CITY OF MILWAUKEE
HEALTH DEPARTMENT
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Milwaukee Respiratory Virus Surveillance Update
MMWR Week 2, Ending January 13, 2024

Contents

Overview

County

- There were 22 influenza-associated hospitalizations reported in Milwaukee County during the week ending on January 13, 2024. From October 1, 2023 through January 13, 2024, there have been 324 reported influenza-associated hospitalizations in Milwaukee County (248 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 circulate at moderate to high levels, though increases in activity have slowed.
- Influenza percent positivity increased slightly over the past week, with an increase in ED visits for influenza among school-aged children.

National

- Seasonal influenza activity remains elevated in most parts of the country. 14 states/jurisdictions experienced moderate ILI activity while 25 experienced high or very high activity. Wisconsin had moderate ILI activity in outpatient visits.
- 3 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:

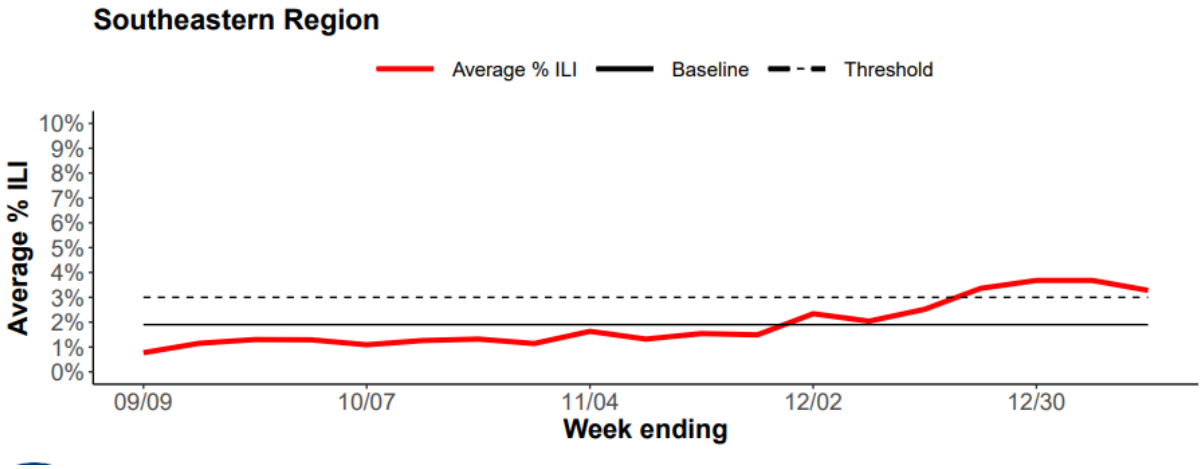
- an A/Victoria/4897/2022 (H1N1)pdm09-like virus;
- an A/Darwin/9/2021 (H3N2)-like virus;
- a B/Austria/1359417/2021 (B/Victoria lineage)-like virus; and
- a B/Phuket/3073/2013 (B/Yamagata lineage)-like virus

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	Seven influenza-associated pediatric deaths occurring during the 2023-2024 season were reported to CDC during Week 2. The deaths occurred between Week 48 of 2023 (the week ending December 2, 2023) and Week 1 of 2024 (the week ending January 6, 2024). Two deaths were associated with influenza A viruses for which no subtyping was performed and five deaths were associated with influenza B viruses with no lineage determined.

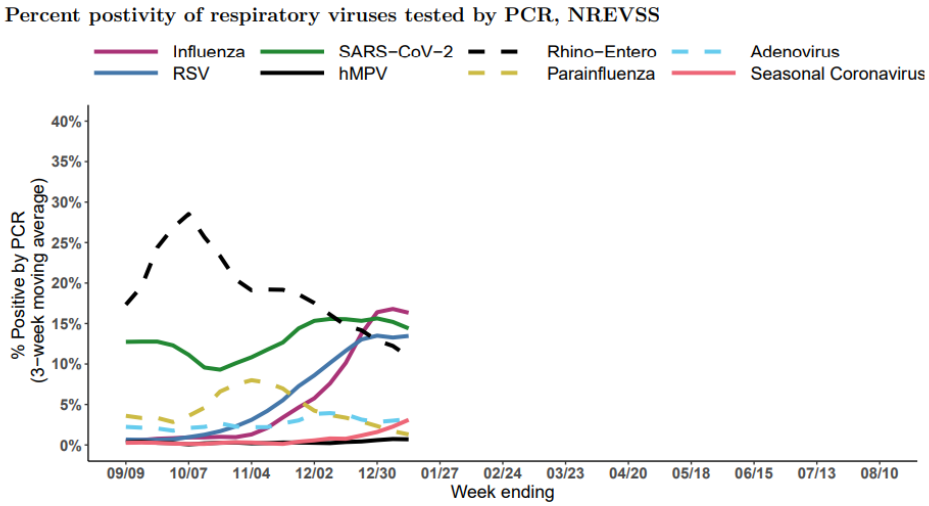
Statewide and Regional Influenza Activity

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



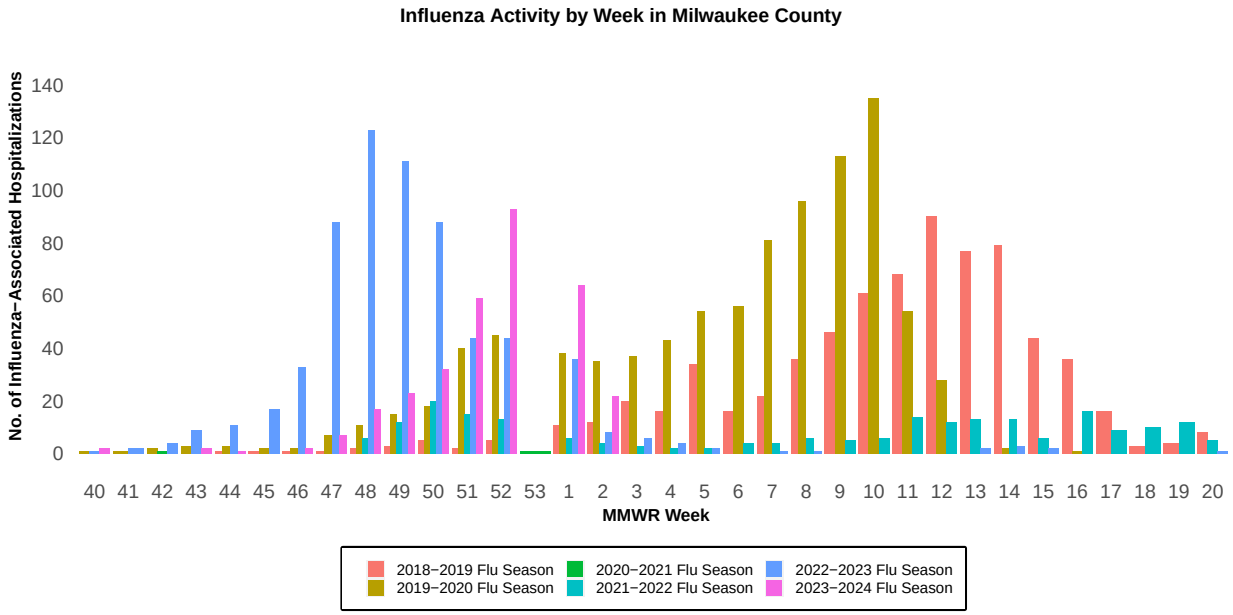
RSV = respiratory syncytial virus, hMPV = human metapneumovirus

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

Milwaukee County Influenza Activity

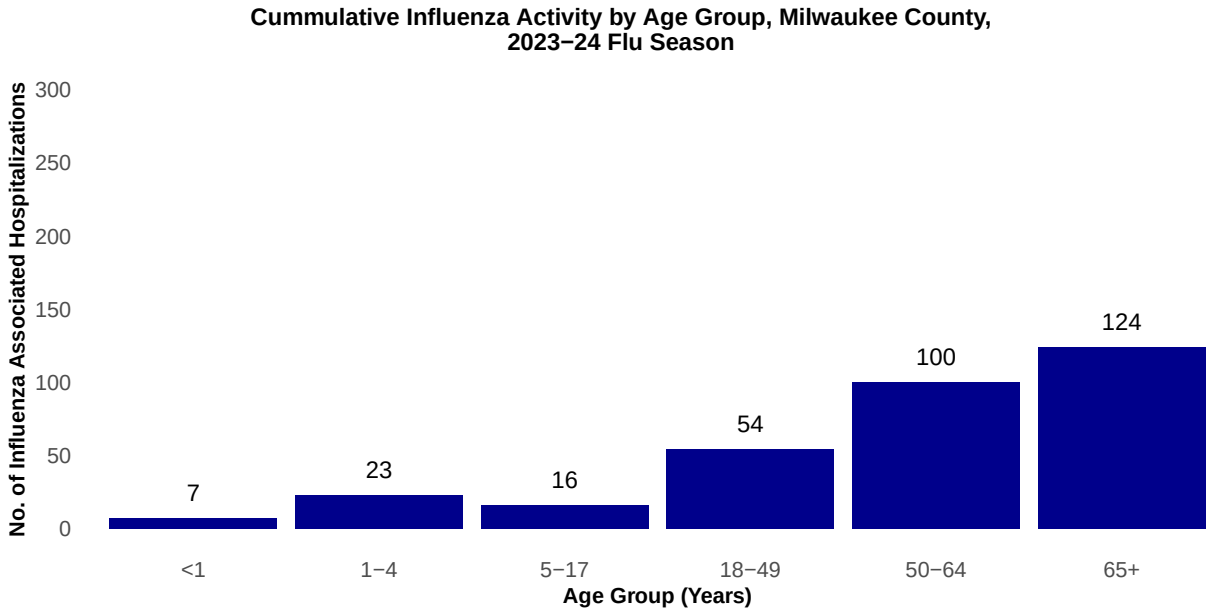
From October 1, 2023 through January 13, 2024 there have been 324 reported influenza-associated hospitalizations in Milwaukee County.

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 2, 2023

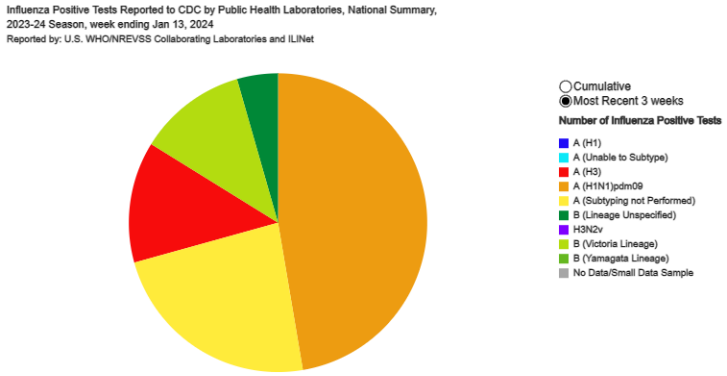


Influenza Testing Data

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	1,511,701	139,669	13,006/94,815(13.7%)	(H1N1)pdm09	Victoria	A
WSLH	-	-	1,827/11,245(16.2%)	Unknown	Unknown	A
MHDL	134	36	2/11(18.2%)	H3N2	Unknown	A

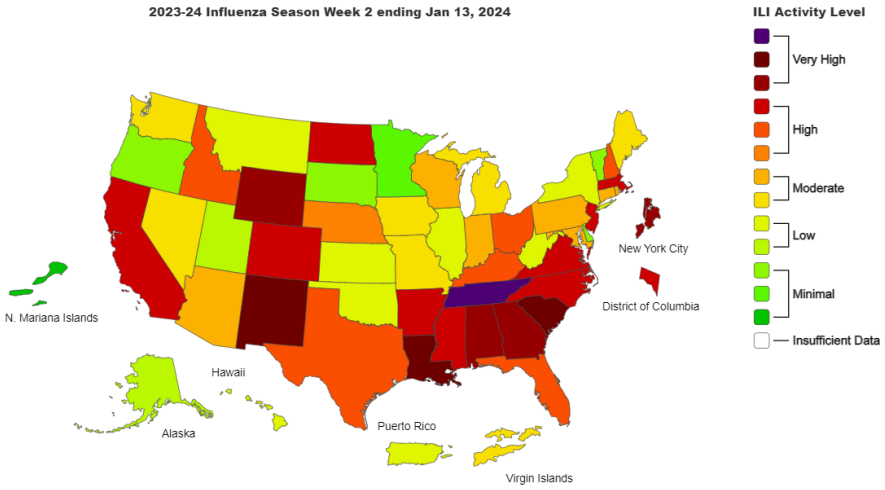
National Influenza Testing Data, CDC FluView



http://gis.cdc.gov/grasp/fluview/fluportaldashboard.html accessed 01/19/2024

National Influenza Activity

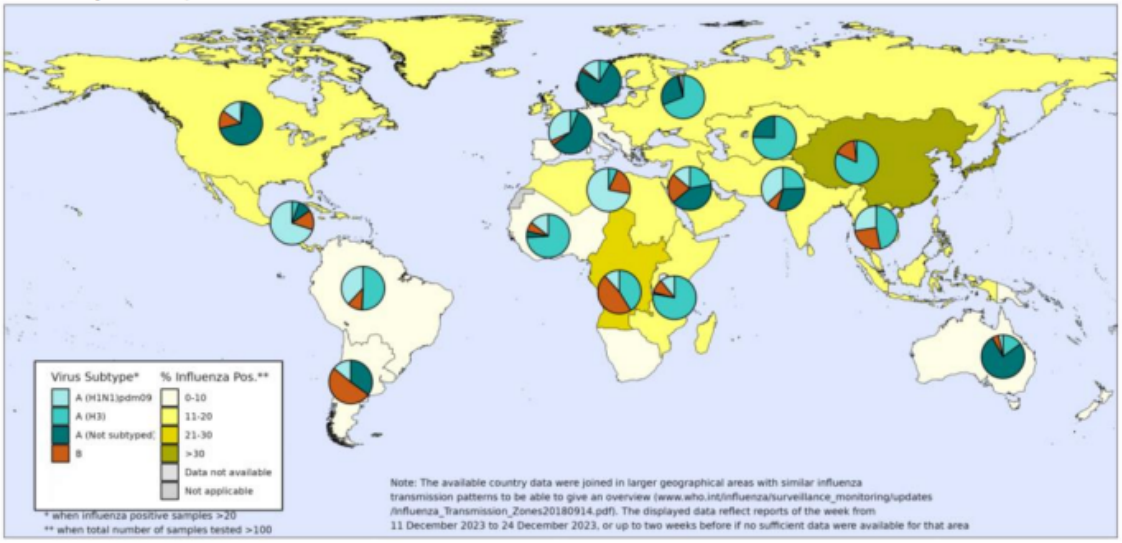
Outpatient Respiratory Illness Activity Map, CDC FluView



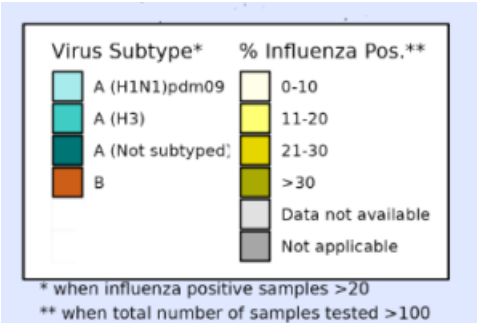
https://www.cdc.gov/flu/weekly/index.htm#MS2 accessed 01/19/2024

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.)



https://www.who.int/teams/global-influenza-programme/surveillance-and-monitoring/influenza-updates, accessed 01/19/2024

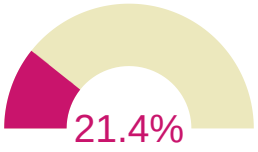


- Globally, influenza detections increased due to increases in the temperate Northern hemisphere, mainly in parts of Europe, Central Asia and North America
- In the countries of North America, influenza activity continued to increase and was near expected levels for this time of year. Influenza hospitalizations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

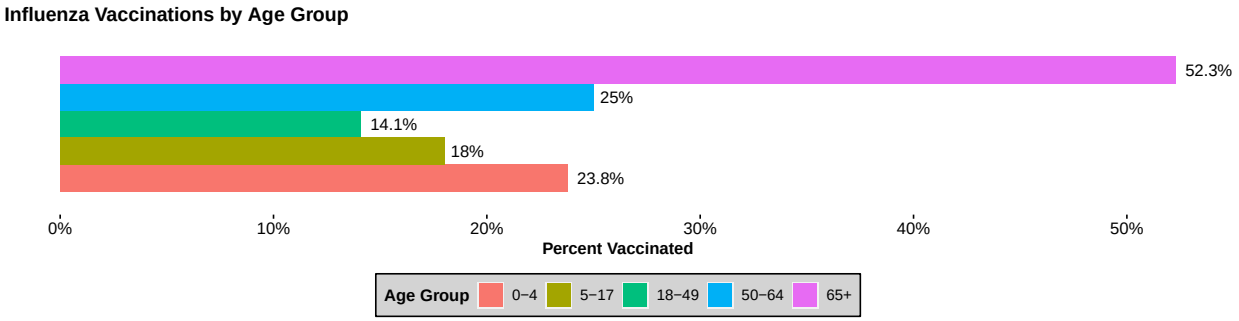
Influenza Vaccination Uptake by City of Milwaukee Residents, 2023-2024 Season

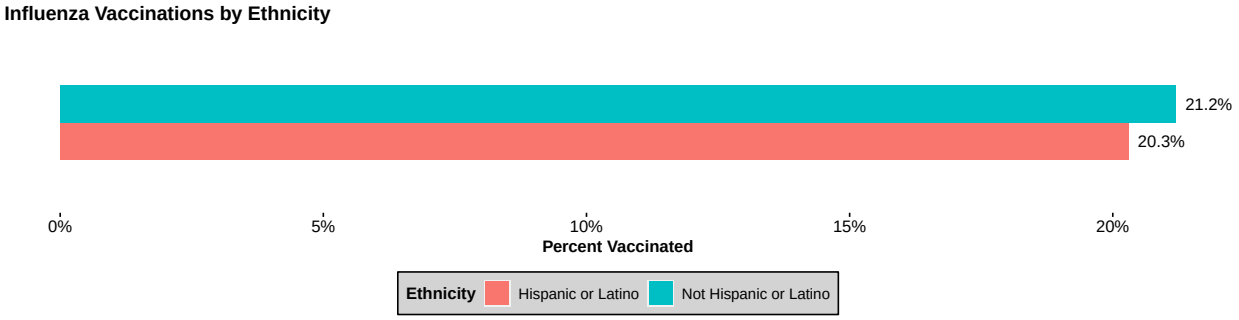
Overview

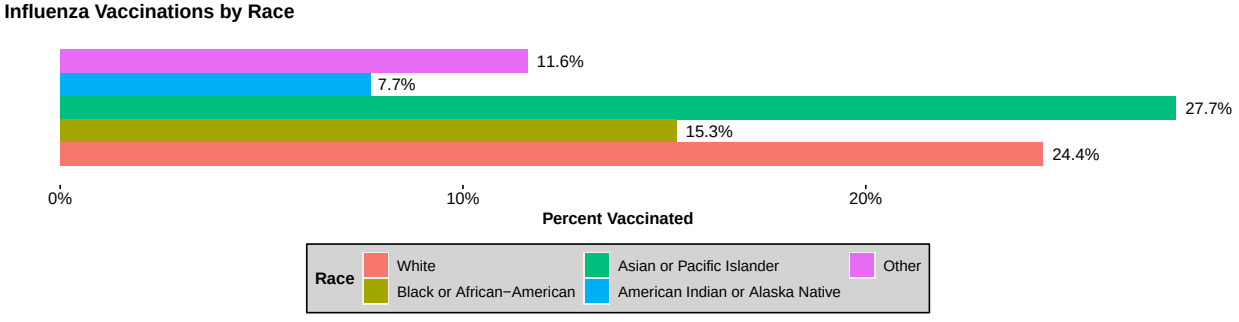
- City of Milwaukee residents who have received at least one dose of flu vaccinations as of January 17, 2024:



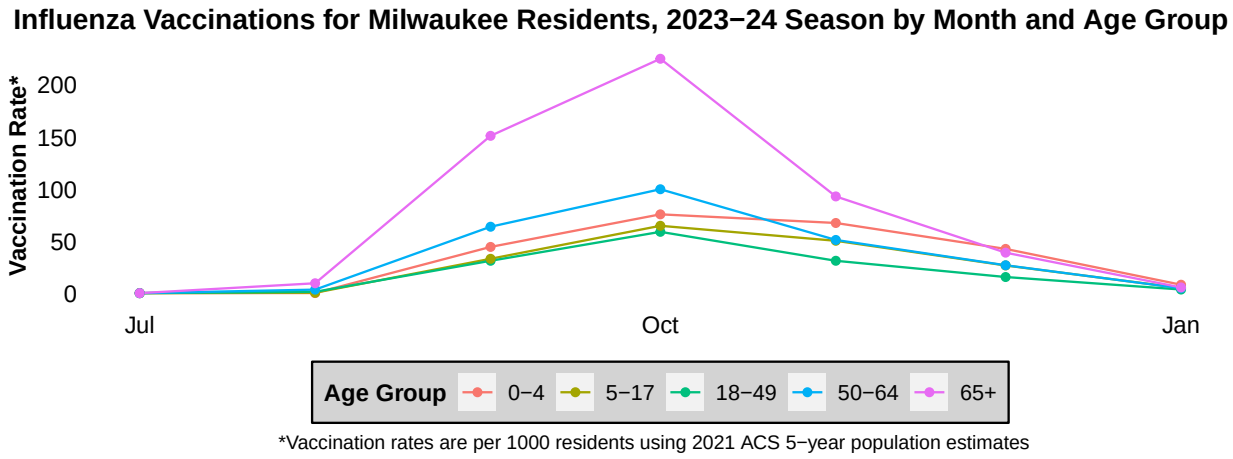
Influenza Vaccination Coverage for 2023-2024 Season by Demographics



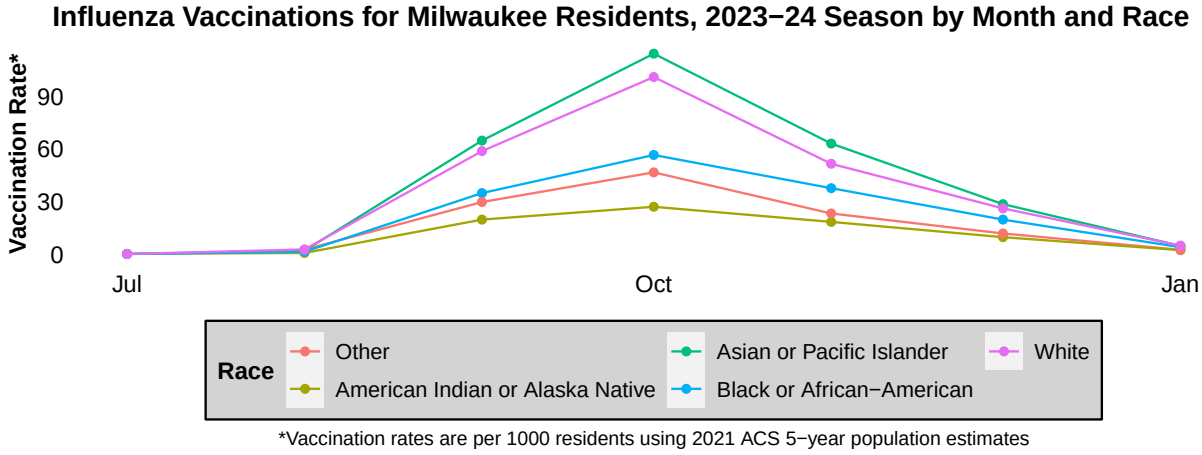




Vaccination Uptake Timelines

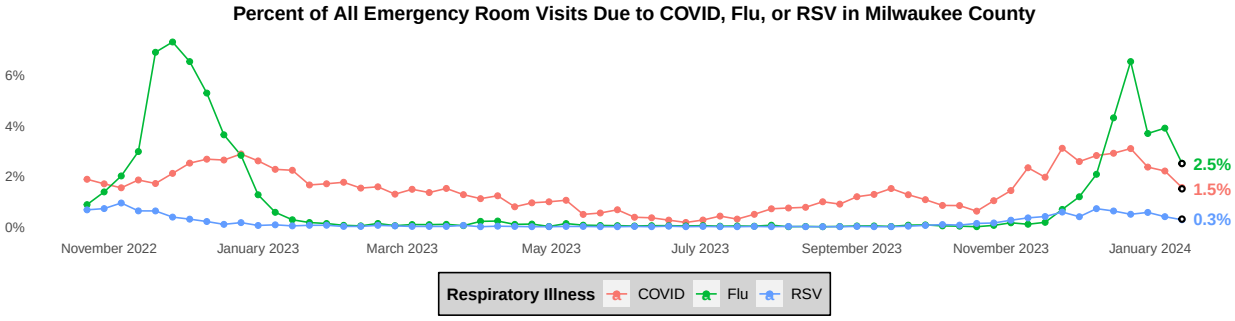


*Vaccination rates are per 1000 residents using 2021 ACS 5−year population estimates



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

Respiratory Illness Emergency Department Visits in Milwaukee County



COVID-19 Activity

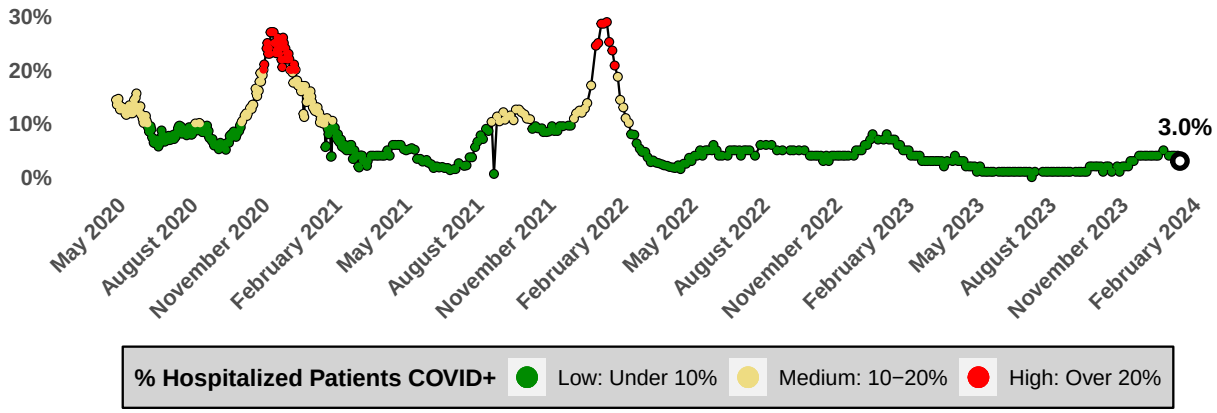
City of Milwaukee COVID-19 Vaccination Uptake

- As of January 17, 2024, 7.3% of city residents are up-to-date with their COVID-19 vaccinations.

COVID-19 Hospital Admission Metrics, Updated January 13, 2023

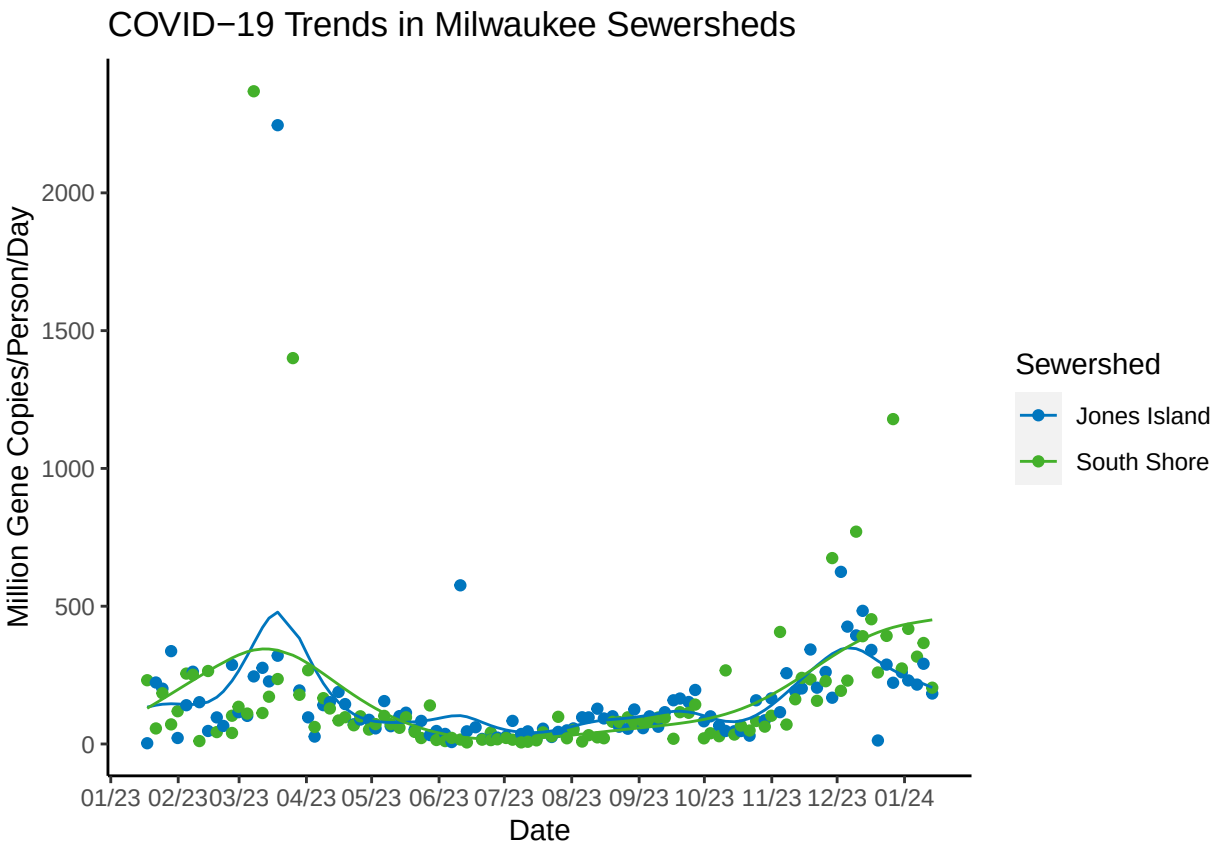
COVID-19 Hospital Admission Level - High		
County Weekly Metrics Used to Determine the COVID-19 Hospital Admission Level	**Comparison to Prior Week**	
New hospital admissions of confirmed COVID-19, past week (total)	206	Down from 323
New COVID-19 admissions per 100,000 population	13.1	Down from 20.5
% Staffed inpatient beds occupied by patients with confirmed COVID-19 past week (average)	4.6%	Down from 5.0%

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



Data Source: HERC Region 7
Last Update:2024−01−18

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 76.47 percentile for Jones Island Sewershed and are in the 80.39 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.