



CITY OF MILWAUKEE
HEALTH DEPARTMENT

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Milwaukee Respiratory Virus Surveillance Update

MMWR Week 3, Ending January 20, 2024

Table of Contents

Overview	2
Statewide and Regional Influenza Activity	3
Respiratory Virus Laboratory Surveillance	3
Milwaukee County Influenza Activity.....	4
Influenza Testing Data	5
National Influenza Activity.....	5
Global Influenza Activity	6
Influenza Vaccination Uptake by City of Milwaukee Residents, 2023-2024 Season	7
Respiratory Illness Emergency Department Visits in Milwaukee County	8
COVID-19 Activity	9
SARS-CoV-2 Wastewater Surveillance	10

Overview

County

- There were 0 influenza-associated hospitalizations reported in Milwaukee County during the week ending on January 29, 2024. From October 1, 2023 through January 29, 2024, there have been 363 reported influenza-associated hospitalizations in Milwaukee County (273 City of Milwaukee residents).

State

- Influenza-like illness (ILI) activity is decreasing across Wisconsin.
- Influenza, RSV, and COVID-19 continue to circulate across Wisconsin, though activity of all viruses is decreasing.
- The fourth RSV-associated pediatric death in Wisconsin was reported this week.

National

- Seasonal influenza activity remains elevated in most parts of the country. This week 12 jurisdictions experienced high or very high activity.
- 0 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:

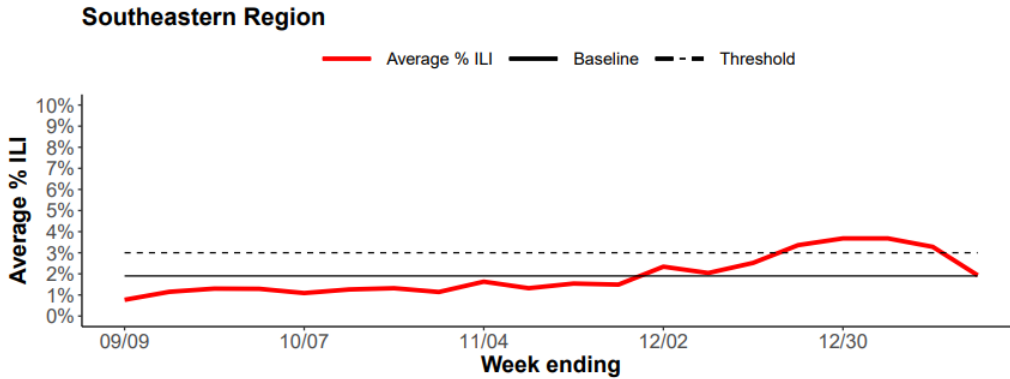
- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

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
47	134	3	Ten influenza-associated pediatric deaths occurring during the 2023-2024 season were reported to CDC during Week 3. The deaths occurred between Week 51 of 2023 (the week ending December 23, 2023) and Week 2 of 2024 (the week ending January 13, 2024). Six deaths were associated with influenza A viruses. Three of the influenza A viruses had subtyping performed and all were A(H1N1) viruses. 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/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.

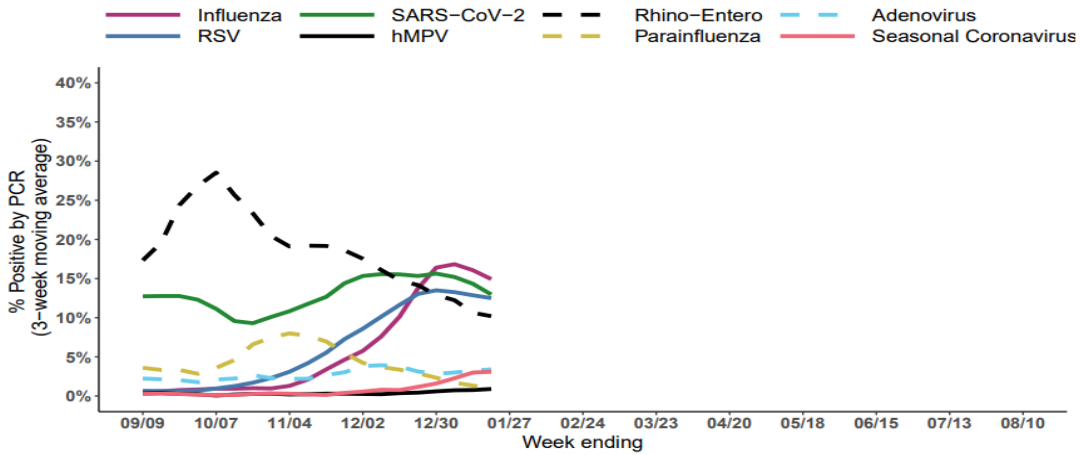


Wisconsin Department of Health Services Respiratory Virus Surveillance Report, January 13, 2024

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 3, Ending on January 20, 2024

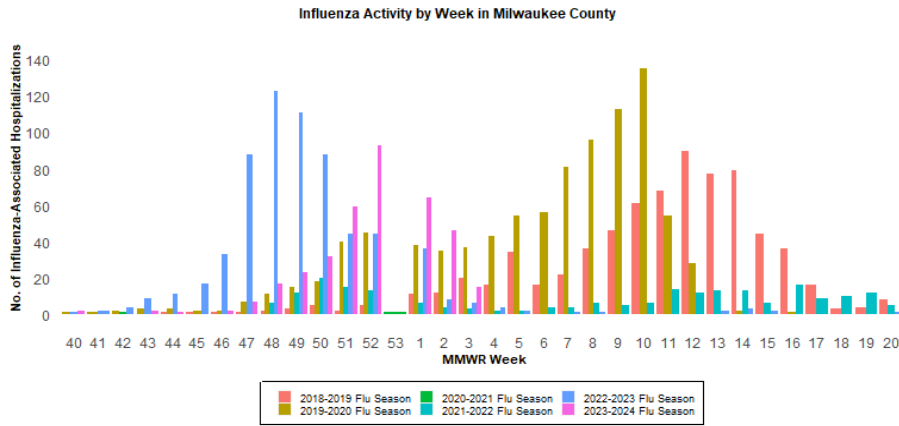
RSV = respiratory syncytial virus, *hMPV* = human metapneumovirus

Wisconsin Department of Health Services Respiratory Virus Surveillance Report, January 13, 2024

Milwaukee County Influenza Activity

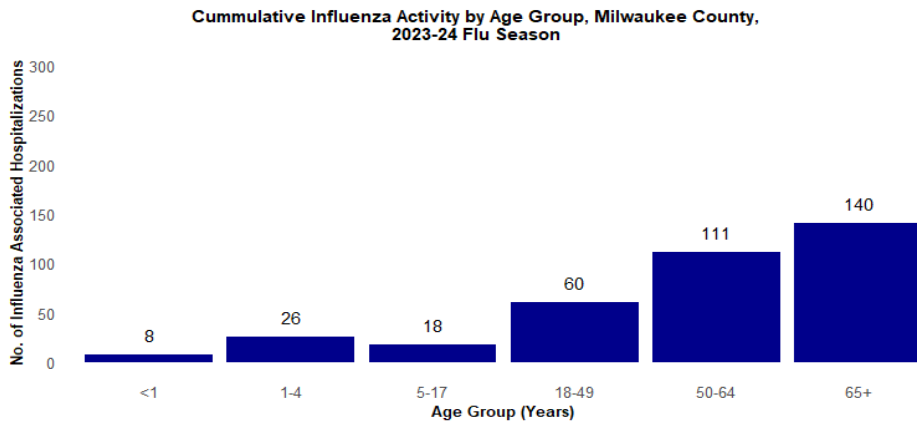
From October 1, 2023 through January 29, 2024 there have been 363 reported influenza-associated hospitalizations in Milwaukee County.

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 4, 2023



Influenza Testing Data

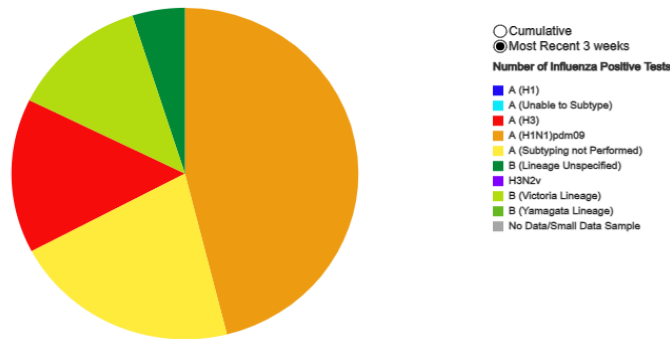
Public Health Laboratory Influenza Testing Data To-Date (Since Week 40)

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	1,649,919	156,919	12,194/85,664 (14.2%)	(H1N1)pdm09	Victoria	A
WSLH	-	-	1,517/10,116 (15%)	Unknown	Unknown	A
MHDL	134	36	0/0 (N/A%)	H3N2	Unknown	A

National Influenza Testing Data, CDC FluView



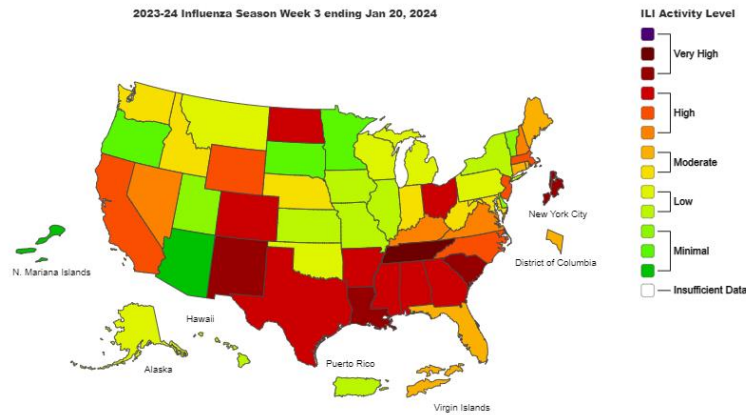
Influenza Positive Tests Reported to CDC by Public Health Laboratories, National Summary, 2023-24 Season, week ending Jan 20, 2024
Reported by: U.S. WHOINREVSS Collaborating Laboratories and ILINet



<http://gis.cdc.gov/grasp/fluview/fluportaldashboard.html> accessed 01/26/2024

National Influenza Activity

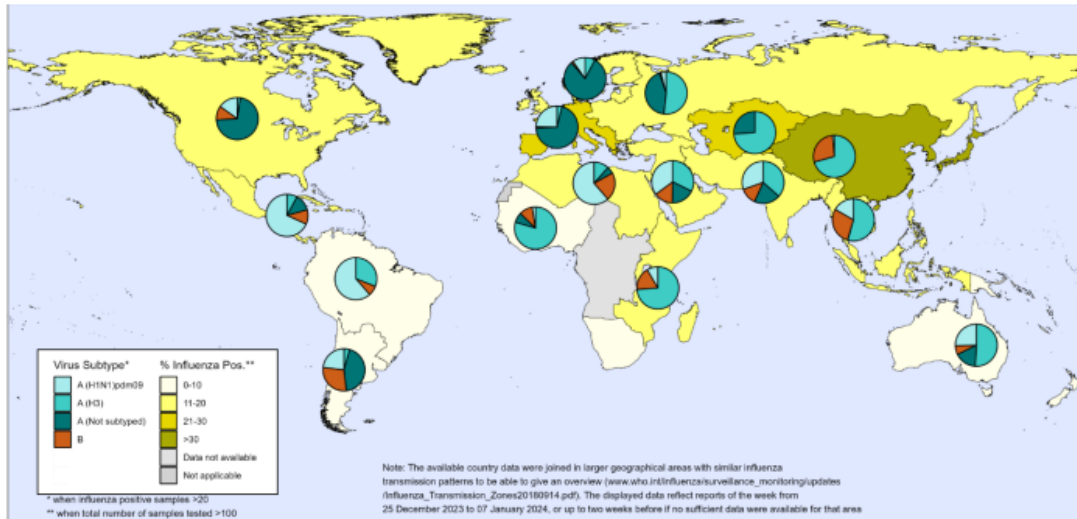
Outpatient Respiratory Illness Activity Map, CDC FluView



<https://www.cdc.gov/flu/weekly/index.htm#MS2> accessed 01/26/2024

Global Influenza Activity

Percentage of respiratory specimens testing positive for influenza, by influenza transmission zone.¹ Map generated on 19 January 2024. (The displayed data reflects reports of the weeks from 25 December 2023 to 07 January 2024 or up to two weeks before if insufficient data were available for an area for that period.)

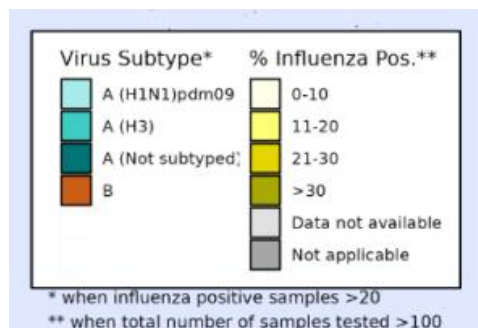


The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers 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/flu-net)
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<https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates>, accessed 01/26/2024

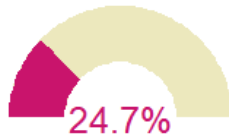


- Globally, SARS-CoV-2 positivity from sentinel surveillance remained around 8%. Positivity decreased to around 9% in the Region of the Americas in the latest week, following increases in previous weeks.
- In the countries with RSV surveillance in place, RSV activity remained stable in North America.

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

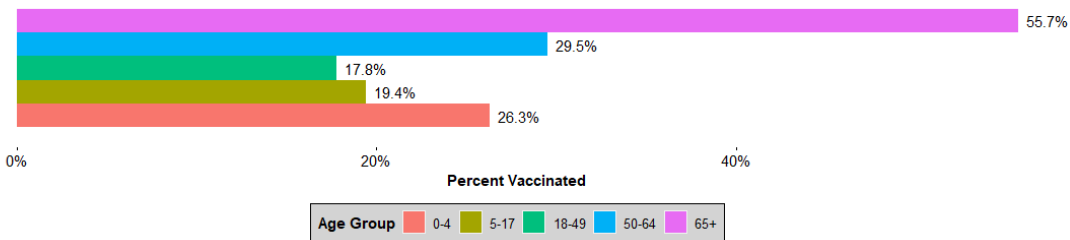
Overview

- City of Milwaukee residents who have received at least one dose of flu vaccinations as of January 17, 2024:

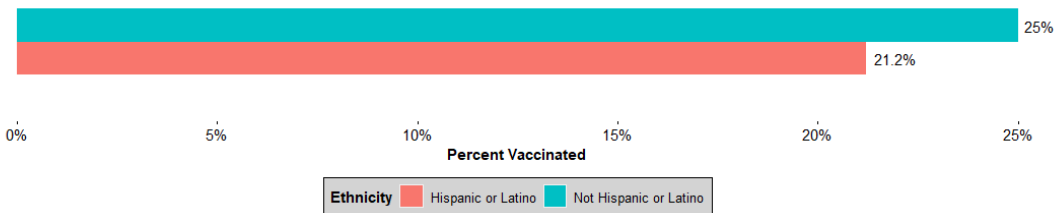


Influenza Vaccination Coverage for 2023-2024 Season by Demographics

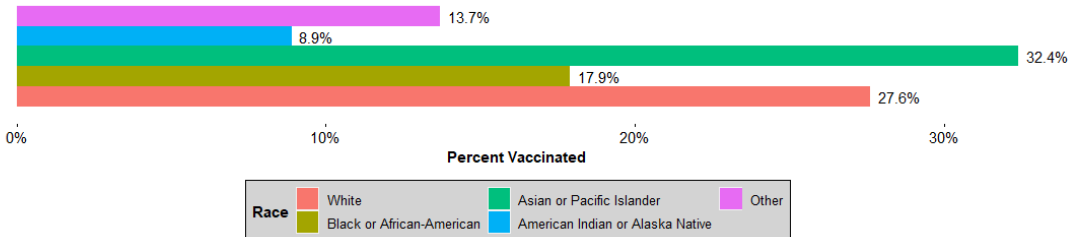
Influenza Vaccinations by Age Group



Influenza Vaccinations by Ethnicity

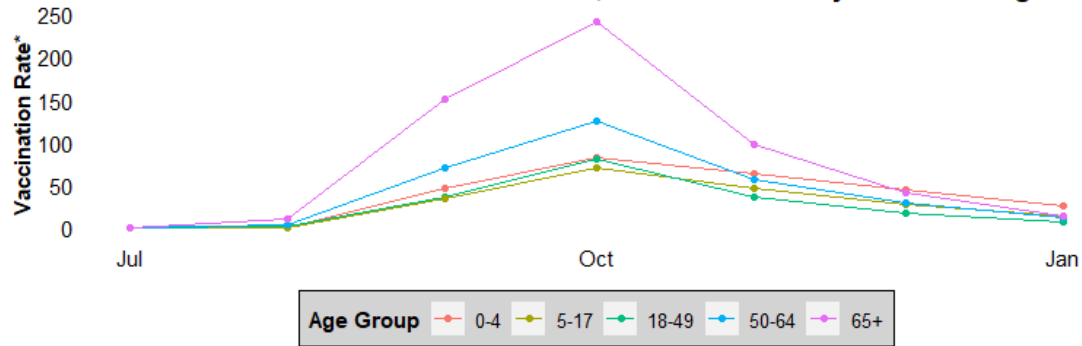


Influenza Vaccinations by Race



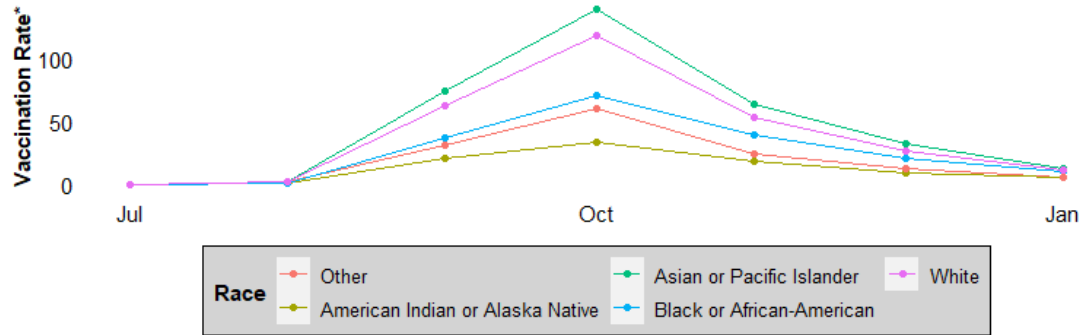
Vaccination Uptake Timelines

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

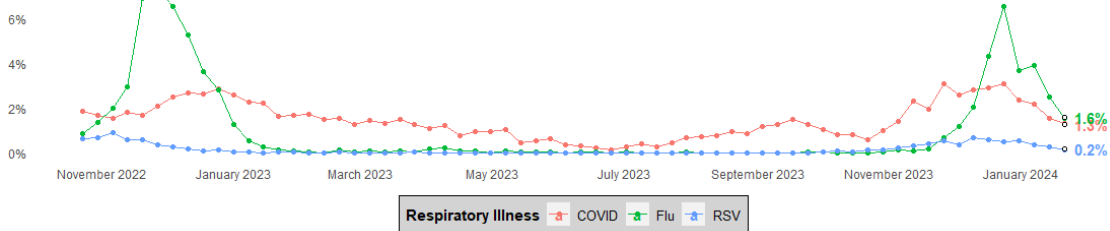
Influenza Vaccinations for Milwaukee Residents, 2023-24 Season by Month and Race



*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

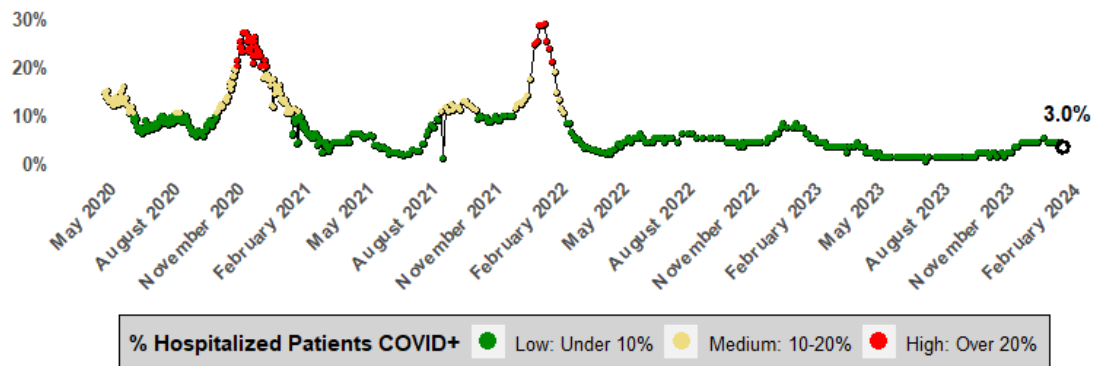
City of Milwaukee COVID-19 Vaccination Uptake

- As of January 26, 2024, 7.4% of city residents are up-to-date with their COVID-19 vaccinations.

COVID-19 Hospital Admission Metrics, Updated January 26, 2023

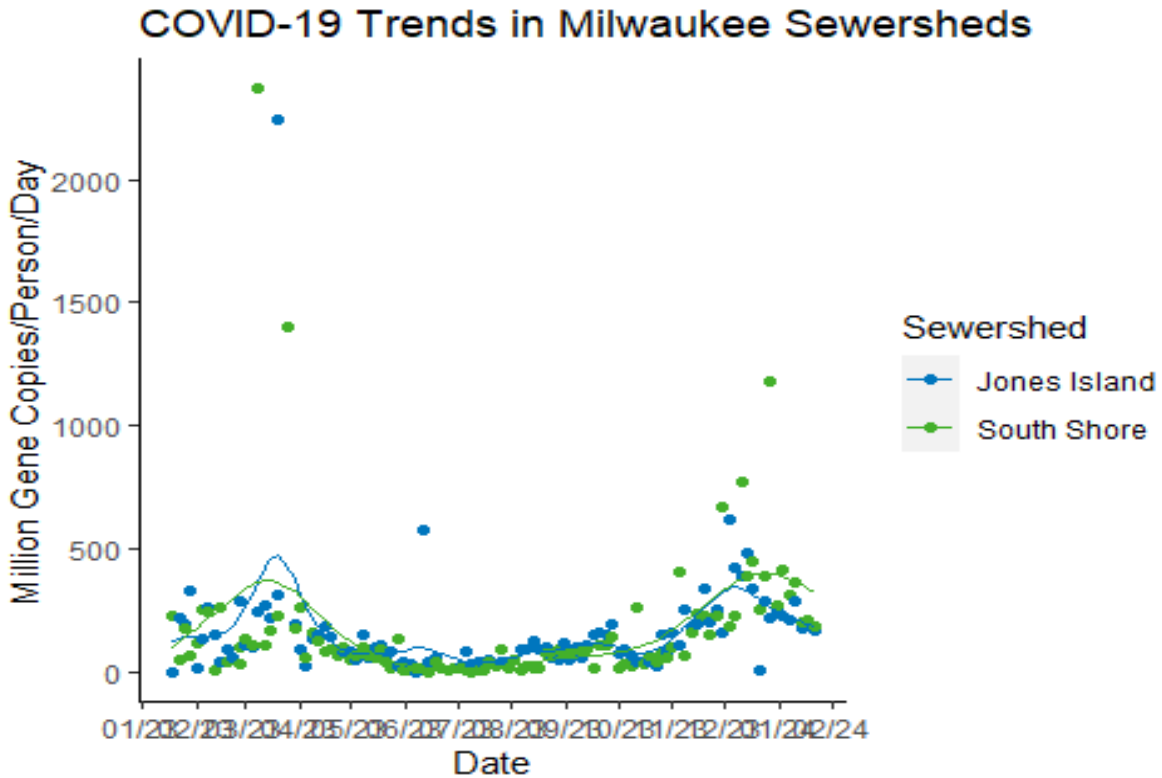
COVID-19 Hospital Admission Level - High		
County Weekly Metrics Used to Determine the COVID-19 Hospital Admission Level	Comparison to Prior Week	
New hospital admissions of confirmed COVID-19, past week (total)	175	Down from 206
New COVID-19 admissions per 100,000 population	11.1	Down from 13.1
% Staffed inpatient beds occupied by patients with confirmed COVID-19 past week (average)	3.8%	Down from 4.6%

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



Data Source: HERC Region 7
Last Update: 2024-01-25

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 64 percentile for Jones Island Sewershed and are in the 62 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.

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.