

# Milwaukee Respiratory Virus Surveillance Update

## MMWR Week 38, Ending September 21, 2024

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## Overview

### County

- There were 1 influenza-associated hospitalizations reported in Milwaukee County during the week ending on September 21, 2024. From October 1, 2023 through September 21, 2024, there have been 698 reported influenza-associated hospitalizations in Milwaukee County (533 City of Milwaukee residents).

### State

- Emergency department (ED), laboratory testing, hospitalization, and wastewater data all show that COVID-19 activity is elevated.
- ILI activity is increasing in Wisconsin, though it remains below baseline.
- Influenza and RSV continued to circulate at low levels in Wisconsin.

### National

- Seasonal influenza activity remains low nationally.
- 1 influenza-associated pediatric deaths occurred during this week.
- Influenza A (H1N1)pdm09 and A(H3N2) were co-circulating this week.

**Influenza Vaccine Composition 2022-2023 Influenza Season** All standard-dose flu shots will be quadrivalent (no trivalent standard-dose flu shots will be available this season). The quadrivalent vaccines for use in the 2023-2024 influenza season contain the following:

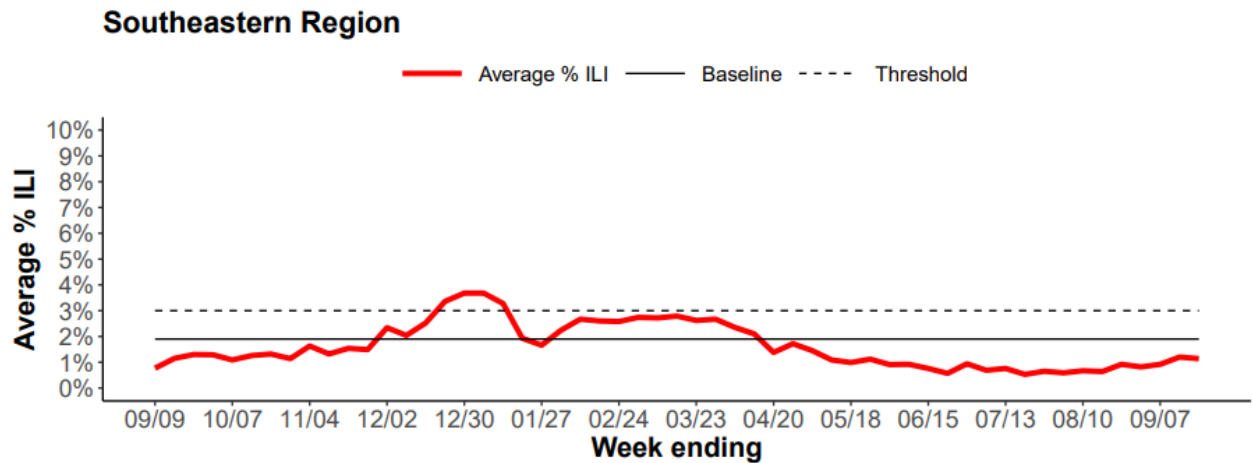
- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

### CDC Pediatric Data (Since Week 40)

2023-24 To Date: Total Deaths	2022-23 To Date: Total Deaths	Pediatric Deaths This Week	Notes on Deaths
200	187	1	One influenza-associated pediatric death occurring during the 2023-2024 season was reported to CDC during week 38. The death was associated with an influenza A virus for which subtyping was not performed and occurred during Week 31 (the week ending August 3, 2024).

## Statewide and Regional Influenza Activity

Influenza-like illness levels were below baseline statewide and below baseline in the southeastern region of the state.

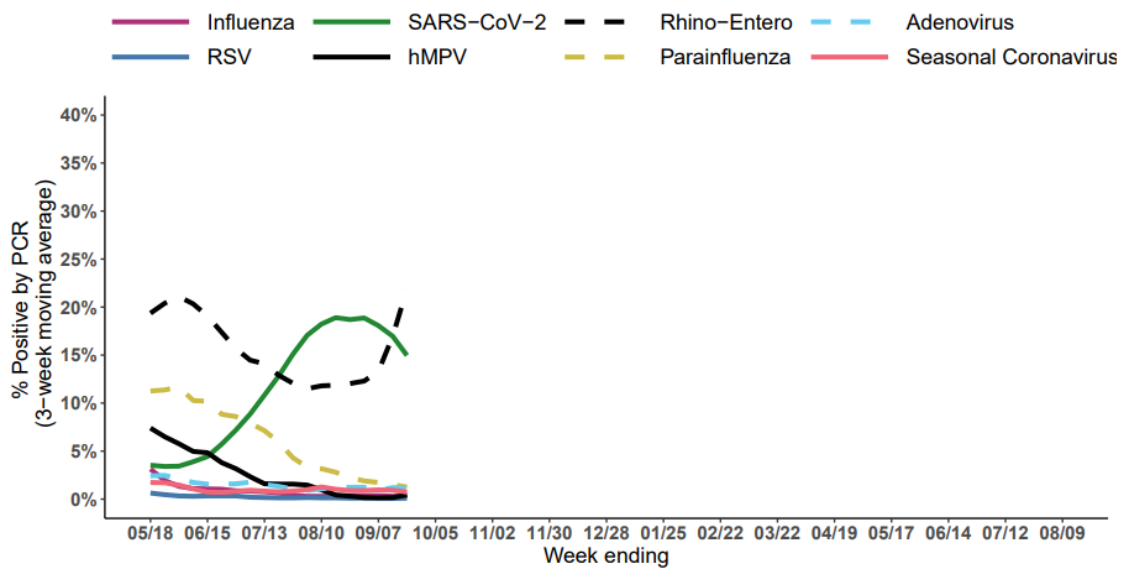


Wisconsin Department of Health Services Respiratory Virus Surveillance Report, September 21, 2024

## Respiratory Virus Laboratory Surveillance

### Wisconsin Laboratory Surveillance for Respiratory Viruses

Percent positivity of respiratory viruses tested by PCR, NREVSS

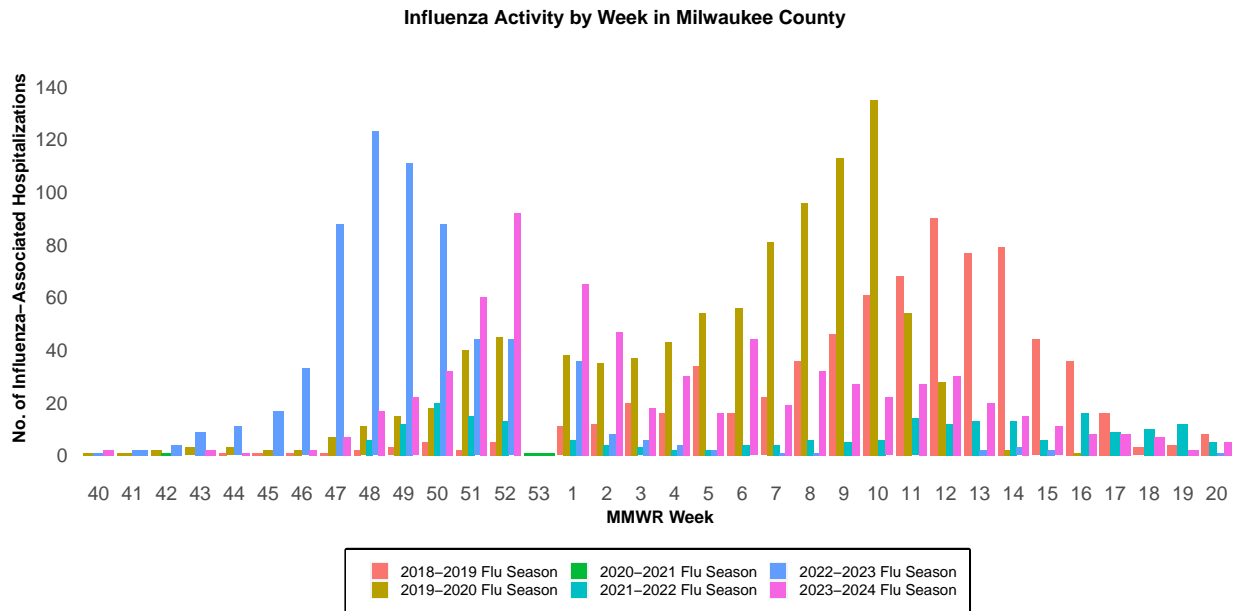


Wisconsin Department of Health Services Respiratory Virus Surveillance Report, September 21, 2024

## Milwaukee County Influenza Activity

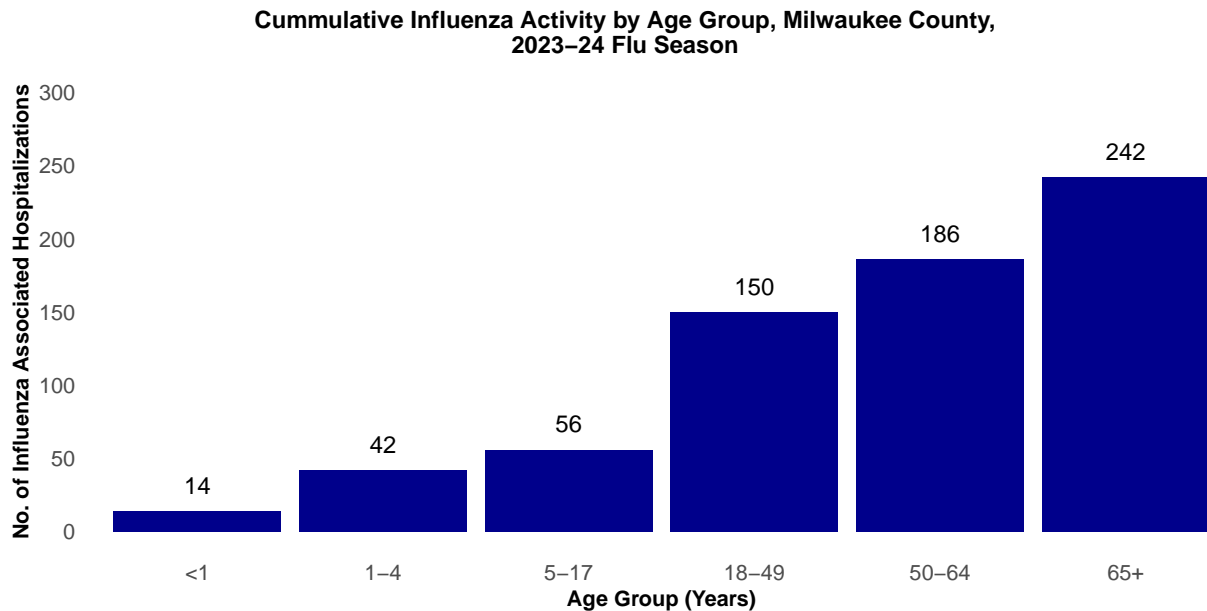
From October 1, 2023 through September 21, 2024 there have been 698 reported influenza-associated hospitalizations in Milwaukee County.

### Milwaukee County Influenza-Associated Hospitalizations



\*Flu activity was unusually low in the 2020-2021 flu season, despite high levels of testing. COVID-19 mitigation measures such as wearing face masks, social distancing, staying home, and school closures, in addition to flu vaccination, likely contributed to the low flu activity during this season.

### Milwaukee County Influenza-Associated Hospitalizations by Age Group MMWR Week 40, 2023 through Week 38, 2023



## Influenza Testing Data

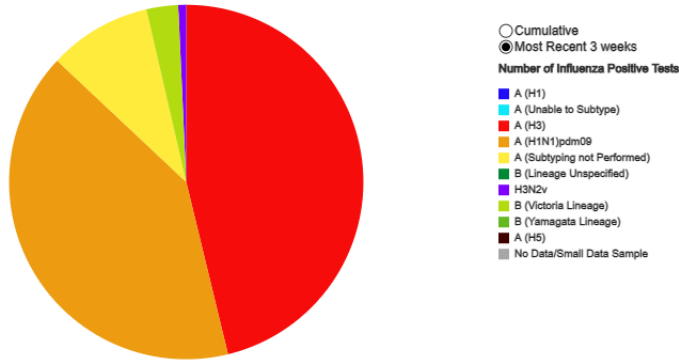
### Public Health Laboratory Influenza Testing Data To-Date (Since Week 40)

Lab	Number Tested to date	Number Positive to date	Most Recent Week Percent Positive	Predominant A Subtype and Strain	Predominant B Strain	Predominant Type (A or B)
CDC	4,101,482	352,669	267/46,909 (0.1%)	(H1N1)pdm09	Victoria	A
WSLH	-	-	42/7,117 (0.6%)	Unknown	Unknown	A
MHDL	5	0	0/5 (0%)	Unknown	Unknown	Unknown

### National Influenza Testing Data, CDC FluView

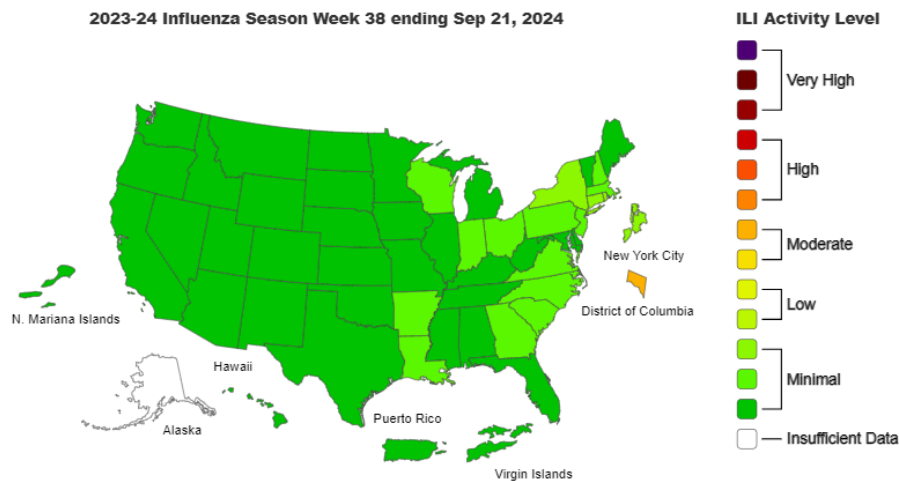


Influenza Positive Tests Reported to CDC by Public Health Laboratories, National Summary, 2023-24 Season, week ending Sep 14, 2024  
Reported by: U.S. WHO/NREVSS Collaborating Laboratories and ILINet

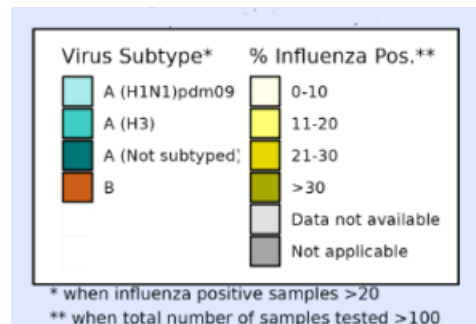
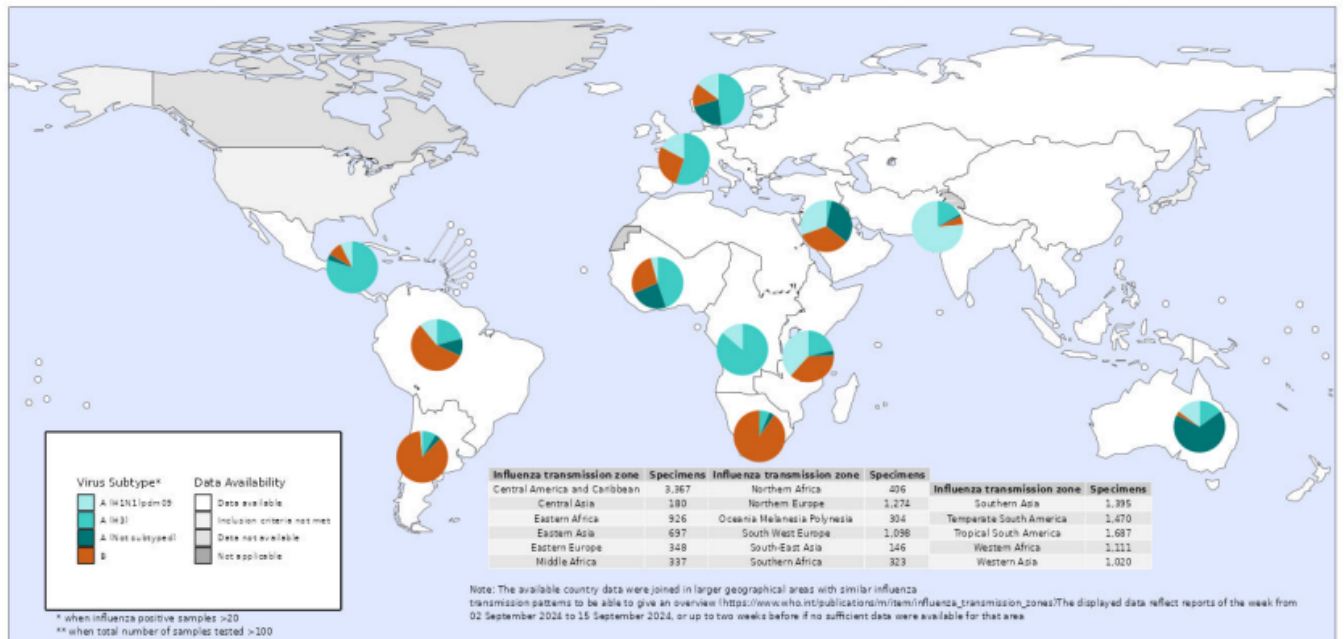


## National Influenza Activity

### Outpatient Respiratory Illness Activity Map, CDC FluView



## Global Influenza Activity

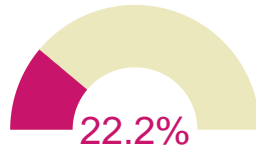


- In the Northern hemisphere, influenza activity in temperate countries remained at interepidemic levels. Activity was elevated in Western Africa (due to A(H3N2) and B viruses), Middle Africa (due to A(H3N2) viruses), Western Asia (due to A(H1N1)pdm09 and B viruses), Southern Asia (due to A(H1N1)pdm09 viruses), South East Asia (due to A(H1N1)pdm09 viruses) and Central America and the Caribbean (due to A(H3N2) viruses). Activity continued to increase in a few countries in Central America, Western and Middle Africa, and Southern Asia
- SARS-CoV-2 activity remained elevated in many countries in Europe and a few countries in Central America and the Caribbean, Western Asia, and Eastern Asia. Activity decreased or was similar compared with the prior report in Europe and increased in a few reporting countries in Central America and the Caribbean and Western Africa.

# Influenza Vaccination Uptake by City of Milwaukee Residents, 2023-2024 Season

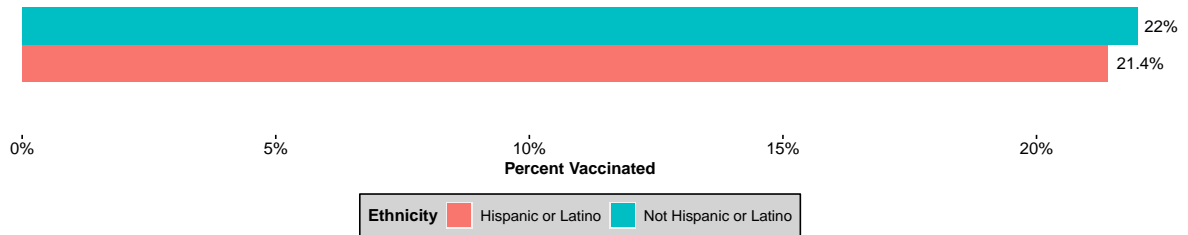
## Overview

- City of Milwaukee residents who have received at least one dose of flu vaccinations as of September 27, 2024:

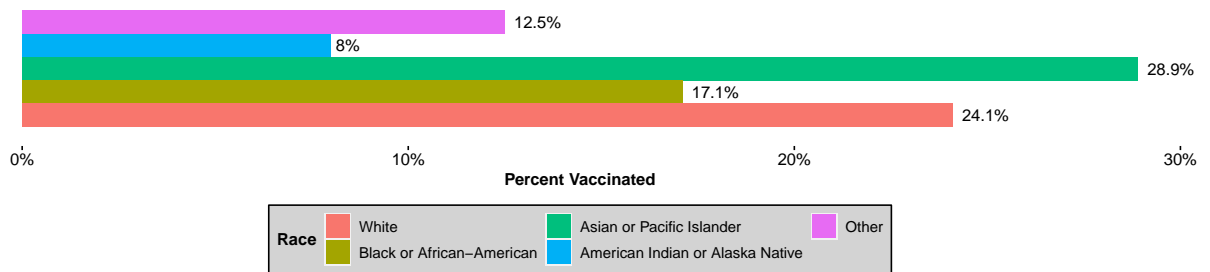


## Influenza Vaccination Coverage for 2023-2024 Season by Demographics

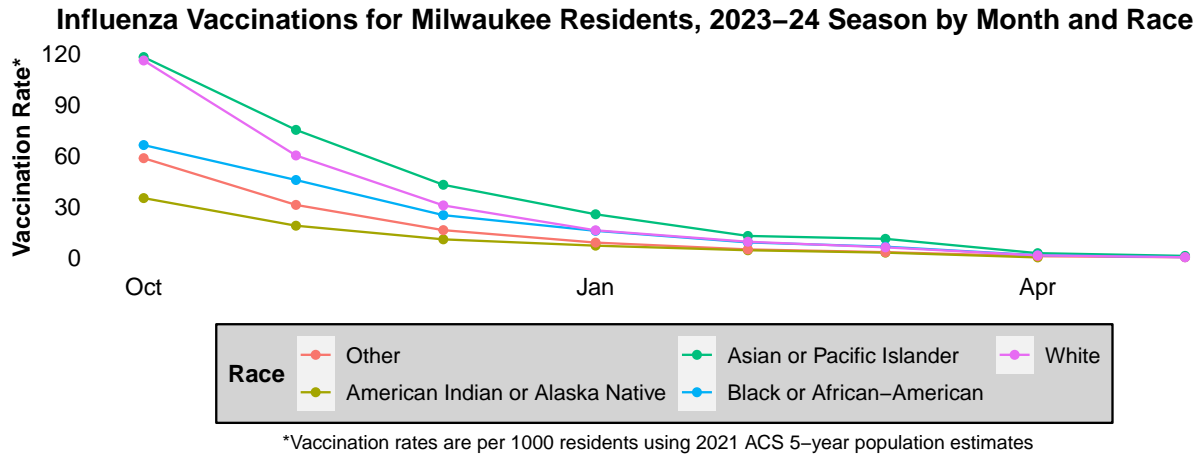
### Influenza Vaccinations by Ethnicity



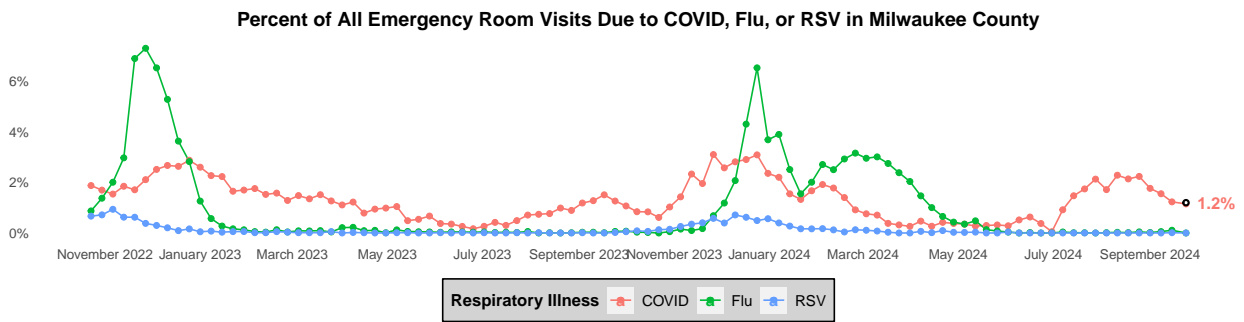
### Influenza Vaccinations by Race



## Vaccination Uptake Timelines



## Respiratory Illness Emergency Department Visits in Milwaukee County

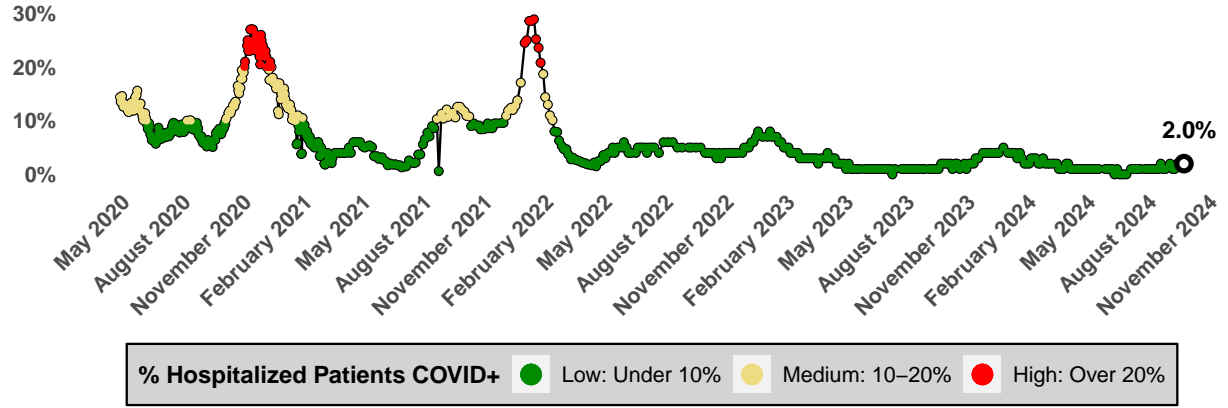




## COVID-19 Activity

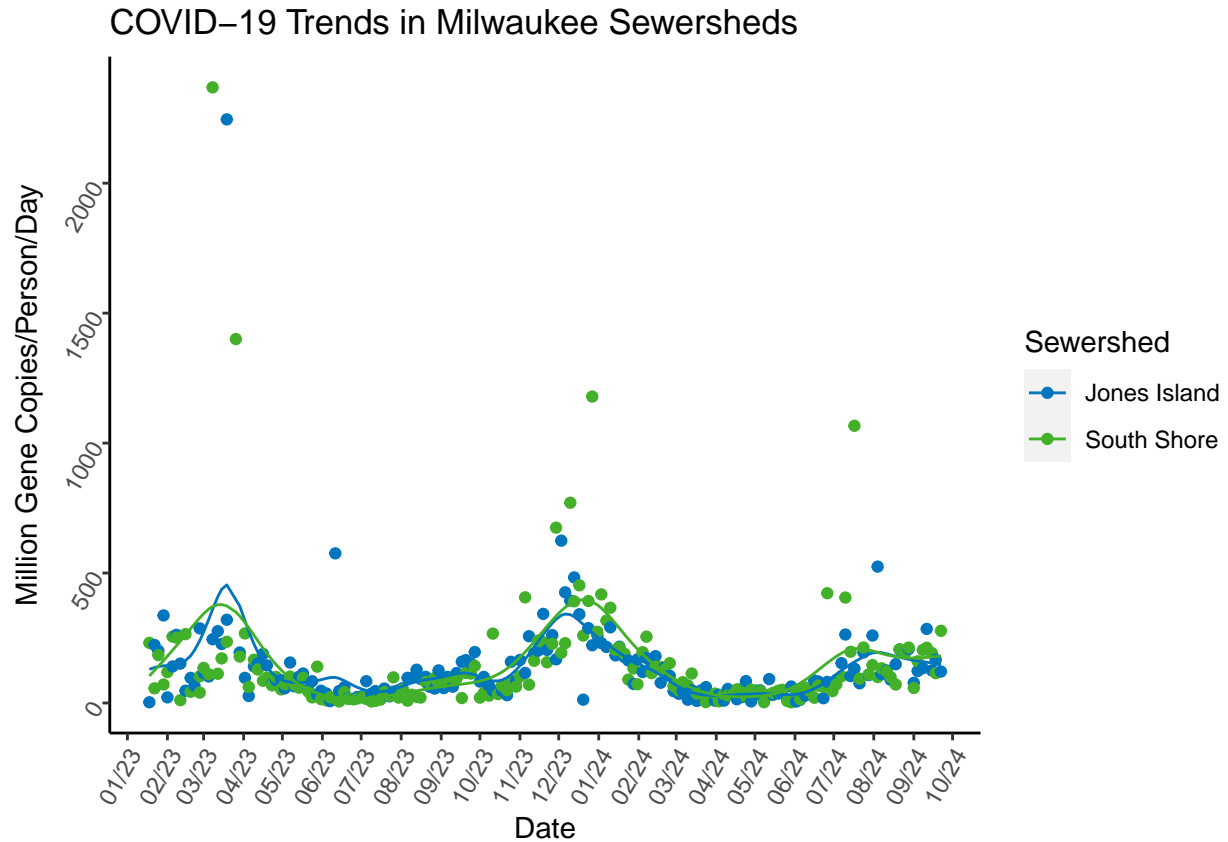
### COVID-19 Hospital Admission Metrics, Updated

#### Hospitalized Patients that are COVID-19 Positive Timeline, Milwaukee County



Data Source: HERC Region 7  
Last Update: 2024-09-26

## SARS-CoV-2 Wastewater Surveillance



**Category:** Compared to the last 6 months of data, the average of the last three most recent SARS-CoV-2 measurements are in the 78.43 percentile for Jones Island Sewershed and are in the 80.39 percentile for South Shore Sewershed. These measurements are *high* for Jones Island and *high* for South Shore.

**Trajectory:** Wastewater concentrations of SARS-CoV-2 *significantly increased* in the Jones Island or South Shore sewersheds.