

Milwaukee Respiratory Virus Surveillance Update

MMWR Week 1, Ending January 06, 2024

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Overview

County

- There were 31 influenza-associated hospitalizations reported in Milwaukee County during the week ending on January 06, 2024. From October 1, 2023 through January 06, 2024, there have been 268 reported influenza-associated hospitalizations in Milwaukee County (211 City of Milwaukee residents).

State

- Influenza-like illness (ILI) levels are above baseline in the southeastern region of the state.
- Influenza, RSV, and COVID-19 continue to circulating at a moderate to high level, though increase in activity have slowed.
- It is not too late to get an influenza or COVID-19 vaccine, as these viruses are still circulating and will likely continue to circulate at elevated levels for the next month. RSV vaccines are available for pregnant persons and adults greater than or equal to 60 years of age.

National

- Seasonal influenza activity remains elevated in most parts of the country. 7 states/jurisdictions experienced moderate ILI activity while 37 experienced high or very high activity. Wisconsin had high ILI activity in outpatient visits.
- 4 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:

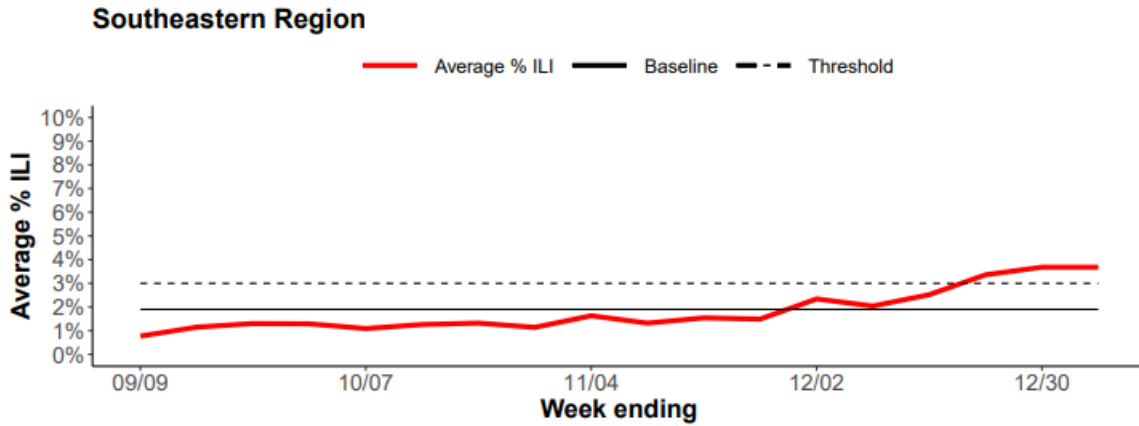
- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

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
40	125	4	Thirteen influenza-associated pediatric deaths occurring during the 2023-2024 season were reported to CDC during Week 1. The deaths occurred between Week 49 of 2023 (the week ending December 9, 2023) and Week 1 of 2024 (the week ending January 6, 2024). Six deaths were associated with influenza A viruses. Two of the influenza A viruses had subtyping performed; one was an A(H1N1) virus and one was an A(H3N2) virus. Seven deaths were associated with influenza B viruses. Three of the influenza B viruses had lineage determined and all were B/Victoria viruses.

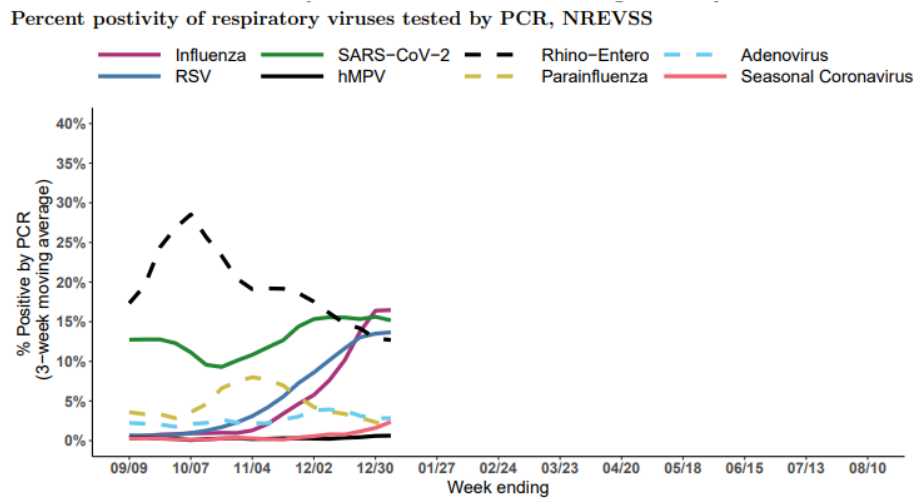
Statewide and Regional Influenza Activity

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, January 06, 2024

Respiratory Virus Laboratory Surveillance



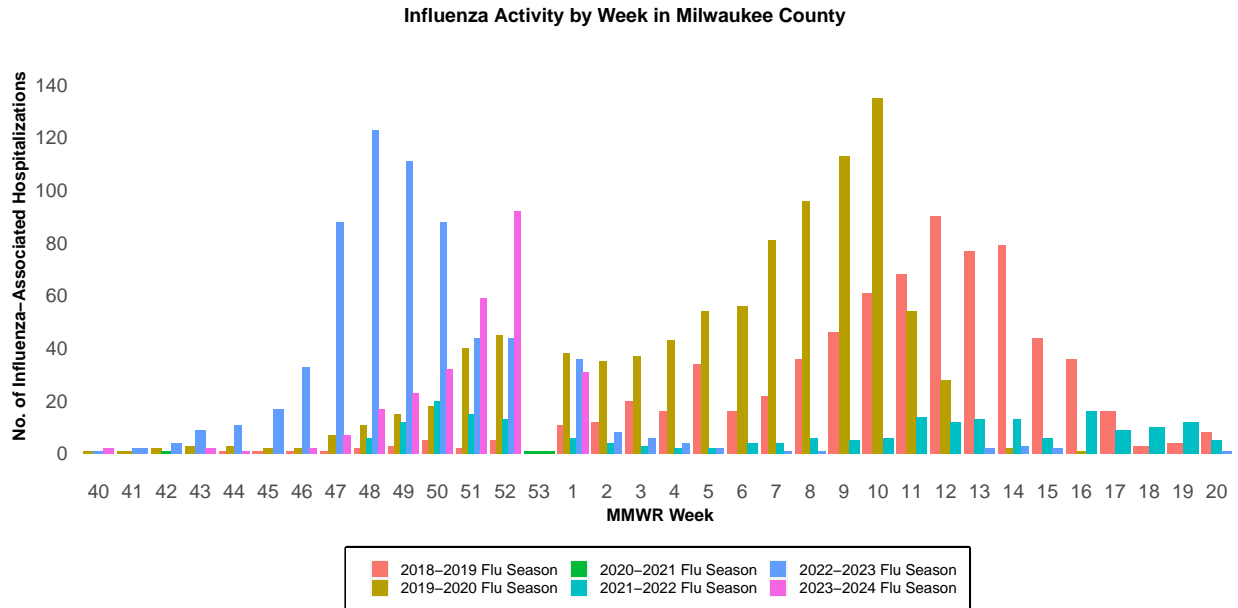
RSV = respiratory syncytial virus, hMPV = human metapneumovirus

Wisconsin Department of Health Services Respiratory Virus Surveillance Report, January 06, 2024

Milwaukee County Influenza Activity

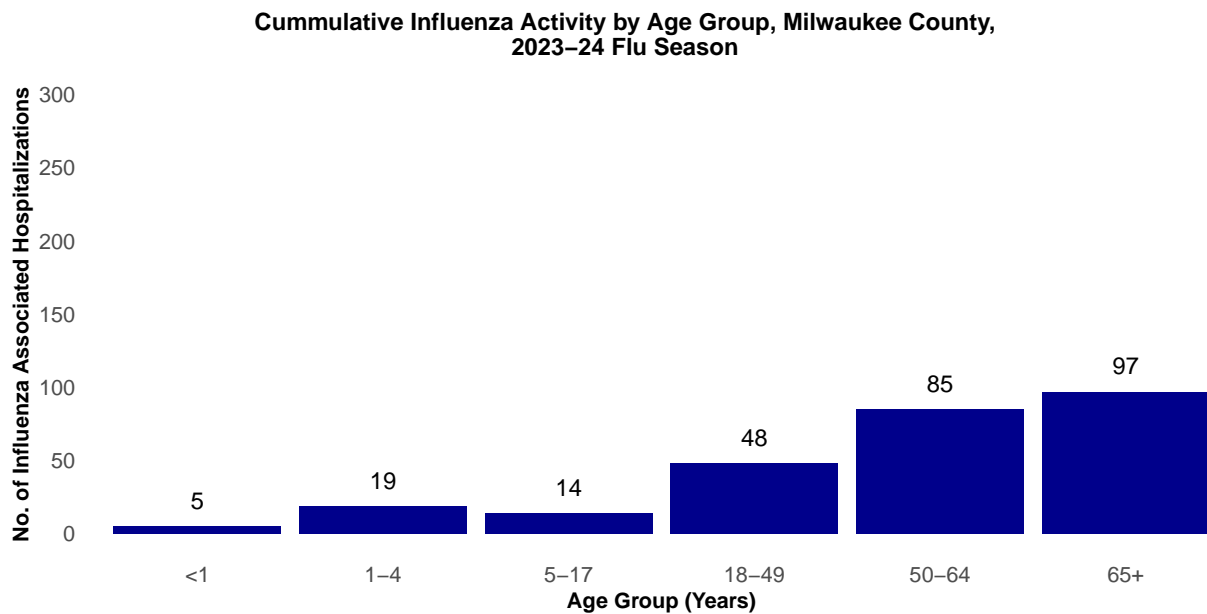
From October 1, 2023 through January 06, 2024 there have been 268 reported influenza-associated hospitalizations in Milwaukee County.

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 1, 2023



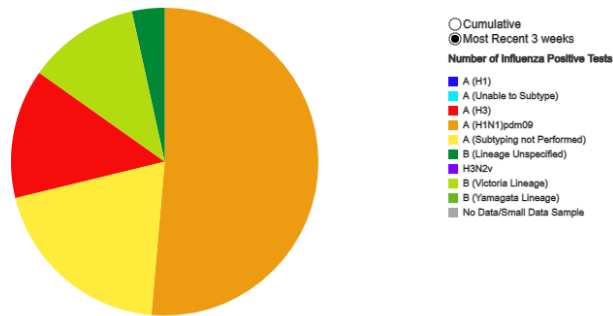
Influenza Testing Data

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	1,412,848	123,398	15,018/107,334(14%)	(H1N1)pdm09	Victoria	A
WSLH	-	-	2,123/12,161(17.5%)	Unknown	Unknown	A
MHDL	123	34	1/11(9.1%)	H3N2	Unknown	A

National Influenza Testing Data, CDC FluView

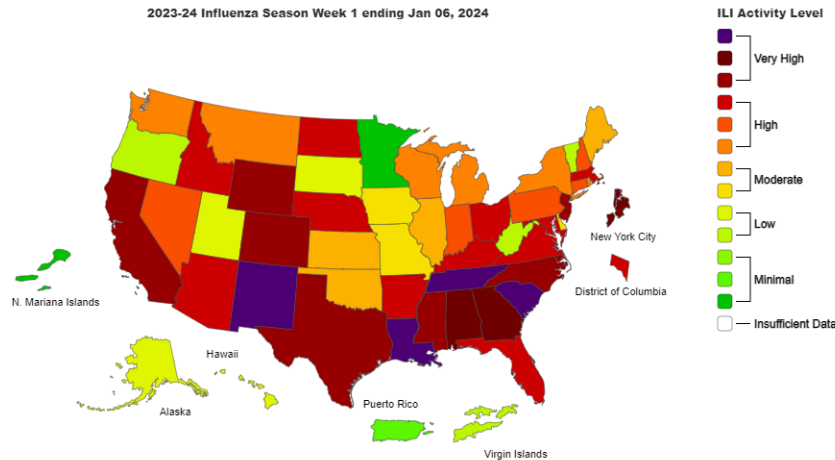
Influenza Positive Tests Reported to CDC by Public Health Laboratories, National Summary, 2023-24 Season, week ending Jan 06, 2024
Reported by: U.S. WHONREVS Collaborating Laboratories and ILINet



<http://gis.cdc.gov/grasp/fluview/fluportaldashboard.html> accessed 01/12/2024

National Influenza Activity

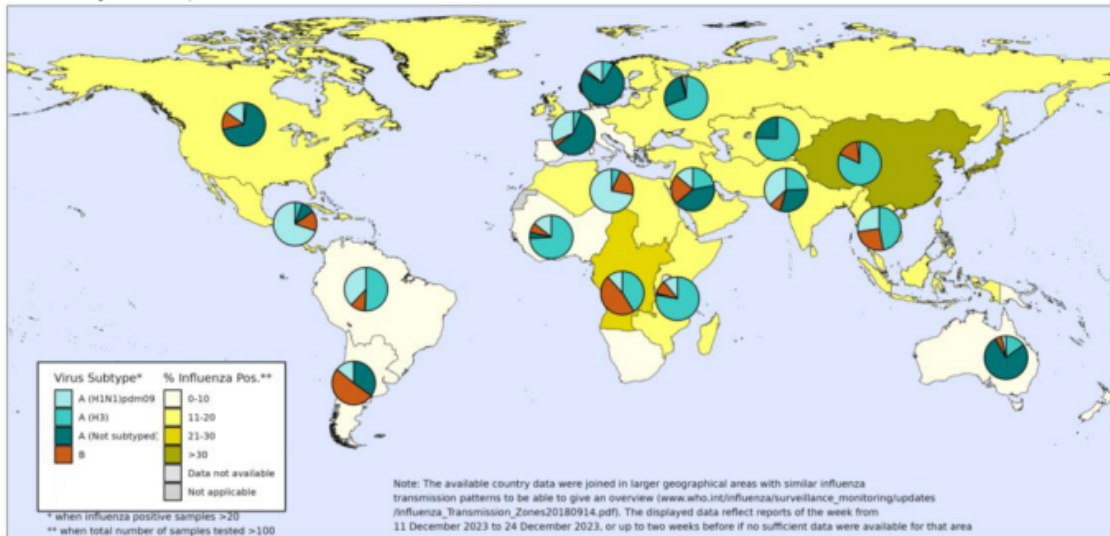
Outpatient Respiratory Illness Activity Map, CDC FluView



<https://www.cdc.gov/flu/weekly/index.htm#MS2> accessed 01/12/2024

Global Influenza Activity

Percentage of respiratory specimens testing positive for influenza, by influenza transmission zone.¹ Map generated on 05 January 2024. (The displayed data reflects reports of the weeks from 11 to 24 December 2023 or up to two weeks before if insufficient data were available for an area for that period.)

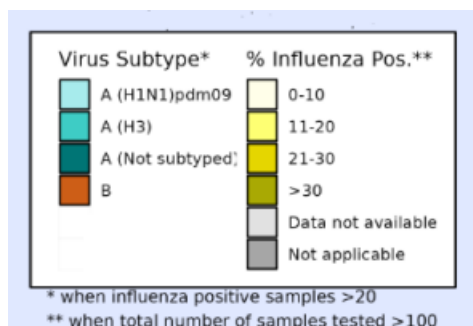


The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers 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/fluinet)
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<https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates>, accessed 01/12/2024

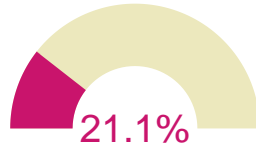


- Globally, influenza detections increased due to increases in the temperate Northern hemisphere, mainly in parts of Europe, Central Asia and North America
- In the countries of North America, influenza activity continued to increase and was near expected levels for this time of year. Influenza hospitalizations have increased in recent weeks. Influenza A(H1N1)pdm09 viruses predominated among the detections.

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

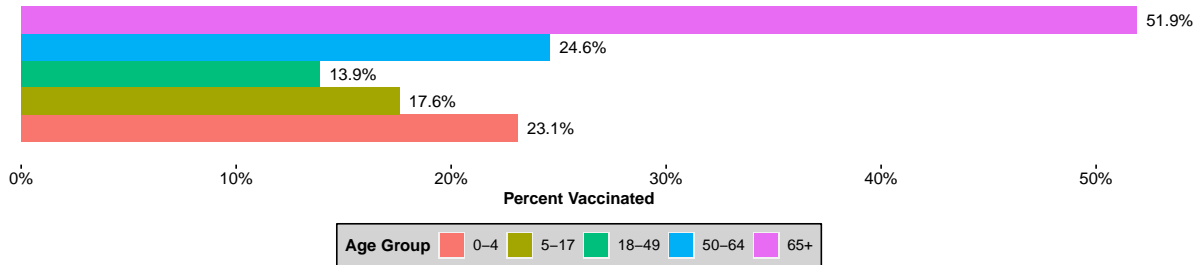
Overview

- City of Milwaukee residents who have received at least one dose of flu vaccinations as of January 10, 2024:

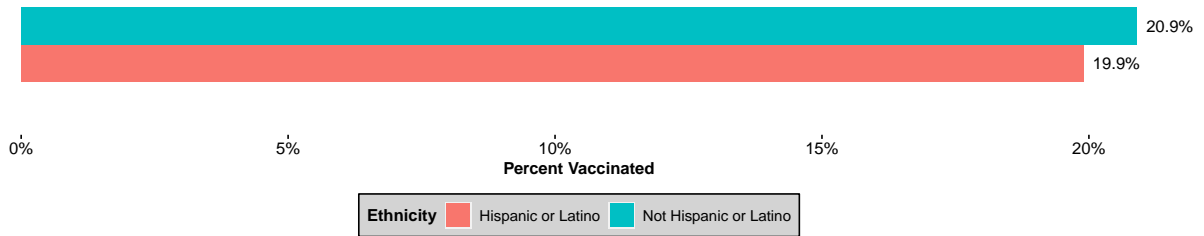


Influenza Vaccination Coverage for 2023-2024 Season by Demographics

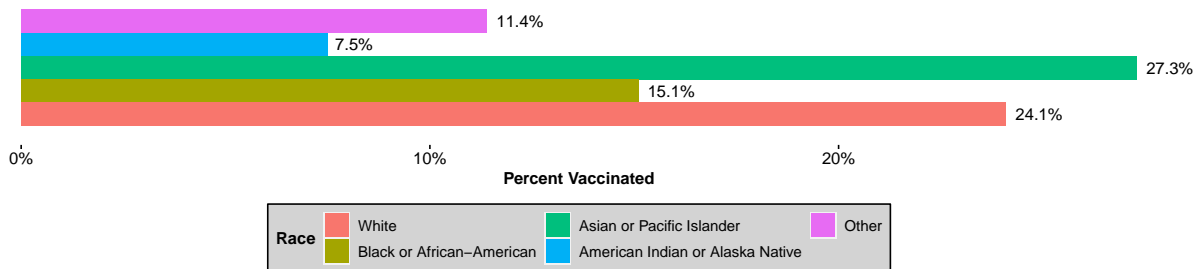
Influenza Vaccinations by Age Group



Influenza Vaccinations by Ethnicity

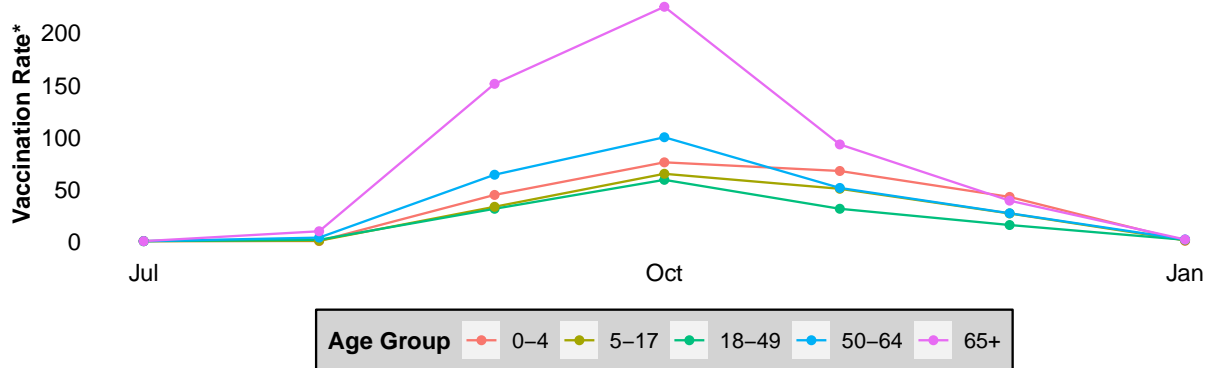


Influenza Vaccinations by Race



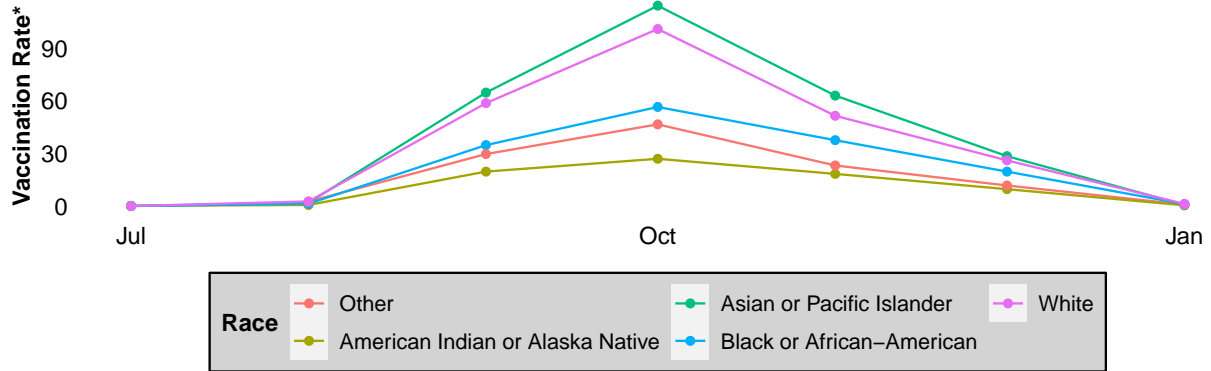
Vaccination Uptake Timelines

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

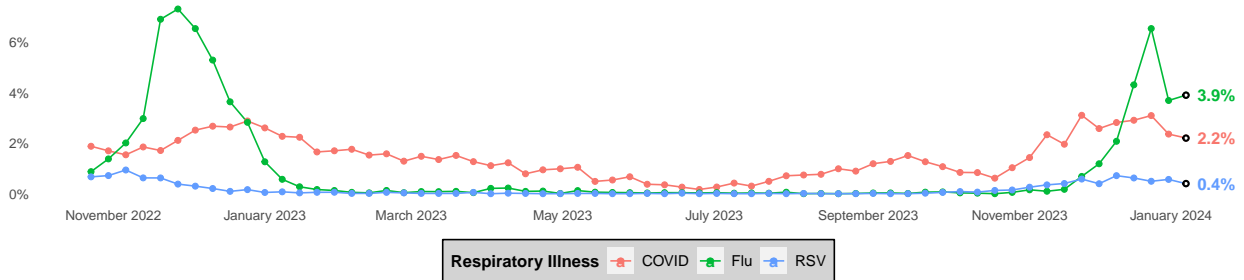
Influenza Vaccinations for Milwaukee Residents, 2023–24 Season by Month and Race



*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

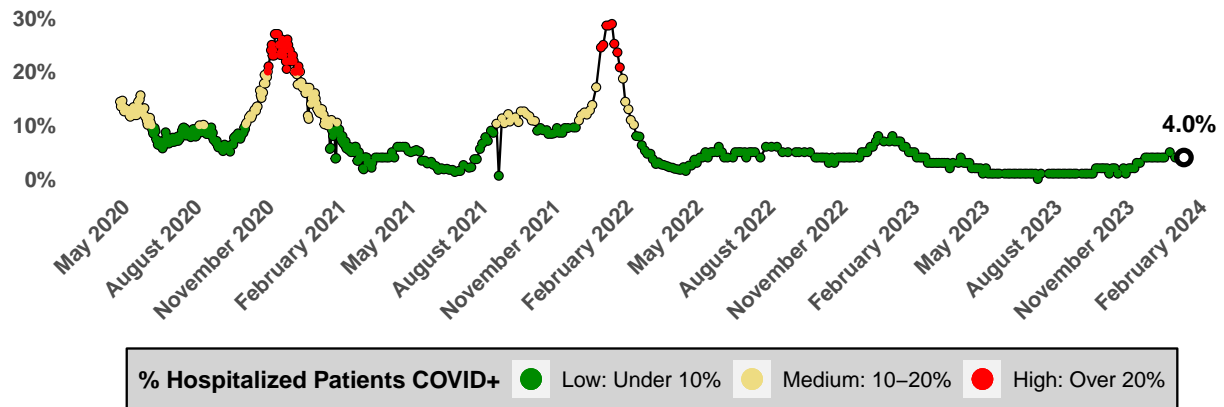
City of Milwaukee COVID-19 Vaccination Uptake

- As of January 10, 2024, 7.1% of city residents are up-to-date with their COVID-19 vaccinations.

COVID-19 Hospital Admission Metrics, Updated December 30, 2023

COVID-19 Hospital Admission Level - High		
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)	323	Up from 300
New COVID-19 admissions per 100,000 population	20.5	Up from 19
% Staffed inpatient beds occupied by patients with confirmed COVID-19 past week (average)	5%	Up from 4.6%

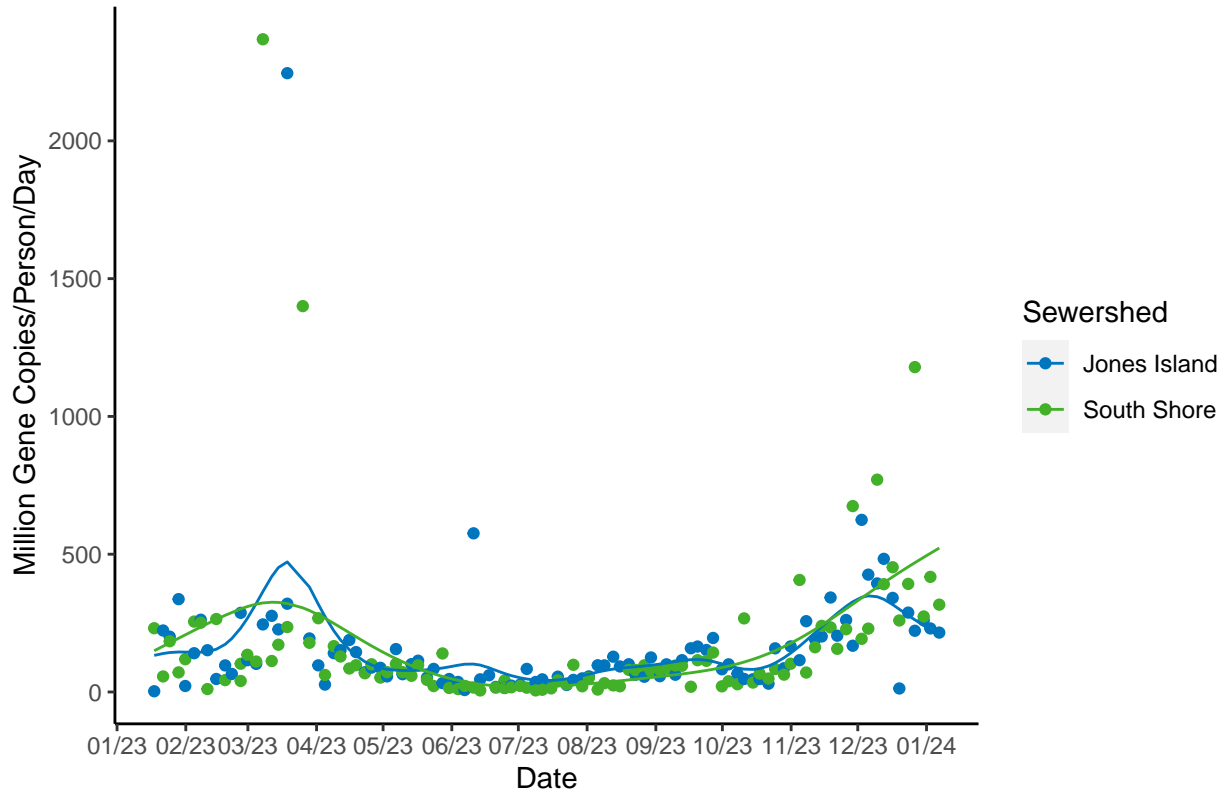
Hospitalized Patients that are COVID-19 Positive Timeline, Milwaukee County



Data Source: HERC Region 7
Last Update: 2024-01-15

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 80 percentile for Jones Island Sewershed and are in the 84 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.

Please note that at this time, the values reported here are slightly different than the values reported for Jones Island and South Shore on the DHS COVID-19 Wastewater Dashboard – this is not an error. The differences are due to the Milwaukee Health Department Lab (MHDL) using different methodologies than the lab who sends data to DHS.