

Milwaukee Respiratory Virus Surveillance Update

MMWR Week 39, Ending September 28, 2024

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Overview

County

- There were 0 influenza-associated hospitalizations reported in Milwaukee County during the week ending on September 28, 2024. From October 1, 2023 through September 28, 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 decreasing but remains elevated.
- ILI activity remains below baseline in Wisconsin.
- 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:

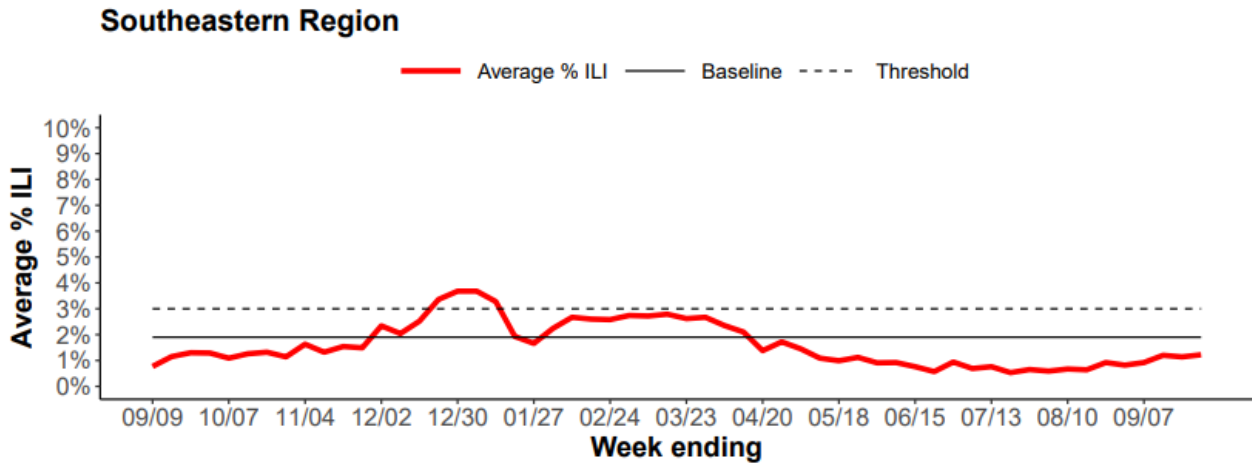
- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

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
201	187	1	One influenza-associated pediatric death occurring during the 2023-2024 season was reported to CDC during Week 39. The death was associated with an influenza A virus for which subtyping was not performed and occurred during Week 42 of 2023 (the week ending October 21, 2023).

Statewide and Regional Influenza Activity

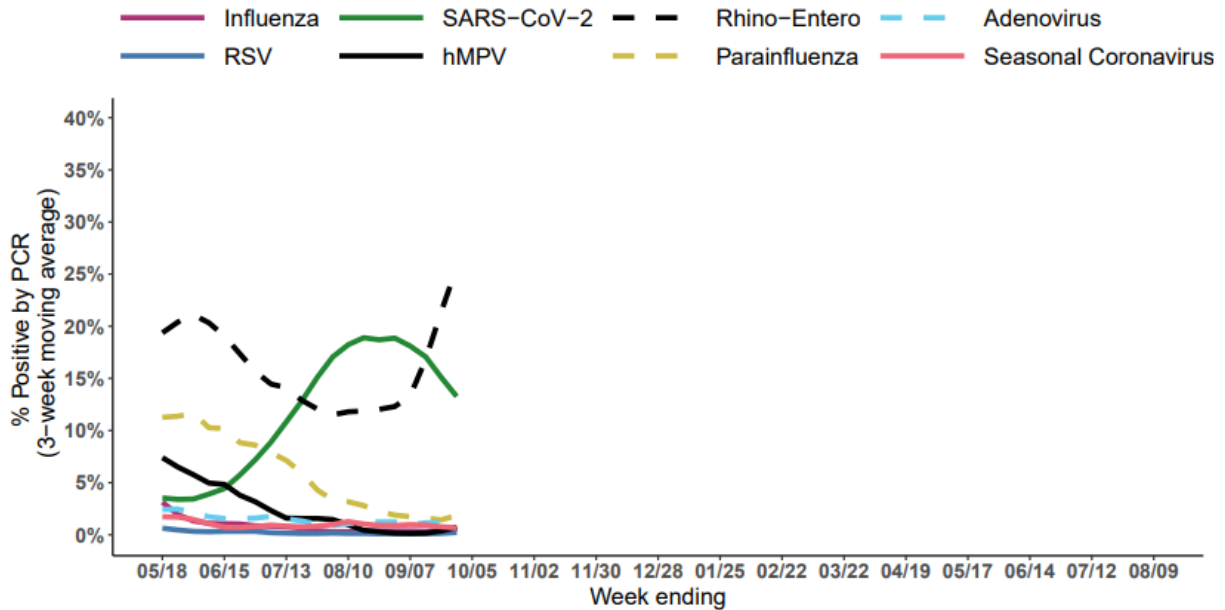
Influenza-like illness levels were below baseline statewide and below baseline in the southeastern region of the state.



Wisconsin Department of Health Services Respiratory Virus Surveillance Report, September 28, 2024

Respiratory Virus Laboratory Surveillance

Percent positivity of respiratory viruses tested by PCR, NREVSS

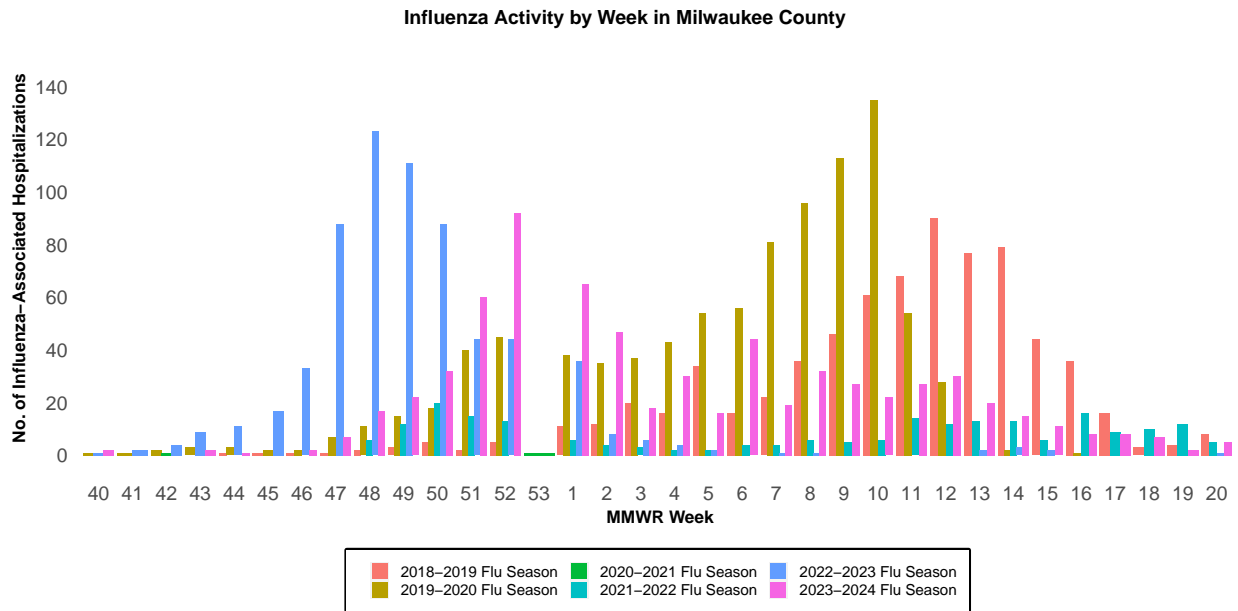


Wisconsin Department of Health Services Respiratory Virus Surveillance Report, September 28, 2024

Milwaukee County Influenza Activity

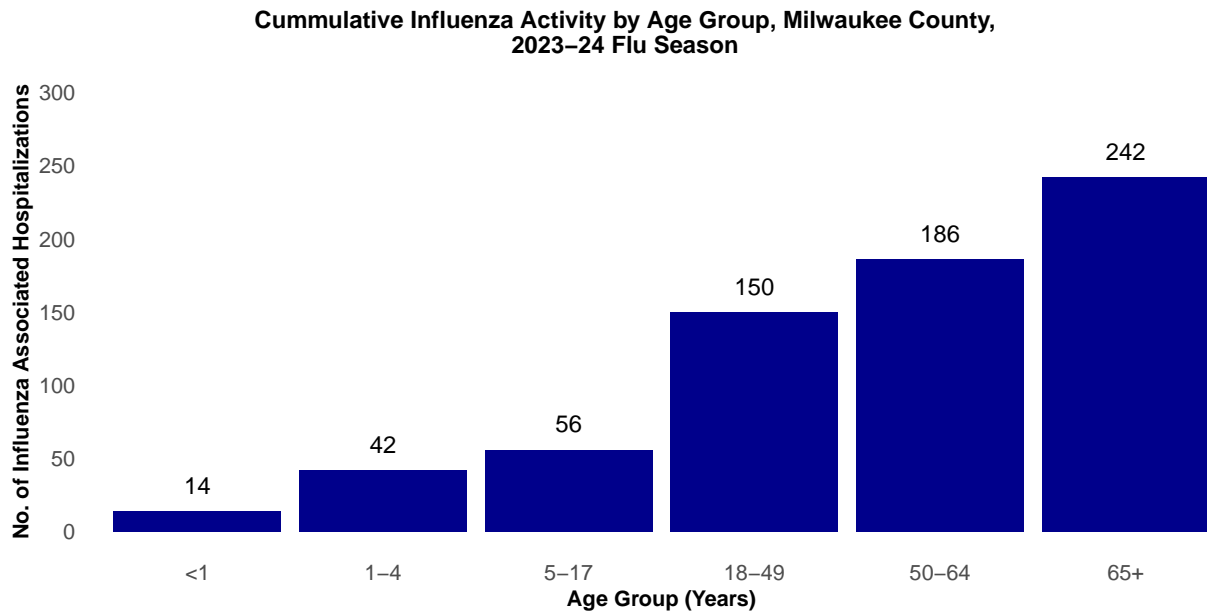
From October 1, 2023 through September 28, 2024 there have been 698 reported influenza-associated hospitalizations in Milwaukee County.

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 39, 2023



Influenza Testing Data

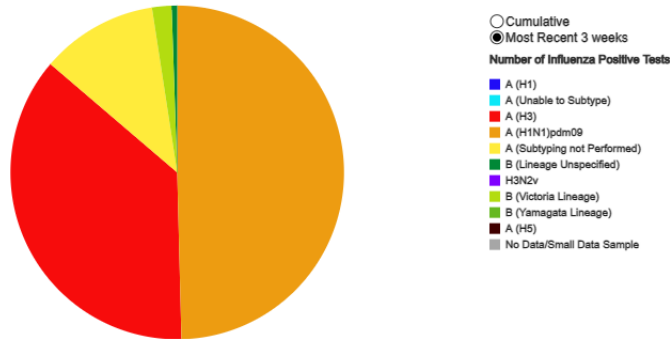
Public Health Laboratory Influenza Testing Data To-Date (Since Week 40)

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	4,168,943	352,980	223/41,057 (0.5%)	(H1N1)pdm09	Victoria	A
WSLH	-	-	46/6,887 (0.7%)	Unknown	Unknown	A
MHDL	5	0	0/5 (0%)	Unknown	Unknown	Unknown

National Influenza Testing Data, CDC FluView

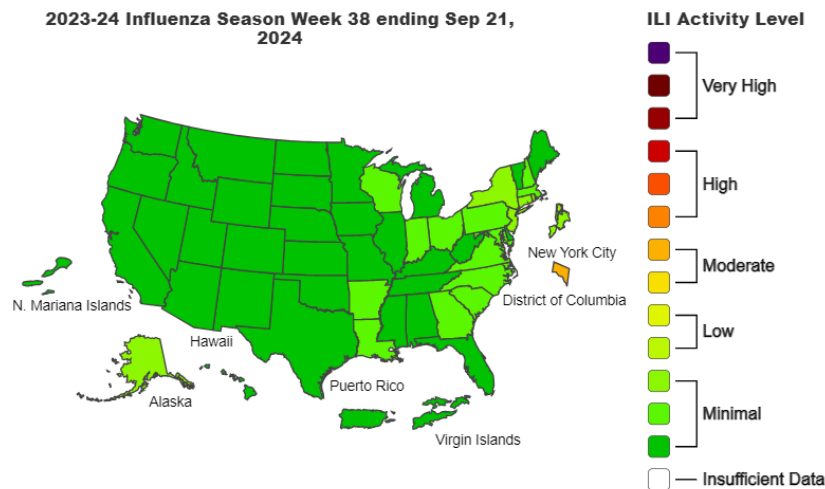


Influenza Positive Tests Reported to CDC by Public Health Laboratories, National Summary, 2023-24 Season, week ending Sep 28, 2024
Reported by: U.S. WHO/NREVSS Collaborating Laboratories and ILINet

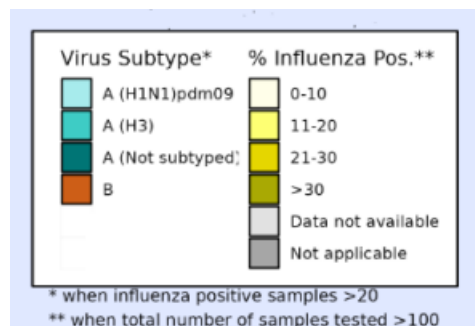
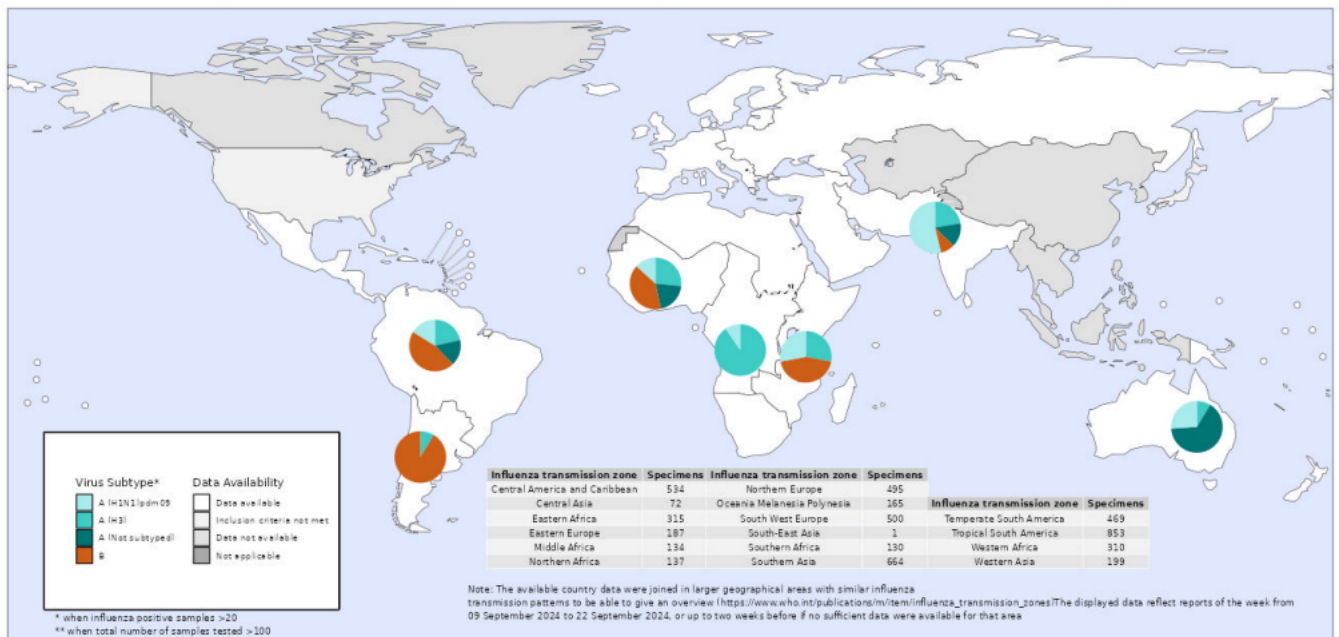


National Influenza Activity

Outpatient Respiratory Illness Activity Map, CDC FluView



Global Influenza Activity

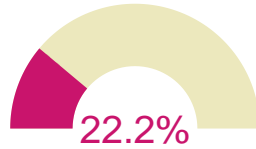


- In the Northern hemisphere, influenza activity in temperate countries remained at interepidemic levels. Activity was elevated in Western Africa (due to A(H3N2) and B viruses), Middle Africa (due to A(H3N2) viruses), Western Asia (due to A(H1N1)pdm09 and B viruses), Southern Asia (due to A(H1N1)pdm09 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 and Western Africa, but decreased or was similar to the prior report in all other reporting countries.
- 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. Aside from an increase in activity reported in one country in Eastern Europe, activity decreased or was similar compared with the prior report from all other reporting countries.

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

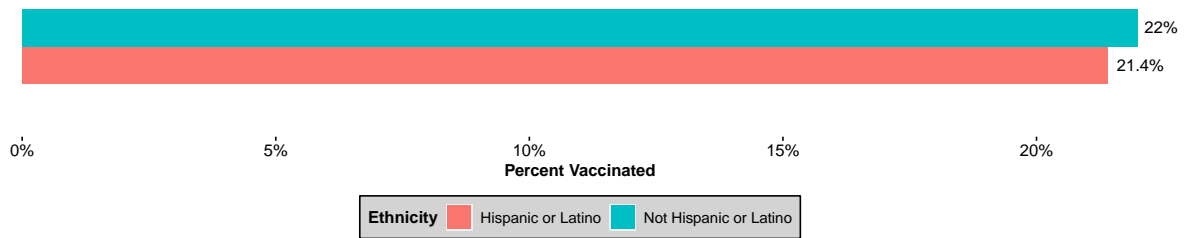
Overview

- City of Milwaukee residents who have received at least one dose of flu vaccinations as of October 4, 2024:

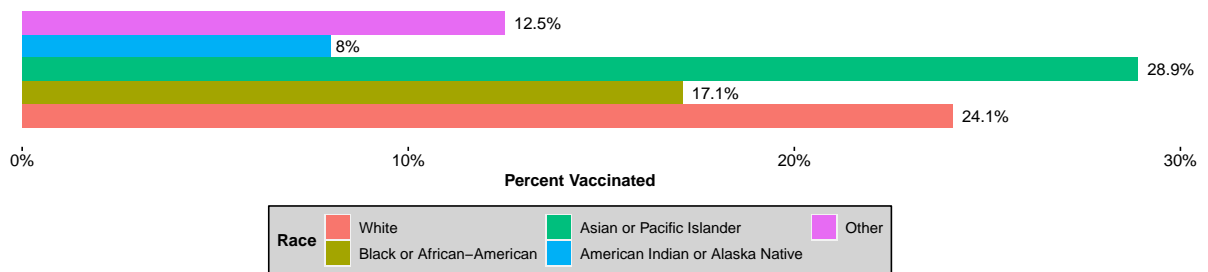


Influenza Vaccination Coverage for 2023-2024 Season by Demographics

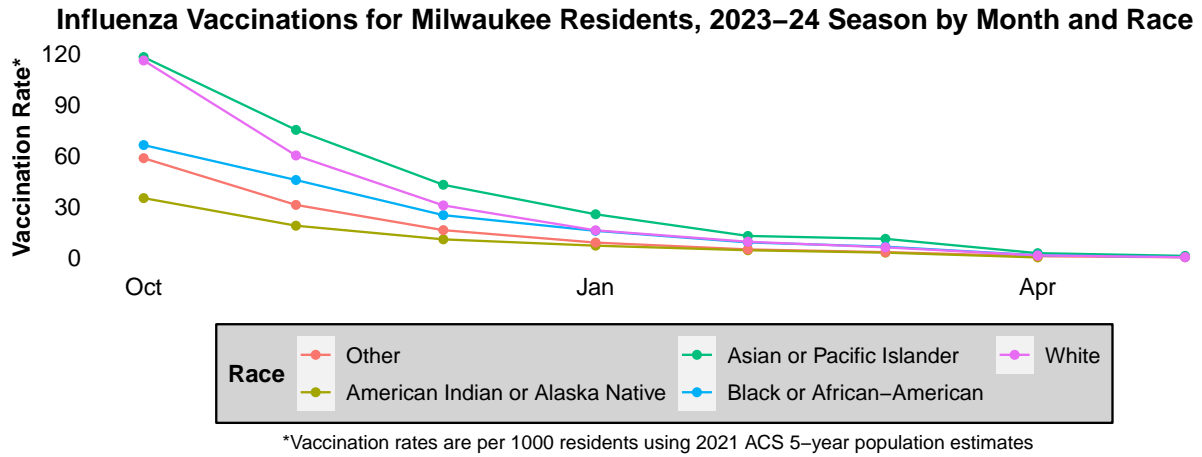
Influenza Vaccinations by Ethnicity



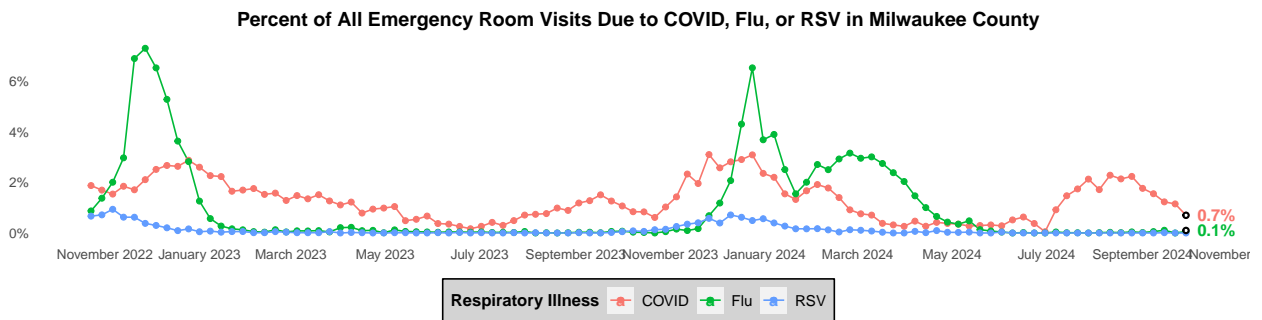
Influenza Vaccinations by Race



Vaccination Uptake Timelines



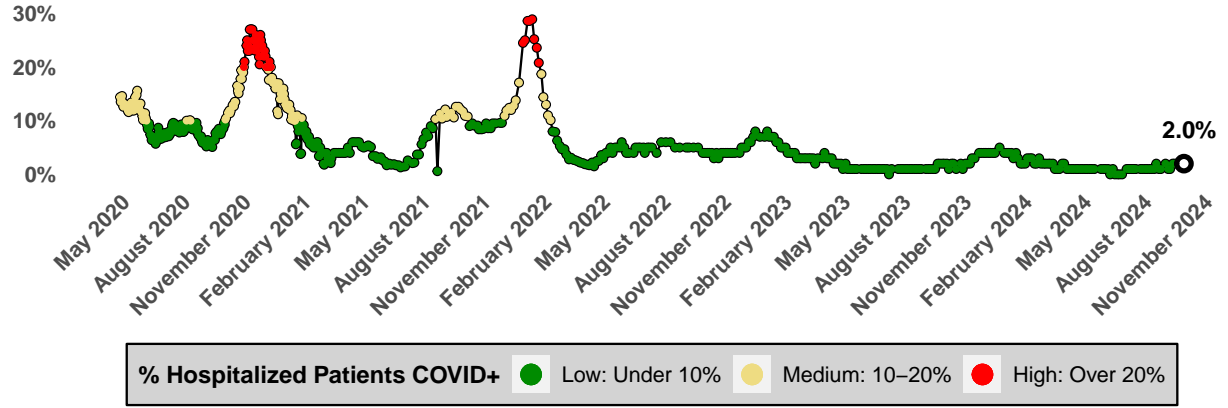
Respiratory Illness Emergency Department Visits in Milwaukee County



COVID-19 Activity

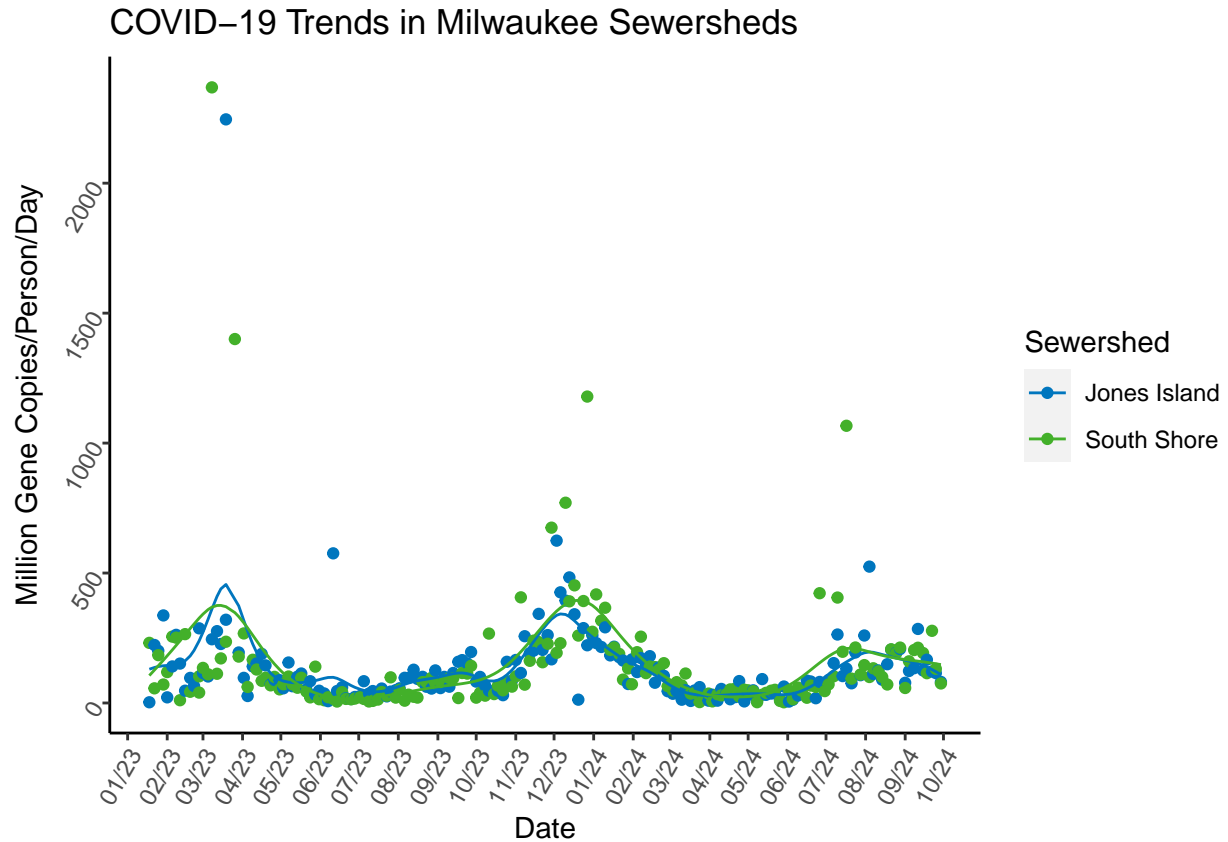
COVID-19 Hospital Admission Metrics, Updated

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



Data Source: HERC Region 7
Last Update: 2024-10-03

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 60.78 percentile for Jones Island Sewershed and are in the 76.47 percentile for South Shore Sewershed. These measurements are *moderate* 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.