

Milwaukee Respiratory Virus Surveillance Update

MMWR Week 30, Ending July 27, 2024

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Overview

County

- There were 0 influenza-associated hospitalizations reported in Milwaukee County during the week ending on July 27, 2024. From October 1, 2023 through July 27, 2024, there have been 692 reported influenza-associated hospitalizations in Milwaukee County (529 City of Milwaukee residents).

State

- Influenza-like illness (ILI) activity remains low in Wisconsin.
- Influenza and RSV continued to circulate at low levels in Wisconsin.
- Emergency department, laboratory testing, hospitalization, and wastewater data all show that COVID-19 activity is increasing. ED visit data show that COVID-19 activity is increasing most among children under 5 years and people 65 years and older.

National

- Seasonal influenza activity remains low nationally. This week no jurisdictions experienced moderate or high activity. Wisconsin had minimal activity.
- 1 influenza-associated pediatric deaths occurred during this week.
- Influenza A(H1N1)pdm09, A(H3N2) and B viruses were all 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:

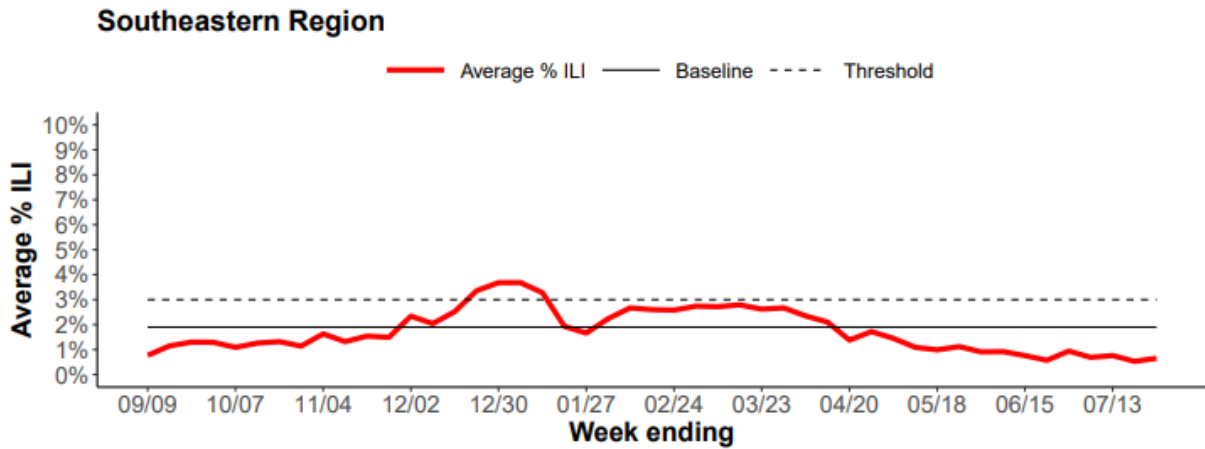
- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

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 |
|--|--|----------------------------------|---|
| 188 | 183 | 1 | One influenza-associated pediatric death occurring during the 2023-2024 season was reported to CDC during Week 30. The death was associated with an influenza A(H3) virus and occurred during Week 11 (the week ending March 16, 2024). |

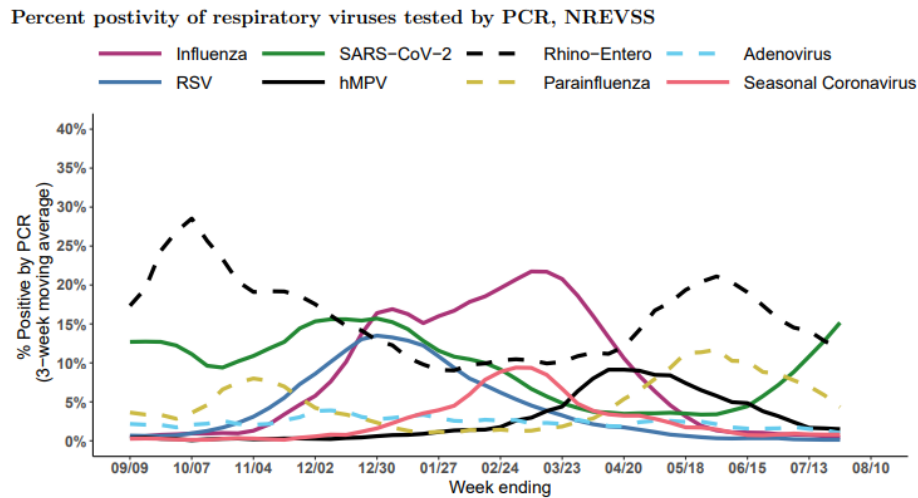
Statewide and Regional Influenza Activity

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, July 27, 2024

Respiratory Virus Laboratory Surveillance



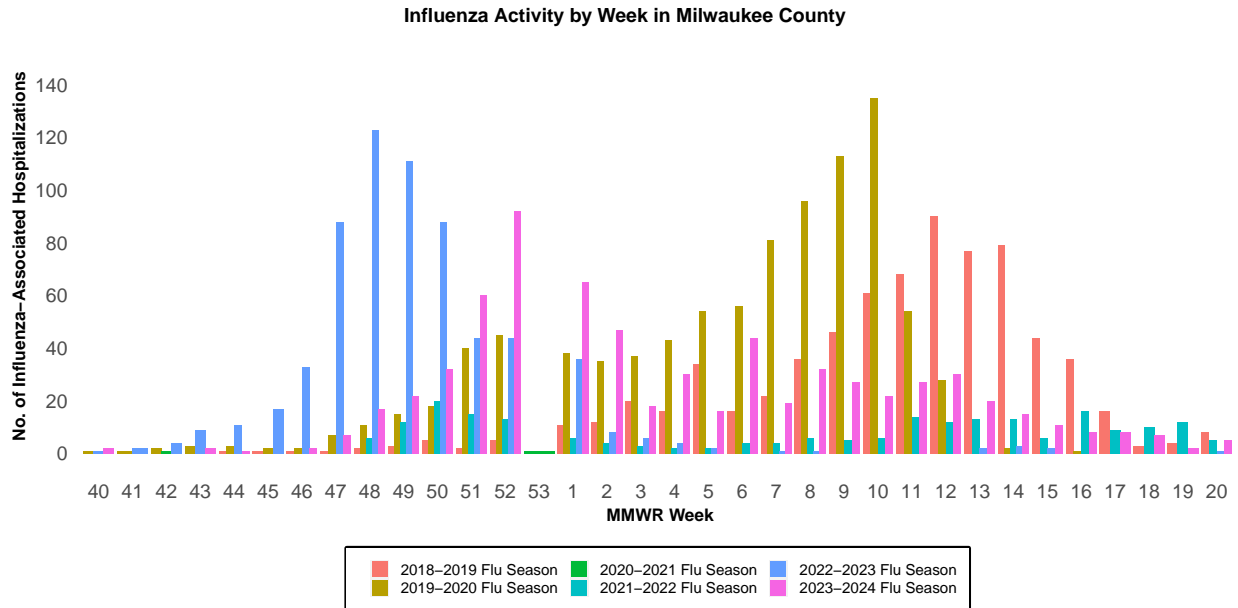
RSV = respiratory syncytial virus, hMPV = human metapneumovirus

Wisconsin Department of Health Services Respiratory Virus Surveillance Report, July 27, 2024

Milwaukee County Influenza Activity

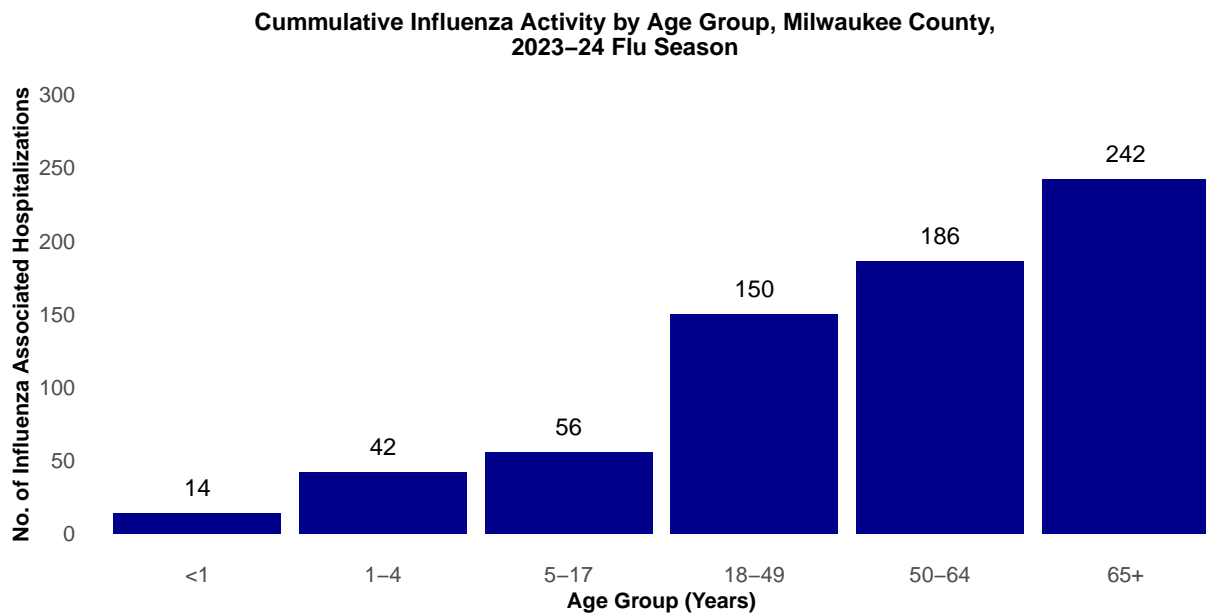
From October 1, 2023 through July 27, 2024 there have been 692 reported influenza-associated hospitalizations in Milwaukee County.

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 30, 2023

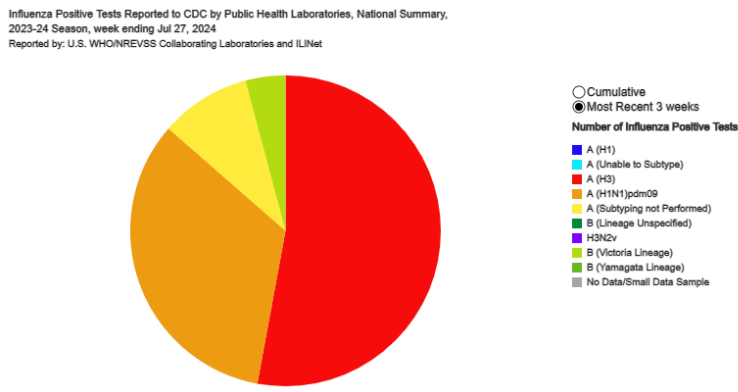


Influenza Testing Data

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 | 3,653,344 | 350,276 | 193/28,380 (0.7%) | H3N2 | Victoria | A |
| WSLH | - | - | 12/5,074 (0.2%) | Unknown | Unknown | A |
| MHDL | 343 | 77 | 0/0 (0%) | N/A | N/A | B |

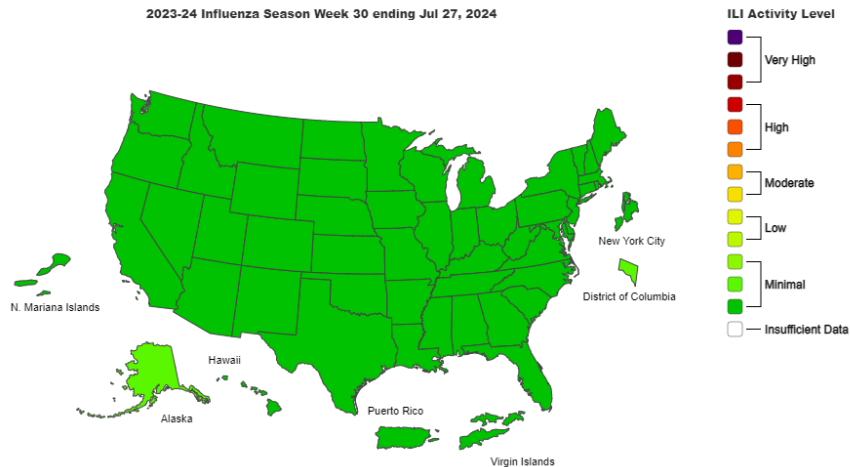
National Influenza Testing Data, CDC FluView



<http://gis.cdc.gov/grasp/fluview/fluportaldashboard.html> accessed 08/02/2024

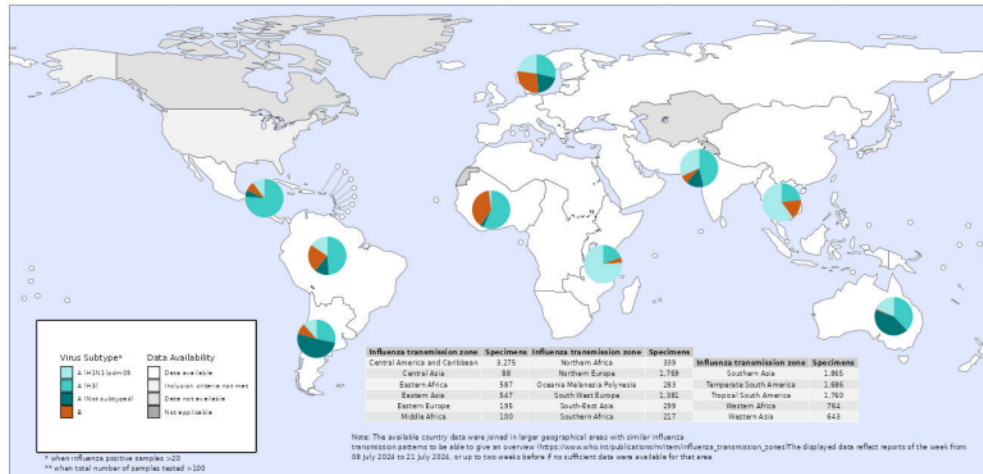
National Influenza Activity

Outpatient Respiratory Illness Activity Map, CDC FluView



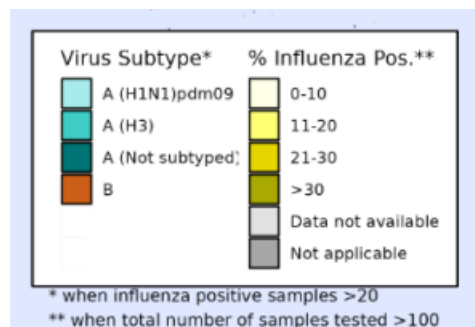
<https://www.cdc.gov/flu/weekly/index.htm#MS2> accessed 08/02/2024

Global Influenza Activity



Sentinel specimens testing positive for influenza, by virus type and subtype

<https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates>, accessed 08/02/2024

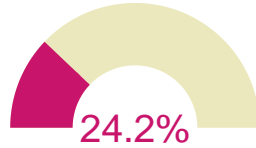


- In the Northern hemisphere, elevated influenza activity was reported in countries in Central America and the Caribbean, Western Africa, Southern Asia, and South East Asia. In these areas, activity was primarily due to A(H3N2) viruses, except in South East Asia where A(H1N1)pdm09 viruses were predominant. Activity in temperate countries remains low at interepidemic levels. Activity increased in countries in Western Africa and Southern Asia. In the Southern hemisphere, influenza activity continues to be elevated in South America, Eastern Africa, Southern Africa, and Oceania. Influenza A(H3N2) viruses continue to be the most reported virus in South America and Oceania and influenza A(H1N1)pdm09 viruses were primarily reported in Eastern Africa. Activity was similar or decreasing compared with prior weeks in most countries reporting.
- SARS-CoV-2 activity, reported from sentinel surveillance in 56 countries, was elevated and increasing in some countries in Central America and the Caribbean, Tropical South America, South West Europe, Western Africa, Eastern Asia, and South East Asia.

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

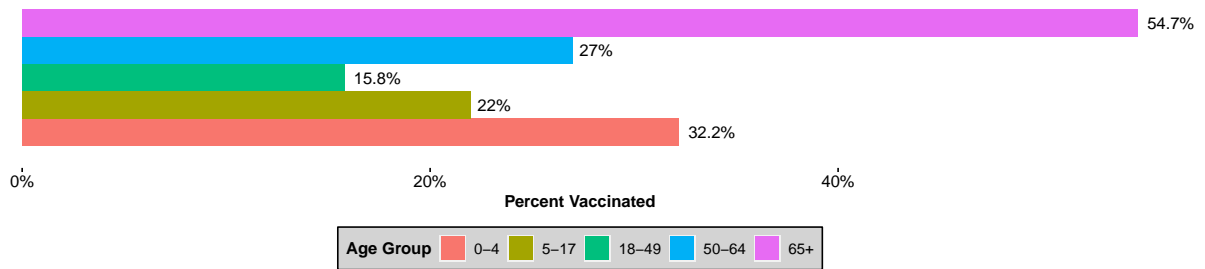
Overview

- City of Milwaukee residents who have received at least one dose of flu vaccinations as of July 31, 2024:

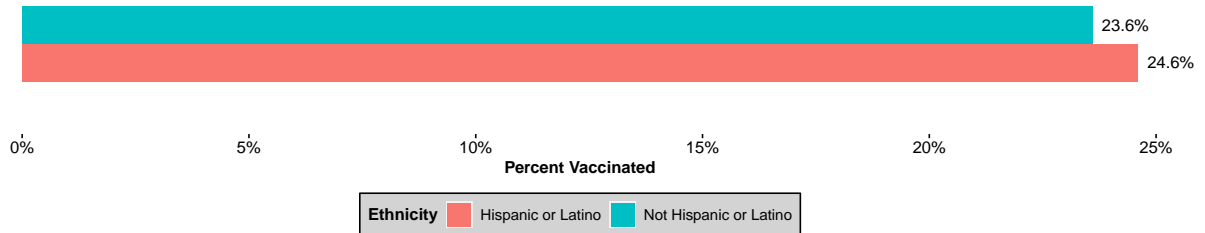


Influenza Vaccination Coverage for 2023-2024 Season by Demographics

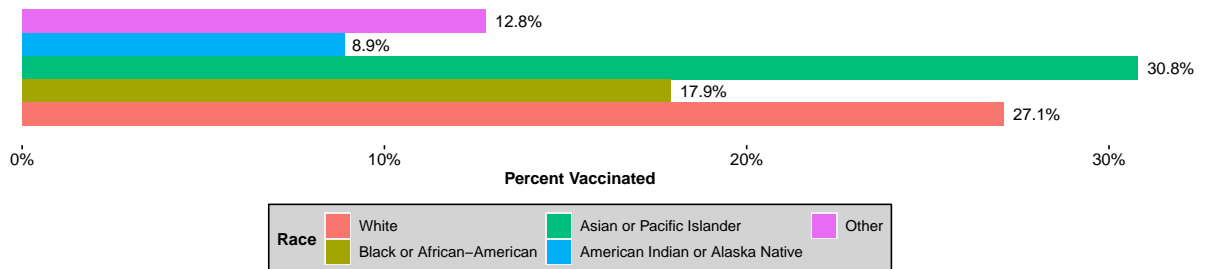
Influenza Vaccinations by Age Group



Influenza Vaccinations by Ethnicity

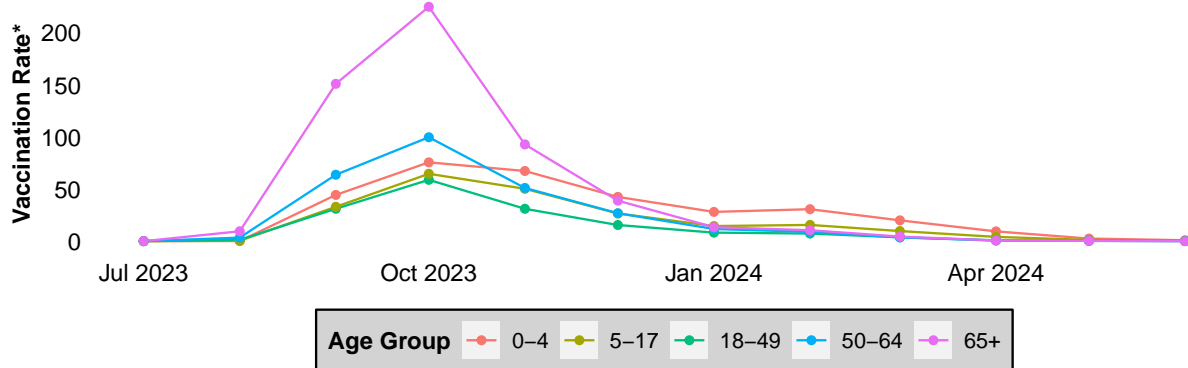


Influenza Vaccinations by Race



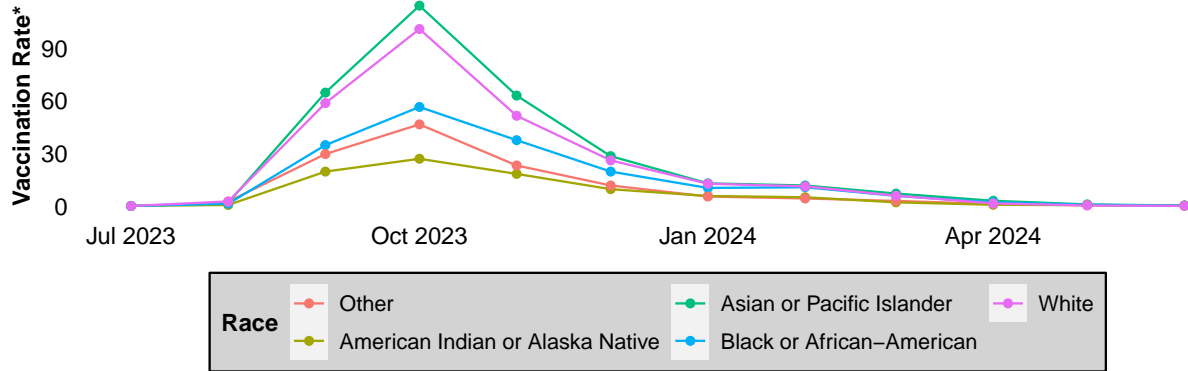
Vaccination Uptake Timelines

Influenza Vaccinations for Milwaukee Residents, 2023–24 Season by Month and Age Group



*Vaccination rates are per 1000 residents using 2021 ACS 5-year population estimates

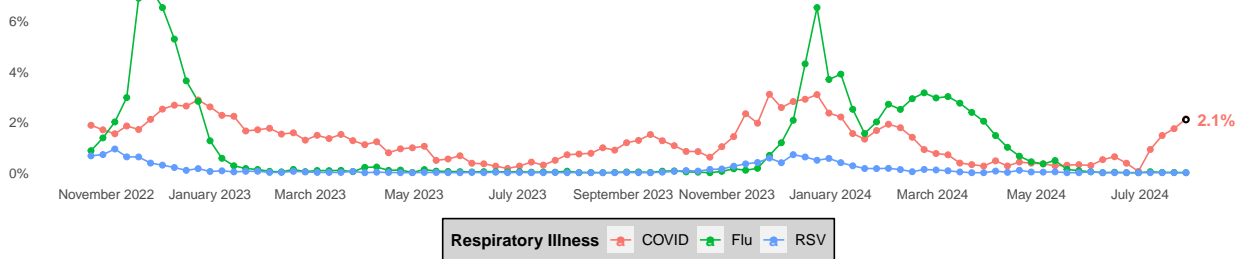
Influenza Vaccinations for Milwaukee Residents, 2023–24 Season by Month and Race



*Vaccination rates are per 1000 residents using 2021 ACS 5-year population estimates

Respiratory Illness Emergency Department Visits in Milwaukee County

Percent of All Emergency Room Visits Due to COVID, Flu, or RSV in Milwaukee County



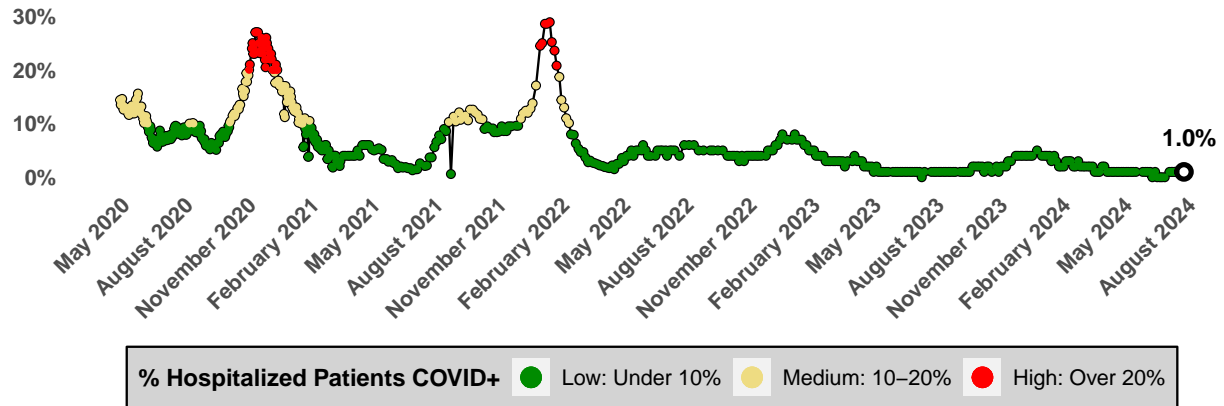
Please Note: Ascension recently was impacted by a cyberattack. As a result, Ascension facilities are not reporting visits into ESSENCE and we do not know when reporting will resume.

COVID-19 Activity

City of Milwaukee COVID-19 Vaccination Uptake

- As of July 31, 2024, 13.1% of city residents are up-to-date with their COVID-19 vaccinations.

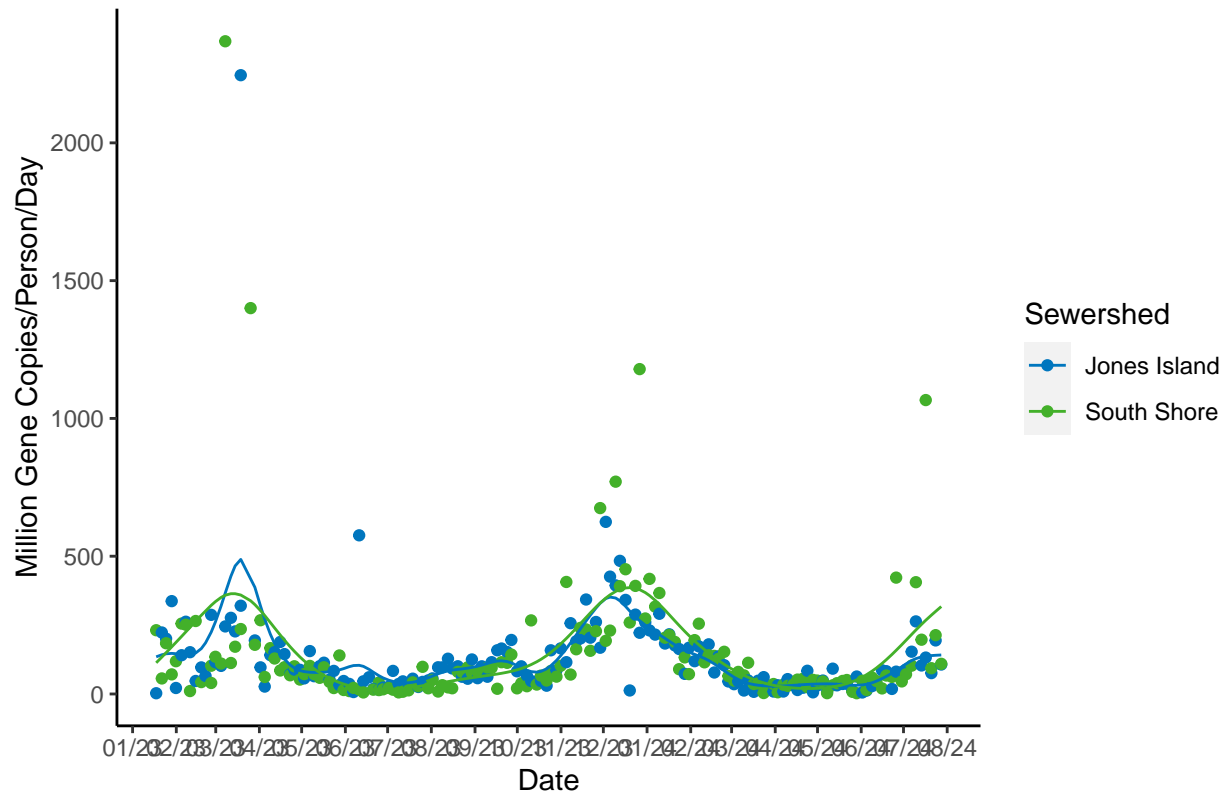
Hospitalized Patients that are COVID-19 Positive Timeline, Milwaukee County



Data Source: HERC Region 7
Last Update: 2024-07-29

SARS-CoV-2 Wastewater Surveillance

COVID-19 Trends in Milwaukee Sewersheds



Category: Compared to the last 6 months of data, the average of the last three most recent SARS-CoV-2 measurements are in the 84.31 percentile for Jones Island Sewershed and are in the 82.35 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.