

Milwaukee Respiratory Virus Surveillance Update

MMWR Week 25, Ending June 22, 2024

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Overview

County

- There were 0 influenza-associated hospitalizations reported in Milwaukee County during the week ending on June 22, 2024. From October 1, 2023 through June 22, 2024, there have been 690 reported influenza-associated hospitalizations in Milwaukee County (526 City of Milwaukee residents).

State

- COVID-19, influenza, and RSV continued to circulate at low levels in Wisconsin.
- Influenza-like illness (ILI) activity remains low in Wisconsin.
- Emergency department, laboratory testing, hospitalization, and wastewater data all show that COVID-19 activity is increasing.

National

- Seasonal influenza activity remains low nationally. This week no jurisdictions experienced moderate or high activity. Wisconsin had minimal activity.
- 3 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:

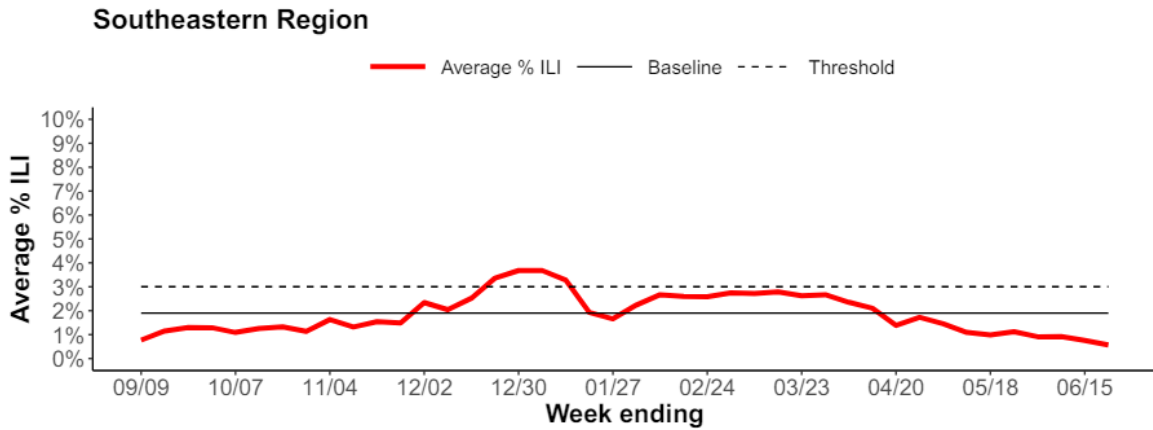
- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

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
181	180	3	Three influenza-associated pediatric deaths occurring during the 2023-2024 season were reported to CDC during Week 25. Two deaths were associated with influenza A viruses with no subtyping performed. One of the deaths occurred during Week 51 (the week ending December 23, 2023) and the other occurred during Week 14 (the week ending April 6, 2024). The third death occurred during Week 20 (the week ending May 18, 2024) and was associated with an influenza B/Victoria virus.

Statewide and Regional Influenza Activity

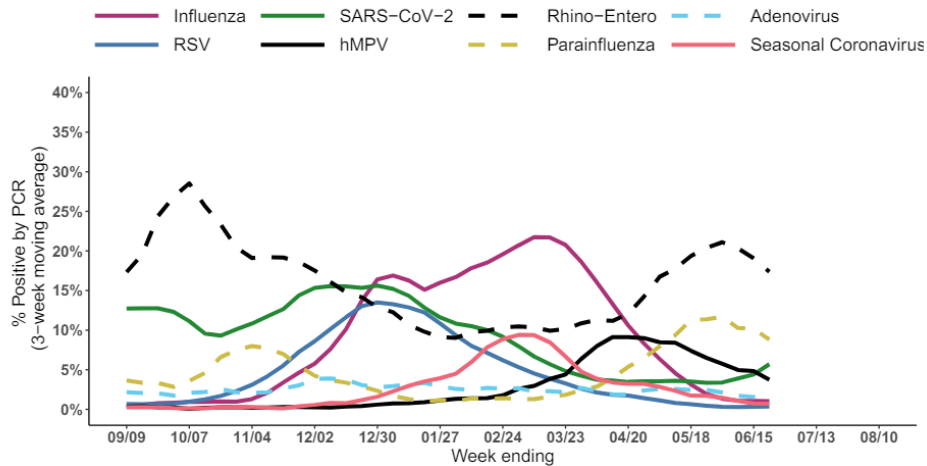
Influenza-like illness levels were below baseline statewide and below baseline in the southeastern region of the state.



Wisconsin Department of Health Services Respiratory Virus Surveillance Report, June 22, 2024

Respiratory Virus Laboratory Surveillance

Percent positivity of respiratory viruses tested by PCR, NREVSS



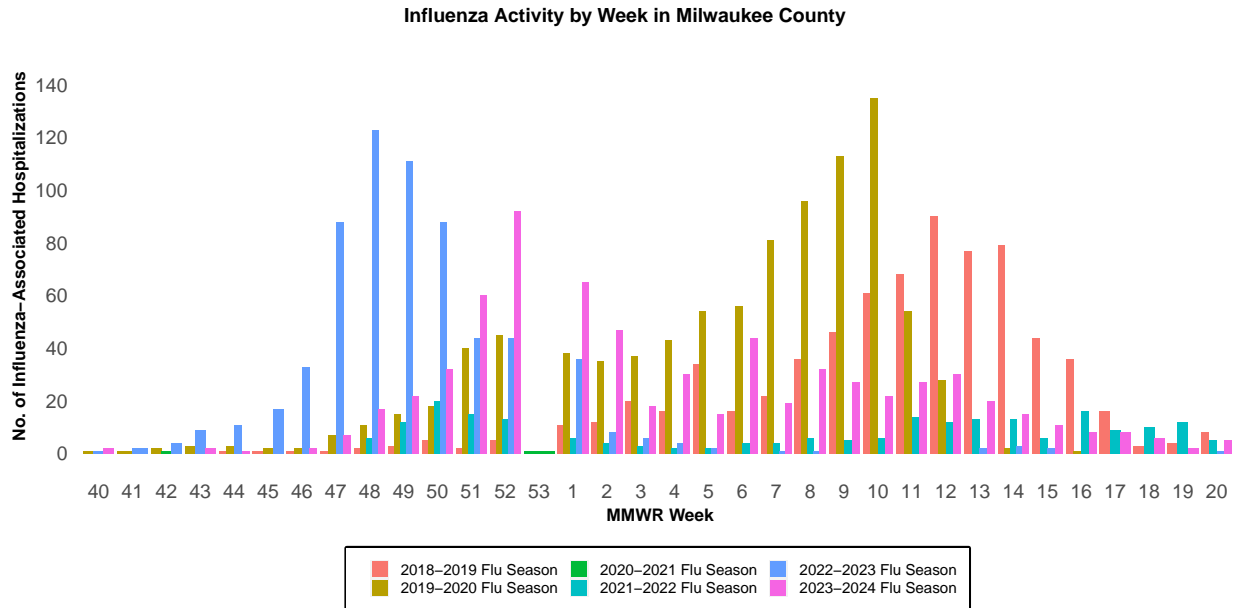
RSV = respiratory syncytial virus, hMPV = human metapneumovirus

Wisconsin Department of Health Services Respiratory Virus Surveillance Report, June 22, 2024

Milwaukee County Influenza Activity

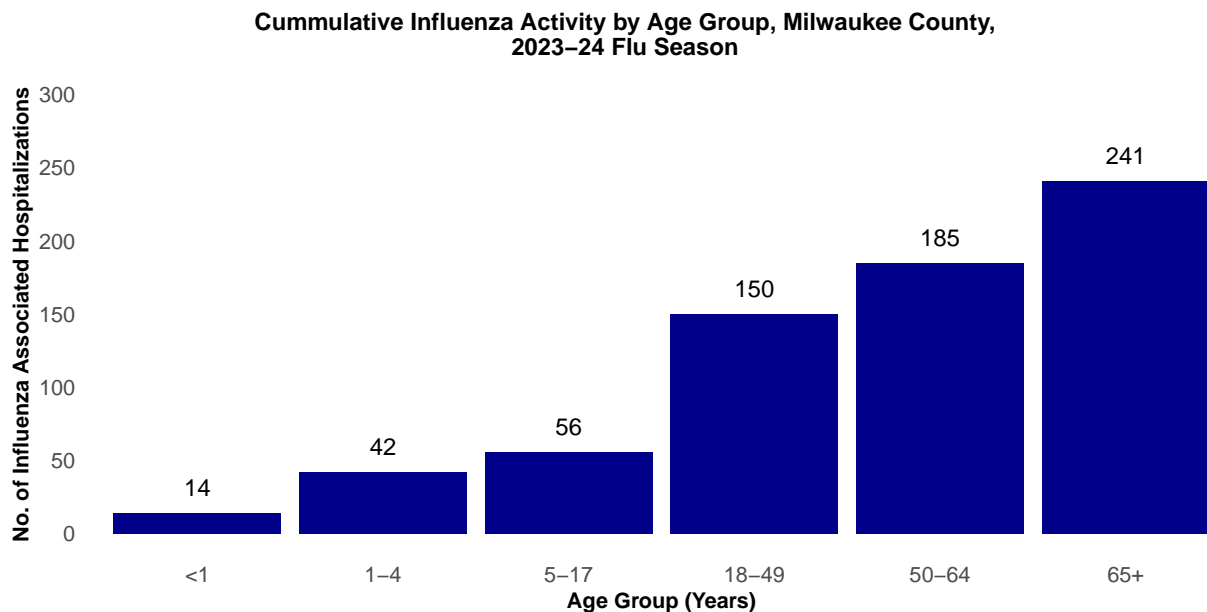
From October 1, 2023 through June 22, 2024 there have been 690 reported influenza-associated hospitalizations in Milwaukee County.

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 25, 2023



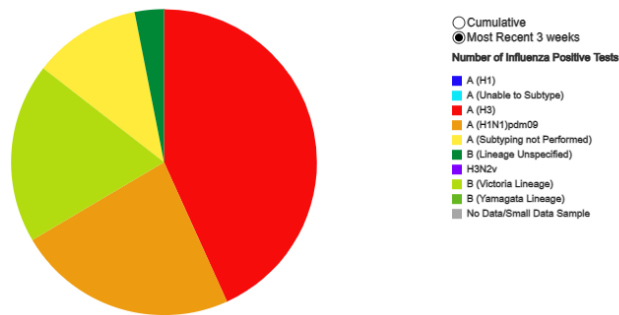
Influenza Testing Data

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	3,457,891	348,428	352/31,1854 (1.1%)	H3N2	Victoria	A
WSLH	-	-	35/4,473 (0.8%)	Unknown	Unknown	A
MHDL	331	77	0/11 (0%)	N/A	N/A	B

National Influenza Testing Data, CDC FluView

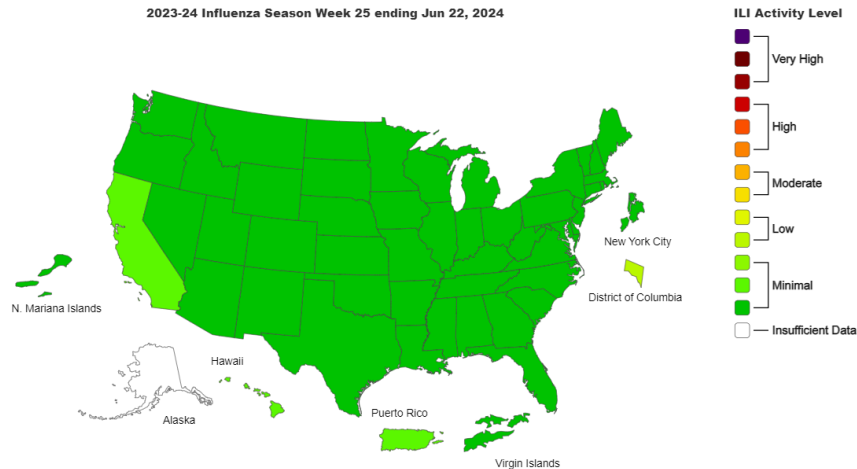
Influenza Positive Tests Reported to CDC by Public Health Laboratories, National Summary, 2023-24 Season, week ending Jun 22, 2024
Reported by U.S. WHONREVS Collaborating Laboratories and ILINet



<http://gis.cdc.gov/grasp/fluview/fluportaldashboard.html> accessed 06/28/2024

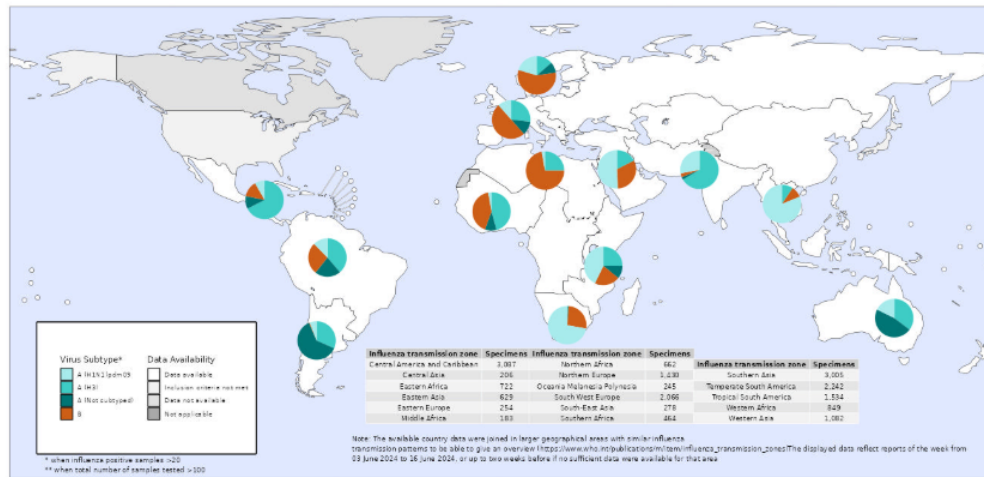
National Influenza Activity

Outpatient Respiratory Illness Activity Map, CDC FluView



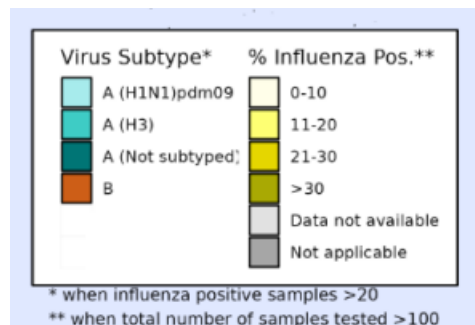
<https://www.cdc.gov/flu/weekly/index.htm#MS2> accessed 06/28/2024

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 06/28/2024

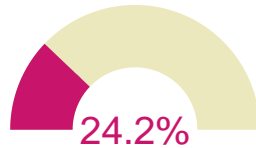


- In the Northern hemisphere, elevated influenza activity continued to be reported in countries in Central America and the Caribbean and in South Asia, primarily due to influenza A(H3N2) viruses. In Western Africa, influenza activity, due primarily to influenza A(H3N2) and B viruses, was elevated and increasing in some countries. In most temperate countries, influenza activity remained low at interepidemic levels. In the Southern hemisphere, influenza activity in countries in South America, and Oceania and in South Africa continues to be elevated but there are indications that activity may have peaked in some countries in South America and in South Africa. In South America activity was primarily due to A(H3N2) viruses, in South Africa A(H1N1)pdm09 viruses predominated, and in Oceania both A(H1N1)pdm09 and A(H3N2) viruses circulated.
- SARS-CoV-2 activity, reported from sentinel surveillance in 57 countries, was elevated and increasing in some countries in South West Europe, and elevated activity was reported in some countries in Western Africa and South East Asia.

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

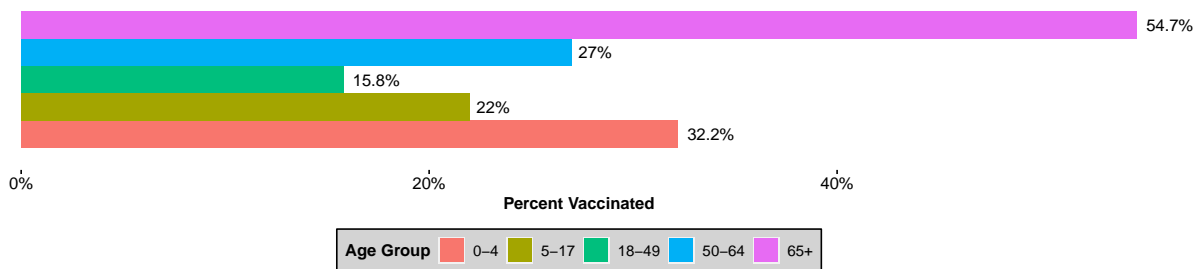
Overview

- City of Milwaukee residents who have received at least one dose of flu vaccinations as of June 26, 2024:

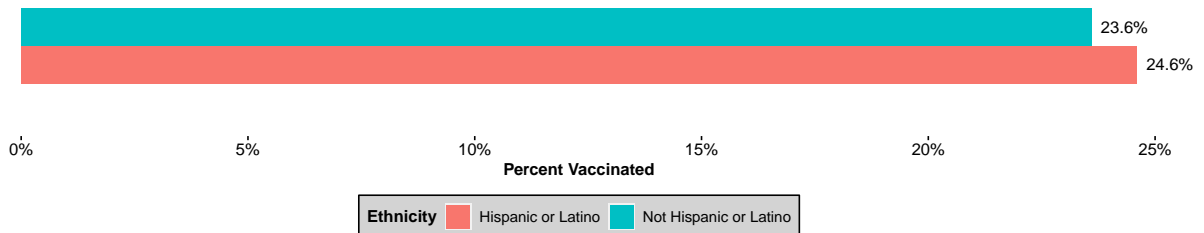


Influenza Vaccination Coverage for 2023-2024 Season by Demographics

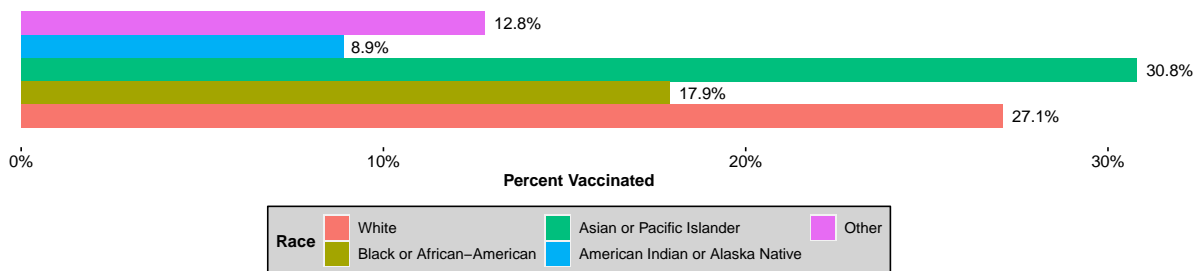
Influenza Vaccinations by Age Group



Influenza Vaccinations by Ethnicity

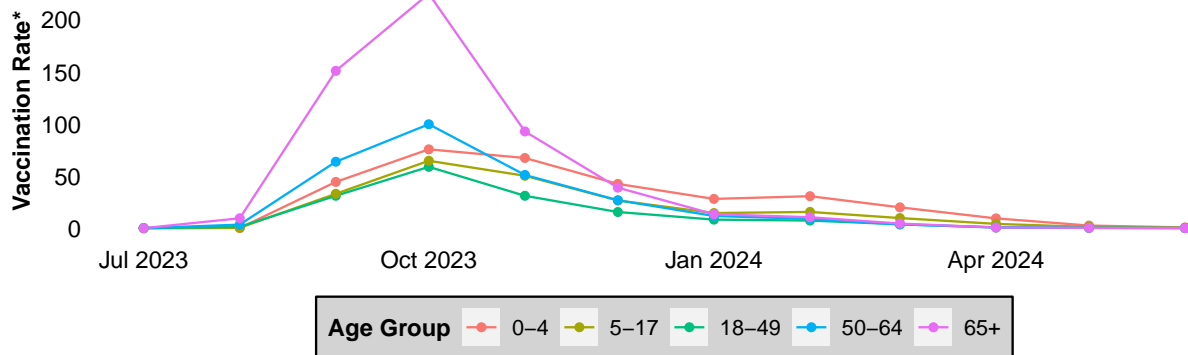


Influenza Vaccinations by Race



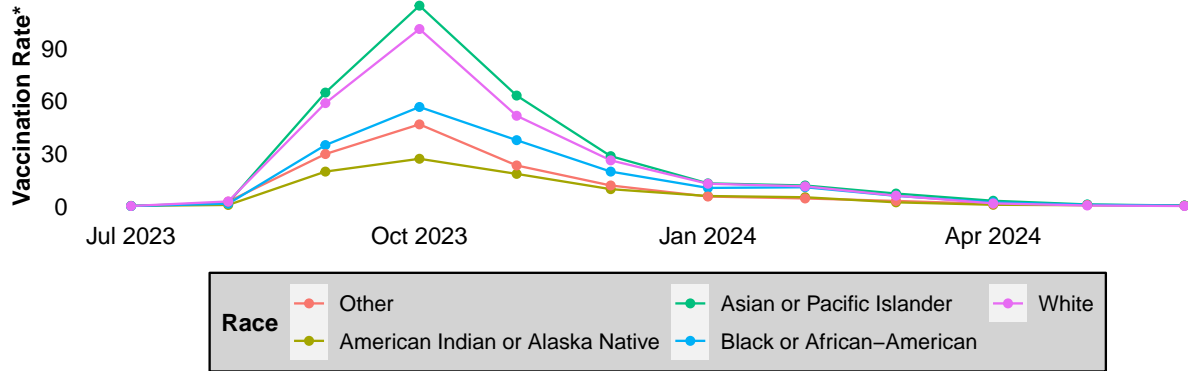
Vaccination Uptake Timelines

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

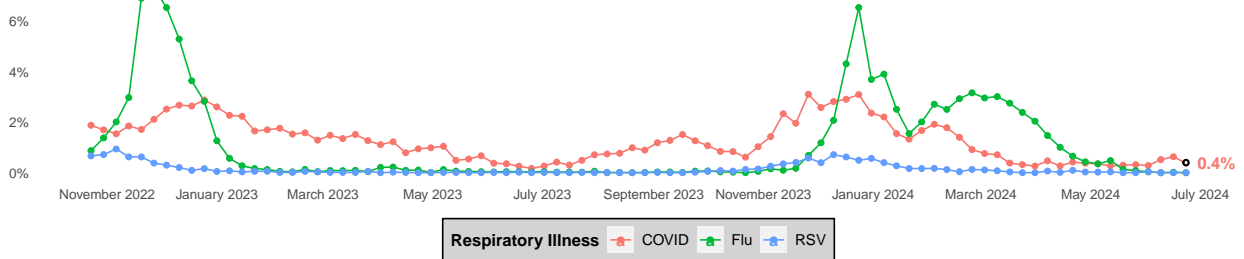
Influenza Vaccinations for Milwaukee Residents, 2023–24 Season by Month and Race



*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



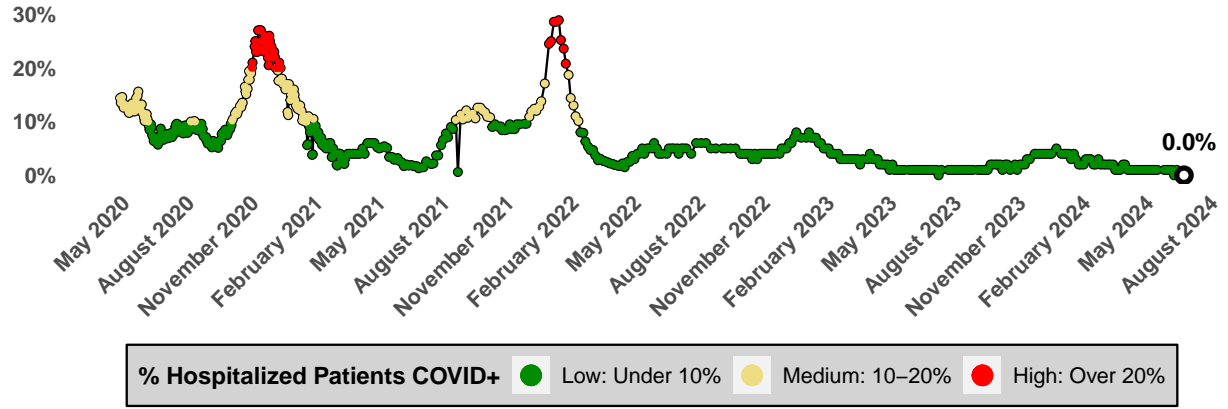
Please Note: Ascension recently was impacted by a cyberattack. As a result, Ascension facilities are not reporting visits into ESSENCE and we do not know when reporting will resume.

COVID-19 Activity

City of Milwaukee COVID-19 Vaccination Uptake

- As of June 26, 2024, 13% of city residents are up-to-date with their COVID-19 vaccinations.

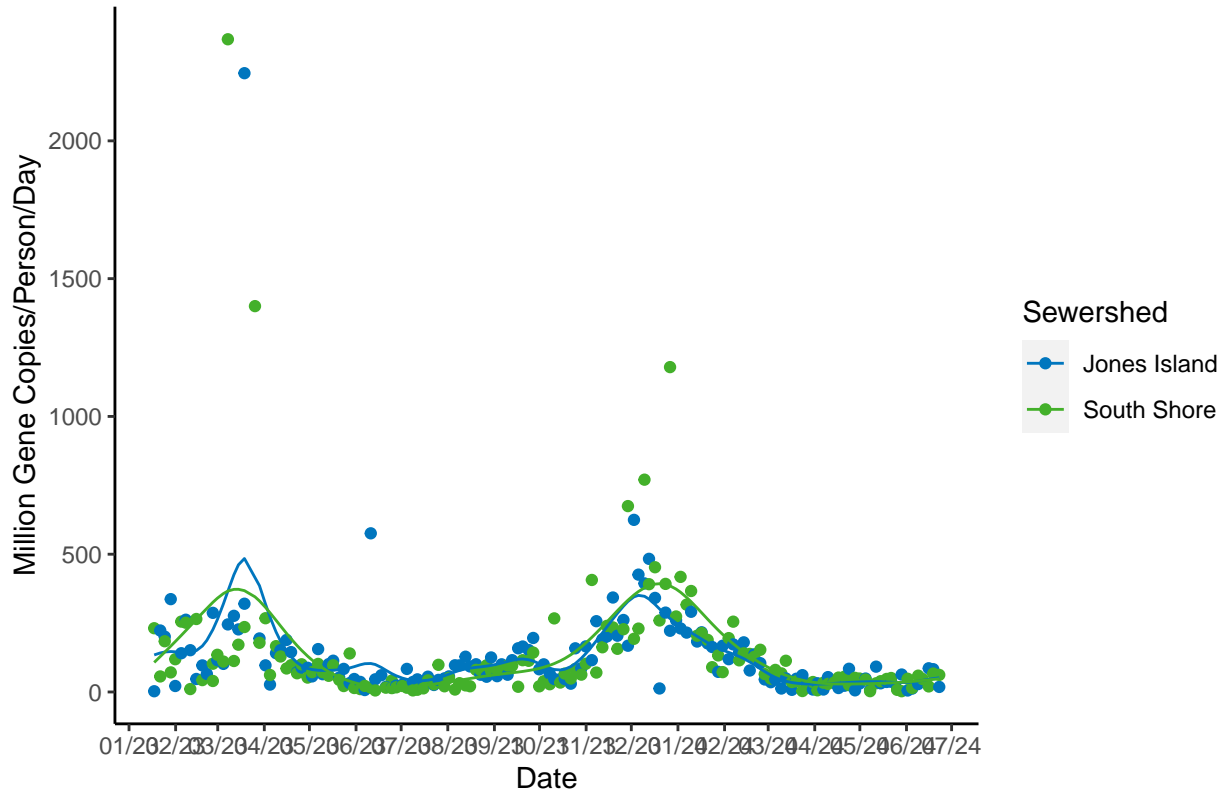
Hospitalized Patients that are COVID-19 Positive Timeline, Milwaukee County



Data Source: HERC Region 7
Last Update: 2024-06-27

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 56.86 percentile for Jones Island Sewershed and are in the 45.1 percentile for South Shore Sewershed. These measurements are *moderate* for Jones Island and *moderate* for South Shore.

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