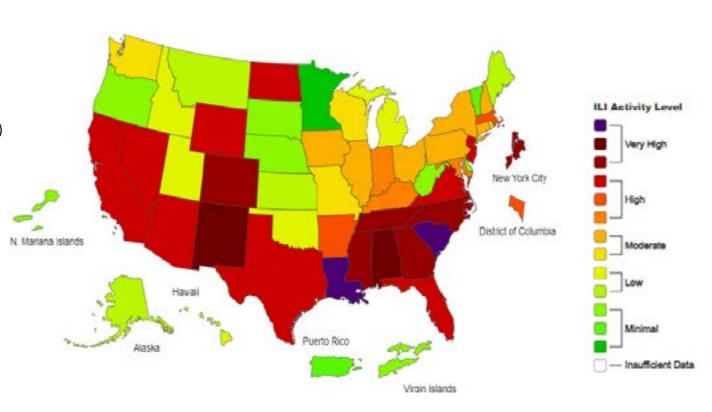
## Weekly U.S. Influenza Surveillance Report

### Week 50, ending December 16, 2023

Seasonal influenza activity is elevated and continues to increase in most parts of the country.

- Outpatient respiratory illness is above baseline nationally for the seventh consecutive week and is above baseline in all 10 HHS Regions.
- The number of weekly flu hospital admissions continues to increase.
- During Week 50, of the 1,050 viruses reported by public health laboratories, 860 (81.9%) were influenza A and 190 (18.1%) were influenza B. Of the 481 influenza A viruses subtyped during week 50, 376 (78.2%) were influenza A(H1N1) and 105 (21.8%) were A(H3N2).
- CDC estimates that there have been at least 5.3 million illnesses, 54,000 hospitalizations, and 3,200 deaths from flu so far this season.
- CDC recommends that everyone 6 months and older get an annual flu vaccine, as there are still vaccines available. Now is still a good time to get vaccinated if you haven't already.
- There also are prescription flu antiviral drugs that can be used to treat flu illness; those should be started as early as possible and are especially important for higher risk patients.
- Flu viruses are among several viruses that contribute to respiratory disease activity. CDC is providing updated, integrated information about COVID-19, flu, and RSV activity on a weekly basis.

#### **Outpatient Illness: ILINet Activity Map**



CDC National Influenza Surveillance (http://www.cdc.gov/flu/weekly/)