



Milwaukee Respiratory Virus Surveillance Update MMWR Week 10, Ending March 9, 2024

Contents

Overview

County

- There were 4 influenza-associated hospitalizations reported in Milwaukee County during the week ending on March 9, 2024. From October 1, 2023 through March 9, 2024, there have been 462 reported influenza-associated hospitalizations in Milwaukee County (328 City of Milwaukee residents).

State

- Influenza-like illness (ILI) activity is at moderate or high levels in every region of Wisconsin and influenza is the predominant virus of the week.
- While influenza activity is increasing in school-aged children, RSV and COVID-19 are decreasing.
- Influenza A and B are co-circulating, the majority of influenza viruses are influenza B.

National

- Seasonal influenza activity remains elevated nationally with increases in some parts of the country. This week 13 jurisdictions experienced moderate activity and 16 jurisdictions experienced high or very high activity.
- 13 influenza-associated pediatric deaths occurred during this week.
- Influenza A viruses were the most frequently reported 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:

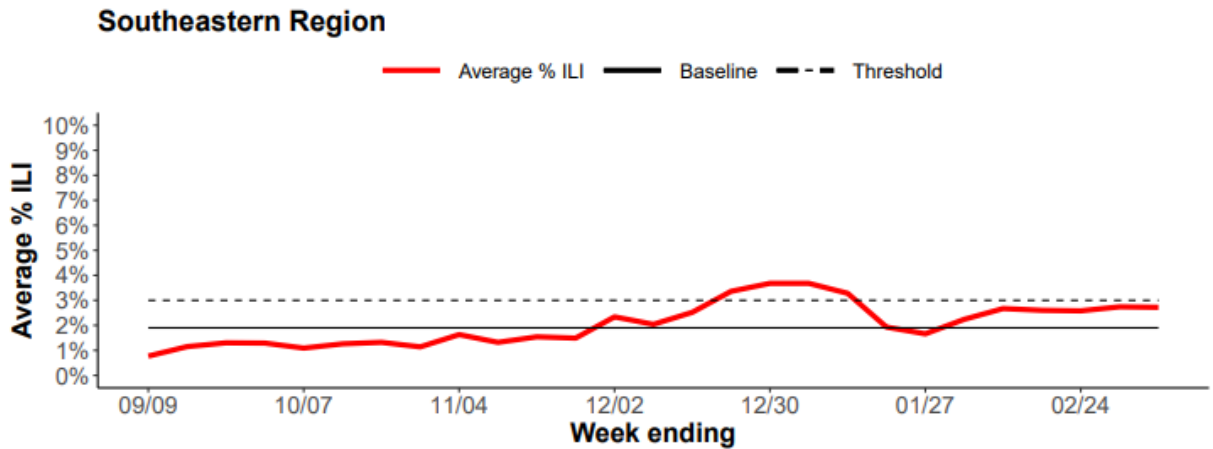
- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

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
116	182	13	Fifteen influenza-associated pediatric deaths were reported to CDC during Week 10. Thirteen deaths occurred during the 2023-2024 season, bringing the total pediatric deaths for this season to 116. The deaths occurred during Week 52 of 2023 (the week ending December 30, 2023) and between weeks 4 and 9 of 2024 (the weeks ending January 27, 2024, and March 2, 2024). Nine deaths were associated with influenza A viruses. Six of the influenza A viruses had subtyping performed; five were A(H1N1) viruses and one was an A(H3) virus. Three deaths were associated with influenza B viruses with no lineage determined. One death was associated with a co-infection with influenza A(H1N1) and influenza B viruses.

Statewide and Regional Influenza Activity

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

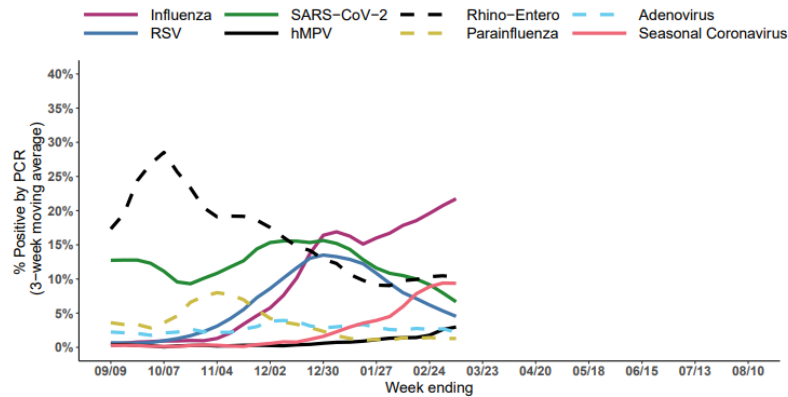


Wisconsin Department of Health Services Respiratory Virus Surveillance Report, March 9, 2024

Respiratory Virus Laboratory Surveillance

Wisconsin Laboratory Surveillance for Respiratory Viruses

Percent positivity of respiratory viruses tested by PCR, NREVSS



Number and percent positivity of respiratory viruses tested by PCR, NREVSS
Week 10, Ending on March 09, 2024

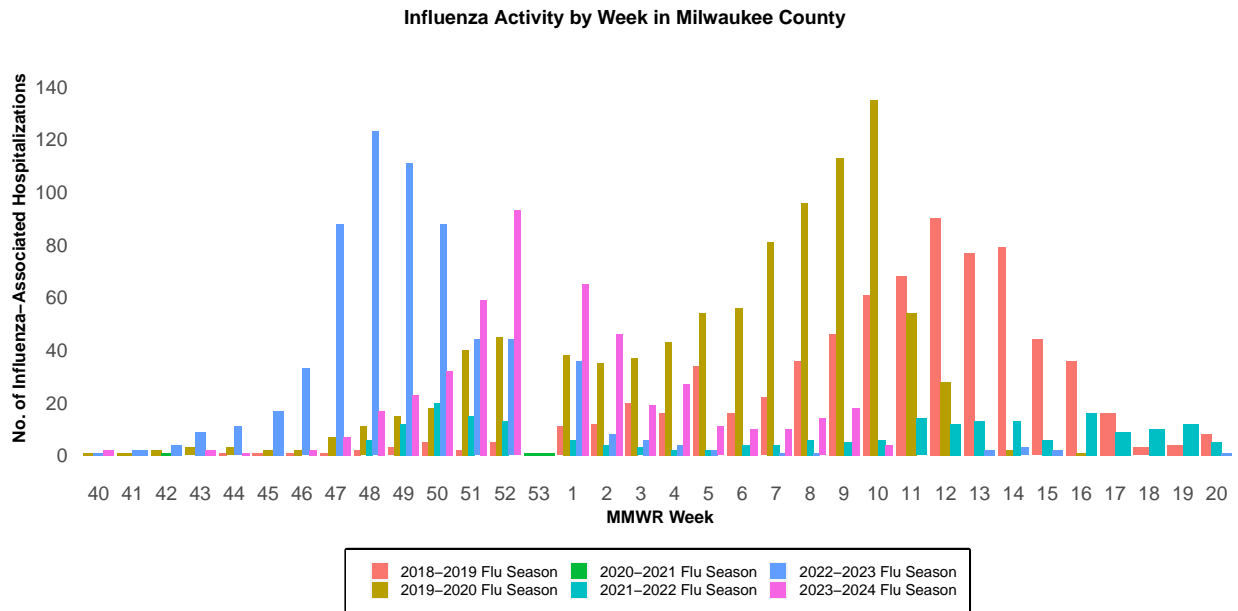
RSV = respiratory syncytial virus, hMPV = human metapneumovirus

Wisconsin Department of Health Services Respiratory Virus Surveillance Report, March 9, 2024

Milwaukee County Influenza Activity

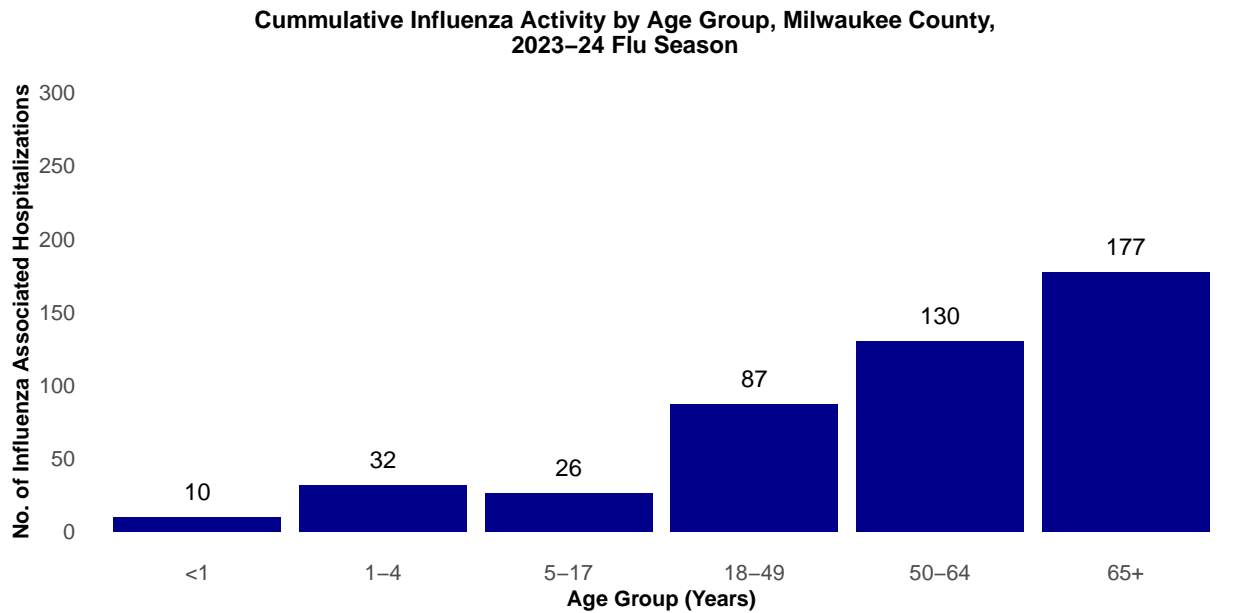
From October 1, 2023 through March 9, 2024 there have been 462 reported influenza-associated hospitalizations in Milwaukee County.

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 10, 2023

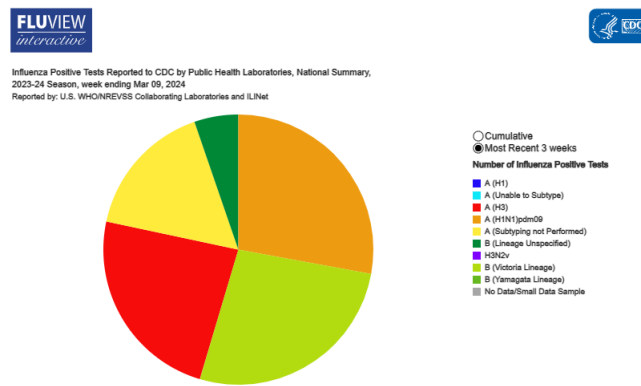


Influenza Testing Data

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	2,419,084	279,439	10,161/65,809 (15.4%)	(H1N1)pdm09	Victoria	A
WSLH	-	-	3,572/15,870 (22.5%)	Unknown	Unknown	B
MHDL	5	0	4/11 (36.36%)	Unknown	Unknown	B

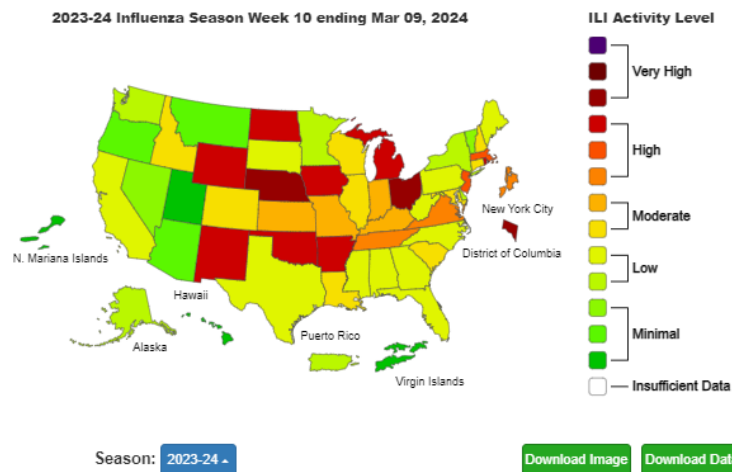
National Influenza Testing Data, CDC FluView



<http://gis.cdc.gov/grasp/fluview/fluportaldashboard.html> accessed 03/15/2024

National Influenza Activity

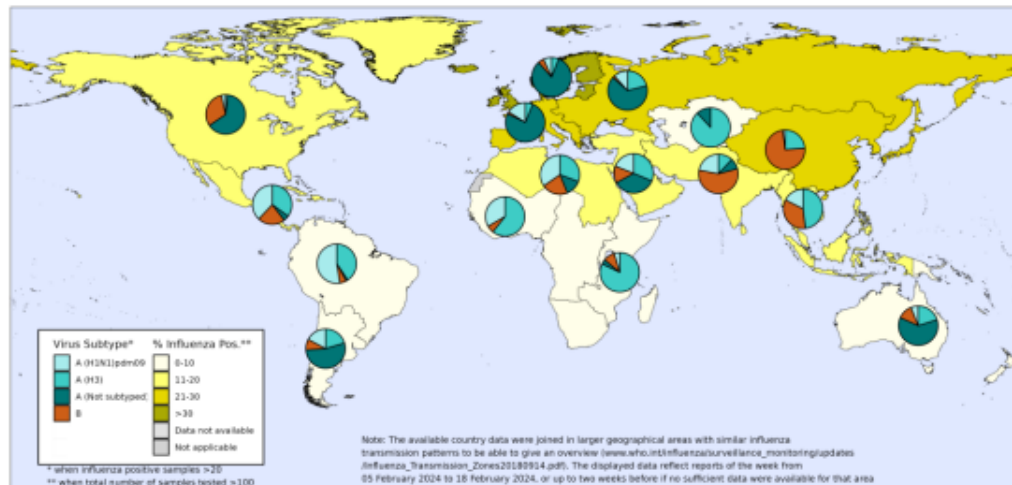
Outpatient Respiratory Illness Activity Map, CDC FluView



<https://www.cdc.gov/flu/weekly/index.htm#MS2> accessed 03/15/2024

Global Influenza Activity

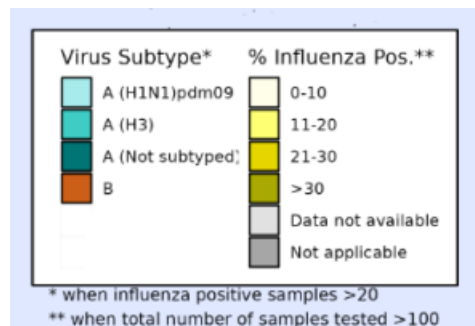
Percentage of respiratory specimens testing positive for influenza, by influenza transmission zone.¹ Map generated on 01 March 2024. (The displayed data reflect reports of the weeks from 05 February 2024 to 18 February 2024 or up to two weeks before if insufficient data were available for an area for that period.)



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data source: Global Influenza Surveillance and Response System (GISRS), FluNet (www.who.int/infonet)
Copyright WHO 2024. All rights reserved.

<https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates>, accessed 03/15/2024

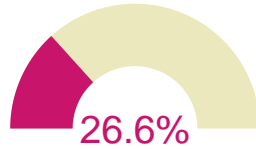


- In the countries of North America, influenza activity remained within or below expected levels for this time of year in Canada and remained elevated but may have peaked in the United States of America, with some indicators showing decreases.
- Positivity for influenza A viruses decreased in both countries while positivity for influenza B viruses increased slightly in Canada and remained stable in the USA. Influenza A(H1N1)pdm09 viruses predominated. In the USA, influenza-like illness (ILI) and influenza activity remained stable overall, and trends varied by region.

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

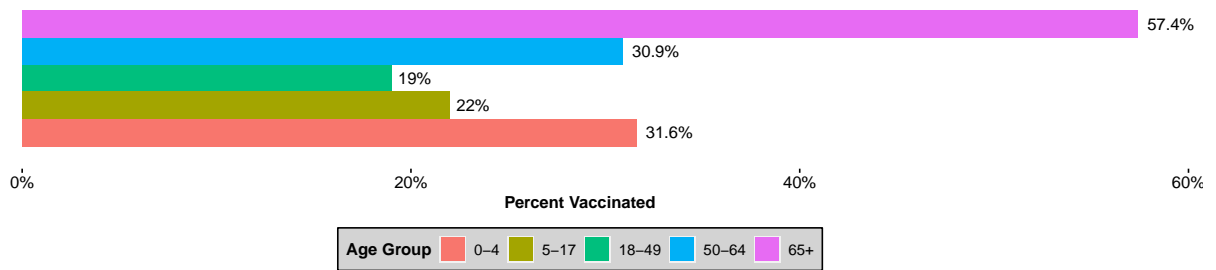
Overview

- City of Milwaukee residents who have received at least one dose of flu vaccinations as of March 15, 2024:

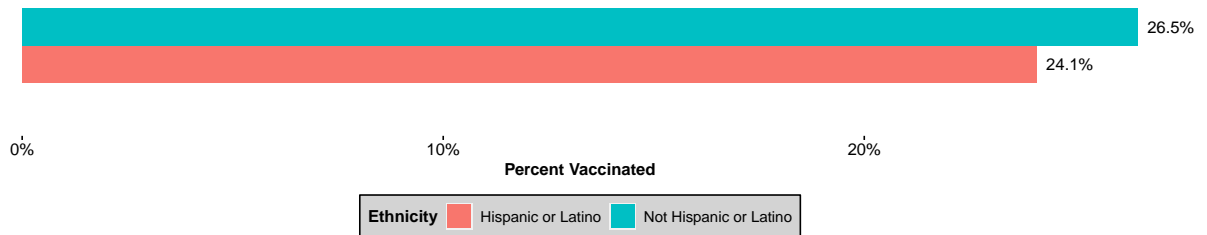


Influenza Vaccination Coverage for 2023-2024 Season by Demographics

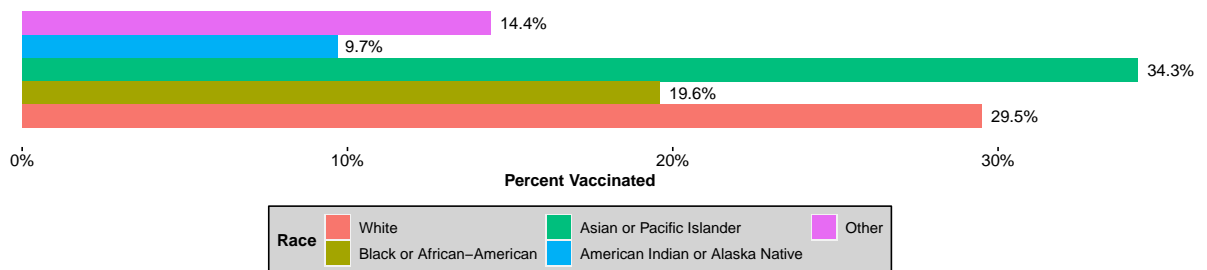
Influenza Vaccinations by Age Group



Influenza Vaccinations by Ethnicity

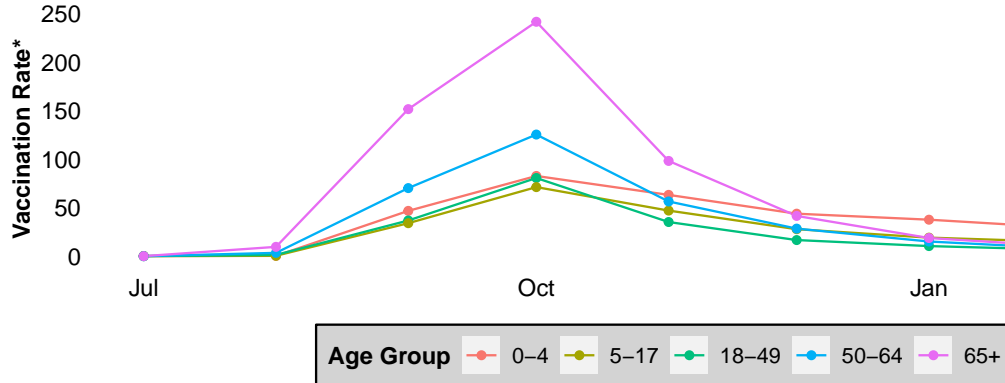


Influenza Vaccinations by Race



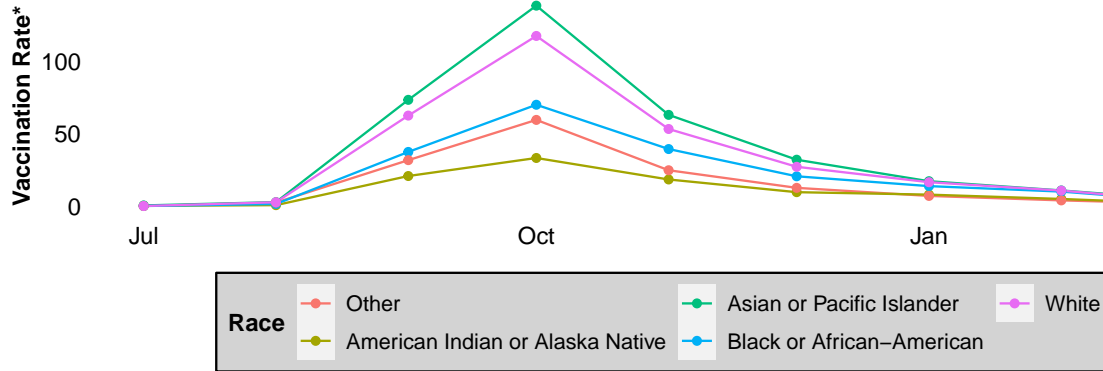
Vaccination Uptake Timelines

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

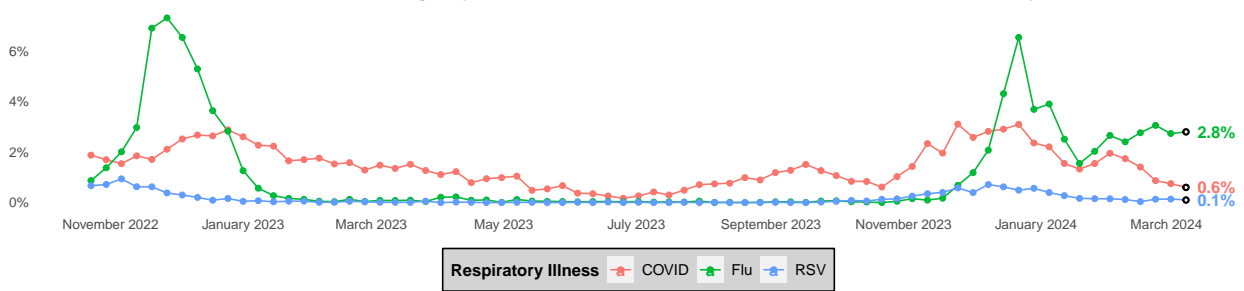
Influenza Vaccinations for Milwaukee Residents, 2023–24 Season by Month and Race



*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



COVID-19 Activity

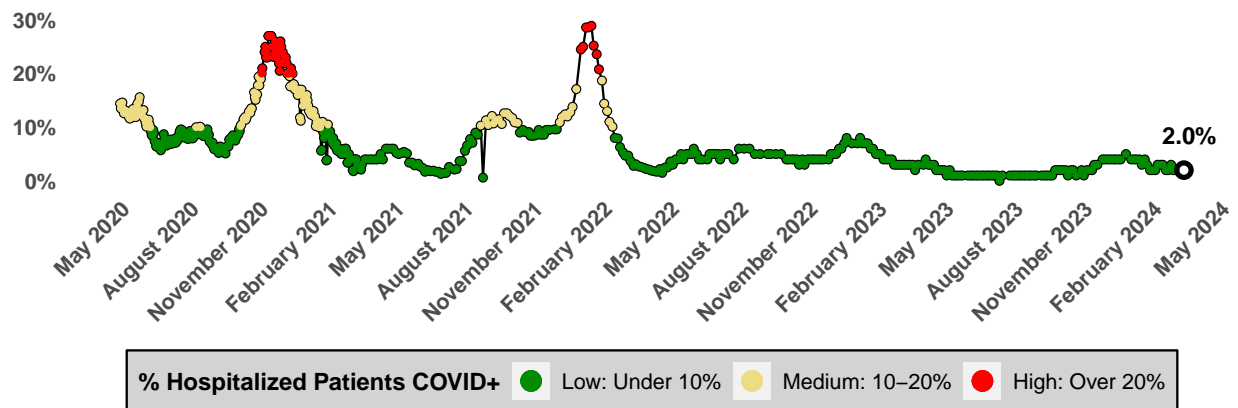
City of Milwaukee COVID-19 Vaccination Uptake

- As of March 15, 2024, 12% of city residents are up-to-date with their COVID-19 vaccinations.

COVID-19 Hospital Admission Metrics, Updated March 15, 2023

COVID-19 Hospital Admission Level - Low		
County Weekly Metrics Used to Determine the COVID-19 Hospital Admission Level	Comparison to Prior Week	
New hospital admissions of confirmed COVID-19, past week (total)	78	Down from 99
New COVID-19 admissions per 100,000 population	5	Down from 6.3
% Staffed inpatient beds occupied by patients with confirmed COVID-19 past week (average)	2.3%	Down from 2.5%

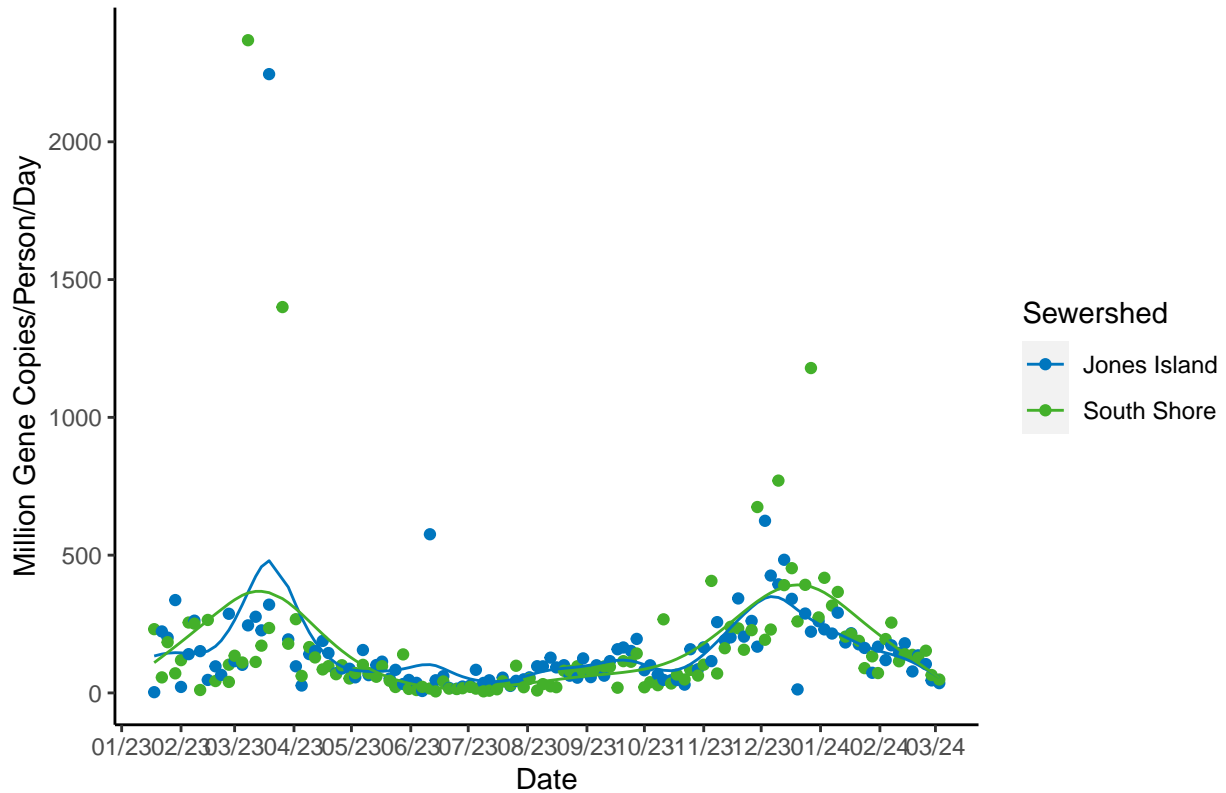
Hospitalized Patients that are COVID-19 Positive Timeline, Milwaukee County



Data Source: HERC Region 7
Last Update: 2024-03-14

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 14.29 percentile for Jones Island Sewershed and are in the 26.53 percentile for South Shore Sewershed. These measurements are *low* for Jones Island and *low* for South Shore.

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