



COVID-19 SITUATION REPORT

08/21/2024

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Summary

- Compared to the previous report (07/19/2024), the 7-day average rate of new confirmed COVID-19 cases increased from 17.2 daily cases per million people to 57.0 daily cases per million people (Figure 1).
 - The 7-day average case rate in Detroit City is higher than the rate for Michigan (52.5 daily cases per million), as of 08/10/2024.
 - There are 0.7% of Emergency Department visits in Detroit with diagnosed COVID-19 as of 08/17/2024 (Figure 2).
- DHD recorded 399 new cases and 0 COVID-19-related deaths over the past 14 days, compared to 125 cases and 0 deaths in the previous report (Table 1).
- Hospital capacity (Figure 8):
 - The proportion of COVID-19-positive inpatients increased from 0.4% to 0.6% since the previous report.
 - The proportion of ICU beds occupied decreased from 70.1% (338/482) to 76.9% (356/463) since the previous report, however, this figure does not account for staffing shortages/other factors that impact hospital capacity.
- Vaccine distribution in Detroit [MDHHS COVID-19 Vaccine Dashboard](#)
 - 820,588 total COVID-19 vaccine doses have been administered in the City of Detroit as of 05/14/24.
 - 49.0% of Detroit residents have received at least the first dose of their vaccination series as of 05/14/24; 6.4% of Detroit residents are up-to-date with their vaccination series per CDC recommendations for the 2023-2024 season.
- Wastewater monitoring (Figure 9):
 - Wastewater monitoring shows 50% of sampling sites have detectable levels and 14% of sites have high levels of SARS-CoV-2 markers as of 08/13/2024 in the city of Detroit.
- Variant of Concern (VOC) and Variant of Interest (VOI) estimations from [CDC Variant Monitoring](#):
 - The Omicron variant is estimated to comprise 98.0% [26.4% are KP.3, 16.6% are KP.2.3, 13.9% are KP.3.1.1, 9.7% are LB.1, 6.6% are KP.2, 5.4% are KP.2.15, 3.7% are KP.1.1, 3.1% are JN.1, 2.1% are LF.3.1, 2.1% are KP.1.1.3, 1.6% are JN.1.18, 1.4% are LP.1, 1.1% are JN.1.16.1, 1.1% are KP.4.1, 0.9% are JN.1.7, 0.7% are KQ.1, 0.6% are JN.1.16, 0.5% are JN.1.13.1, and 0.5% are KS.1] of new COVID-19 cases in our Health and Human Service region (HHS) (week ending 07/20/2024). All others are listed at 2.0%.

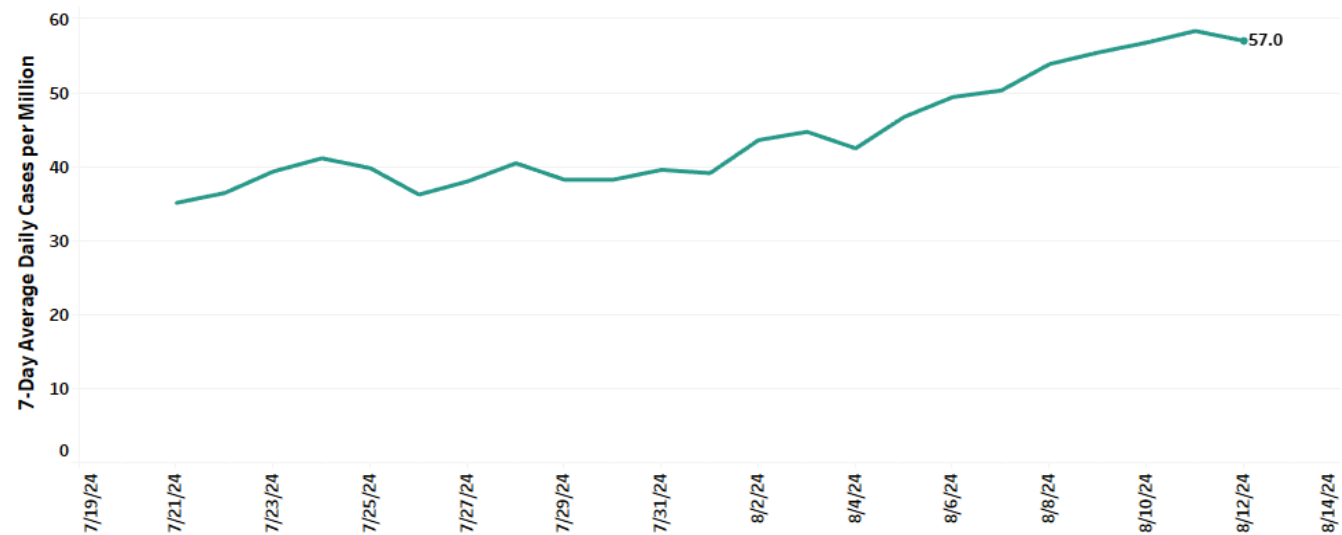
Current COVID-19 Situation

Table 1. Detroit's confirmed case and death counts as of 08/19/2024.

Cumulative totals		Over the past 14 days	
Confirmed cases	178,898	Confirmed cases	399
Confirmed deaths	3,796	Confirmed deaths	0
Total cases*	194,989		
Total deaths*	4,026		

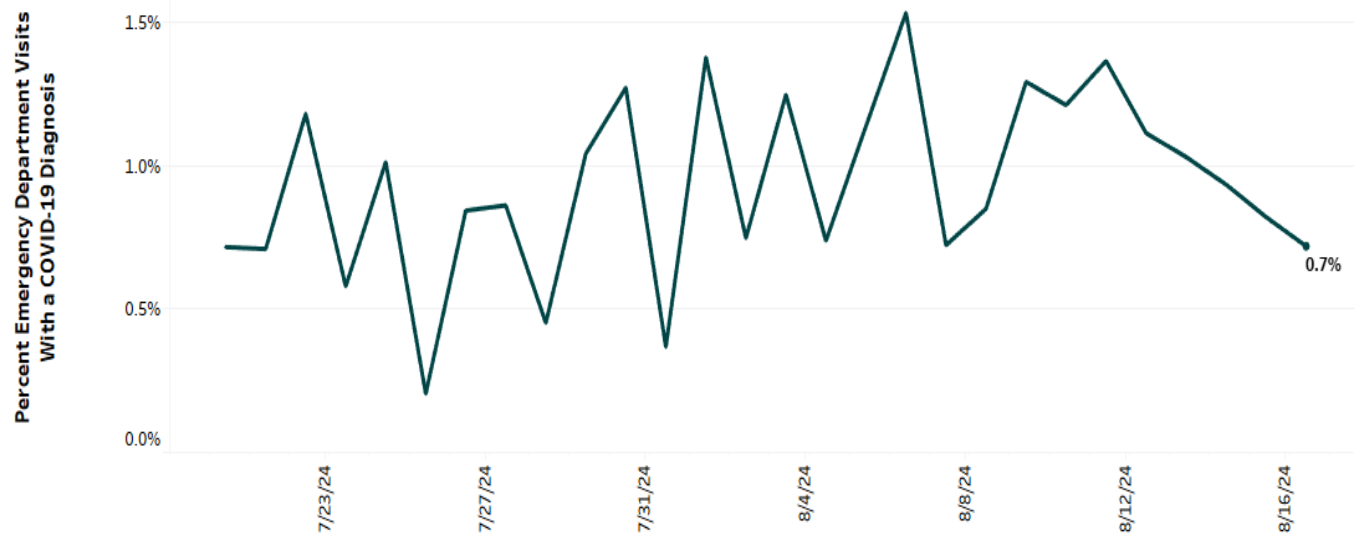
*Includes probable and confirmed cases.

Figure 1. 7-Day Average of Daily Cases per million population in Detroit City in the last four weeks.



Source: [MDSS](#)

Figure 2. 7-Day Total new hospital admissions per 100,000 for Detroit, Wayne County in the last four weeks.



Source: [MSSS](#)

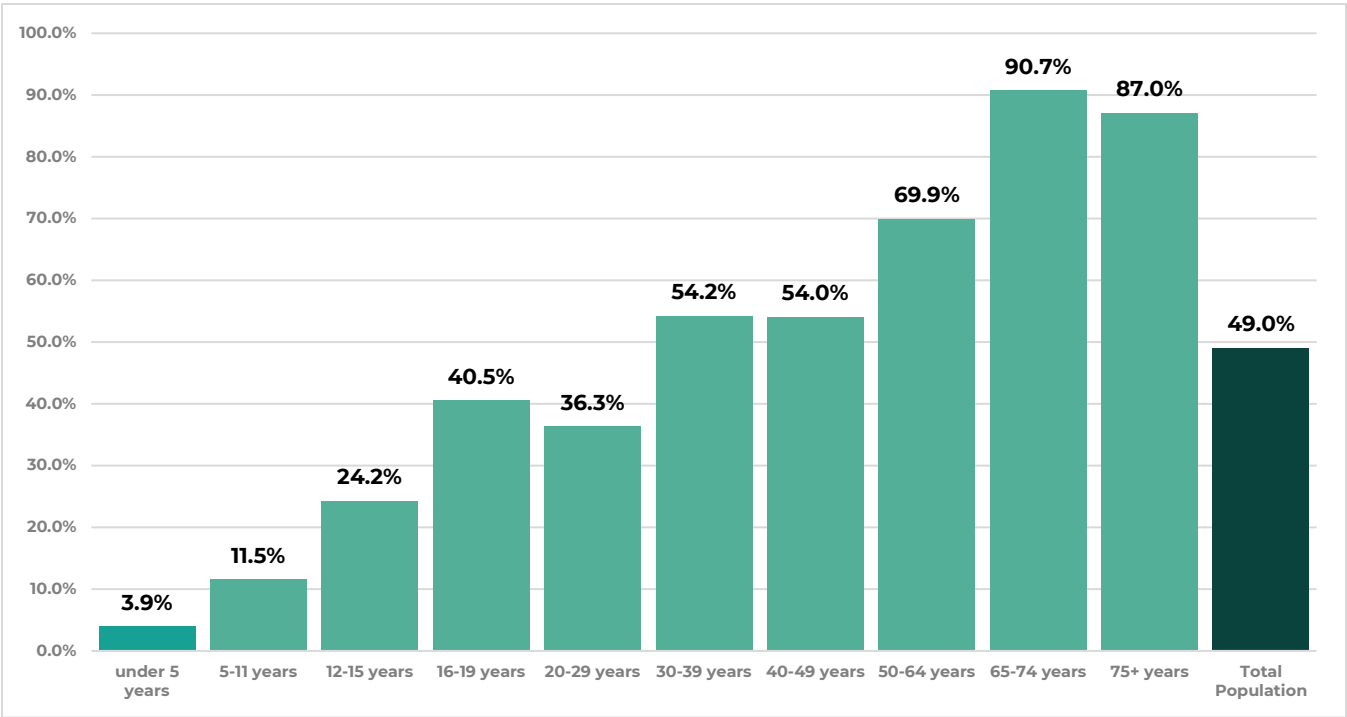
Vaccine Information

Table 2. Breakdown of vaccination status of Detroit residents by age and sex as of 05/14/2024.

		At Least One Dose	Up-To-Date	Grand Total
Female	under 5 years	846 (0.3%)	188 (0.5%)	1,034 (0.3%)
	5-11 years	3,731 (1.2%)	369 (0.9%)	4,100 (1.2%)
	12-15 years	4,260 (1.4%)	280 (0.7%)	4,540 (1.3%)
	16-19 years	6,555 (2.1%)	291 (0.7%)	6,846 (1.9%)
	20-29 years	20,193 (6.5%)	1,065 (2.7%)	21,258 (6.0%)
	30-39 years	24,551 (7.9%)	1,494 (3.7%)	26,045 (7.4%)
	40-49 years	22,149 (7.1%)	1,458 (3.6%)	23,607 (6.7%)
	50-64 years	41,861 (13.4%)	5,113 (12.7%)	46,974 (13.4%)
	65-74 years	27,077 (8.7%)	6,710 (16.7%)	33,787 (9.6%)
	75+ years	20,338 (6.5%)	5,600 (14.0%)	25,938 (7.4%)
	Unknown	21 (0.0%)	0 (0.0%)	21 (0.0%)
Male	under 5 years	872 (0.3%)	170 (0.4%)	1,042 (0.3%)
	5-11 years	3,768 (1.2%)	414 (1.0%)	4,182 (1.2%)
	12-15 years	4,211 (1.4%)	288 (0.7%)	4,499 (1.3%)
	16-19 years	6,147 (2.0%)	238 (0.6%)	6,385 (1.8%)
	20-29 years	16,556 (5.3%)	606 (1.5%)	17,162 (4.9%)
	30-39 years	19,581 (6.3%)	1,194 (3.0%)	20,775 (5.9%)
	40-49 years	18,011 (5.8%)	1,165 (2.9%)	19,176 (5.5%)
	50-64 years	36,476 (11.7%)	4,145 (10.3%)	40,621 (11.6%)
	65-74 years	22,085 (7.1%)	5,427 (13.5%)	27,512 (7.8%)
	75+ years	12,021 (3.9%)	3,907 (9.7%)	15,928 (4.5%)
	Unknown	16 (0.0%)	0 (0.0%)	16 (0.0%)
Unknown	5-11 years	1 (0.0%)	0 (0.0%)	1 (0.0%)
	20-29 years	10 (0.0%)	0 (0.0%)	10 (0.0%)
	30-39 years	41 (0.0%)	4 (0.0%)	45 (0.0%)
	40-49 years	31 (0.0%)	1 (0.0%)	32 (0.0%)
	50-64 years	48 (0.0%)	1 (0.0%)	49 (0.0%)
	65-74 years	13 (0.0%)	3 (0.0%)	16 (0.0%)
	75+ years	12 (0.0%)	1 (0.0%)	13 (0.0%)
	Unknown	2 (0.0%)	0 (0.0%)	2 (0.0%)
Grand Total		311,484 (100.0%)	40,132 (100.0%)	351,616 (100.0%)

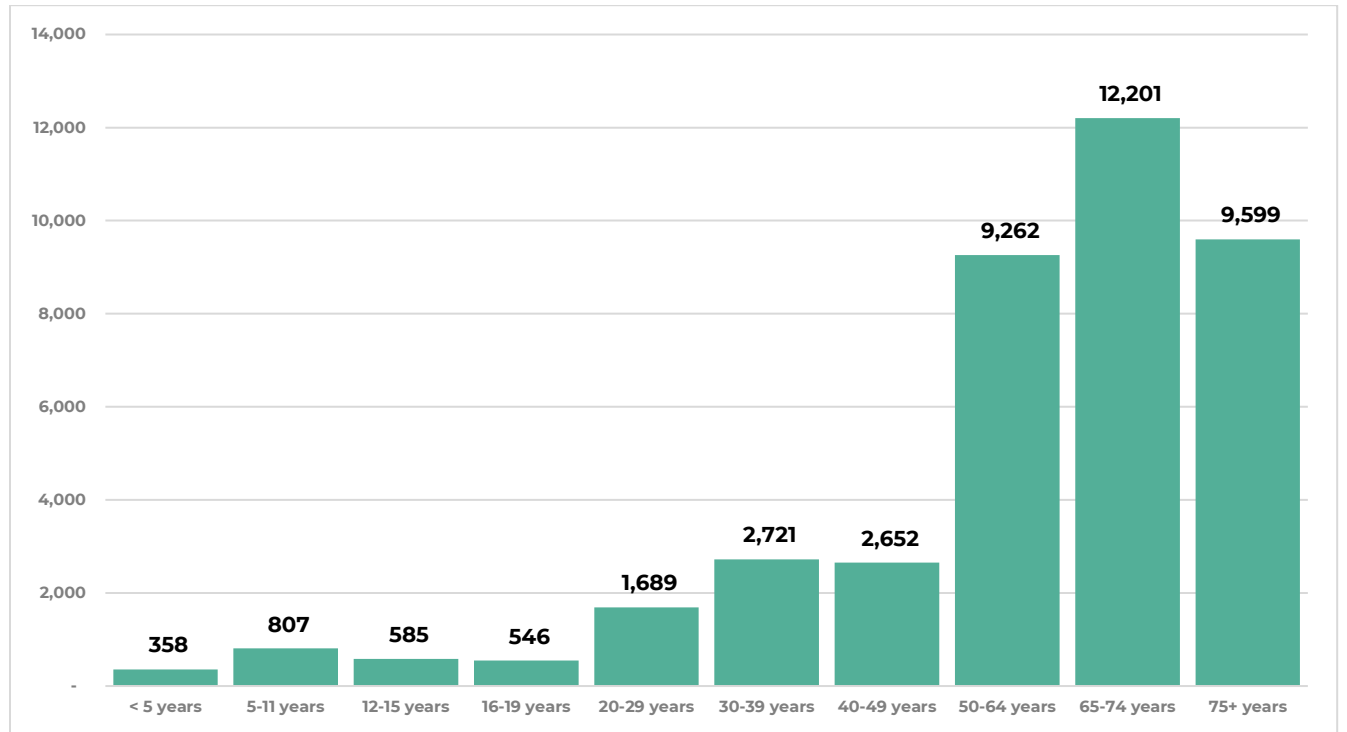
Source: [MDHHS COVID-19 Vaccine Dashboard](#)

Figure 3. Partial vaccination (at least one dose) coverage for Detroit residents as of 05/14/2024.



Source: [MDHHS COVID-19 Vaccine Dashboard](#)

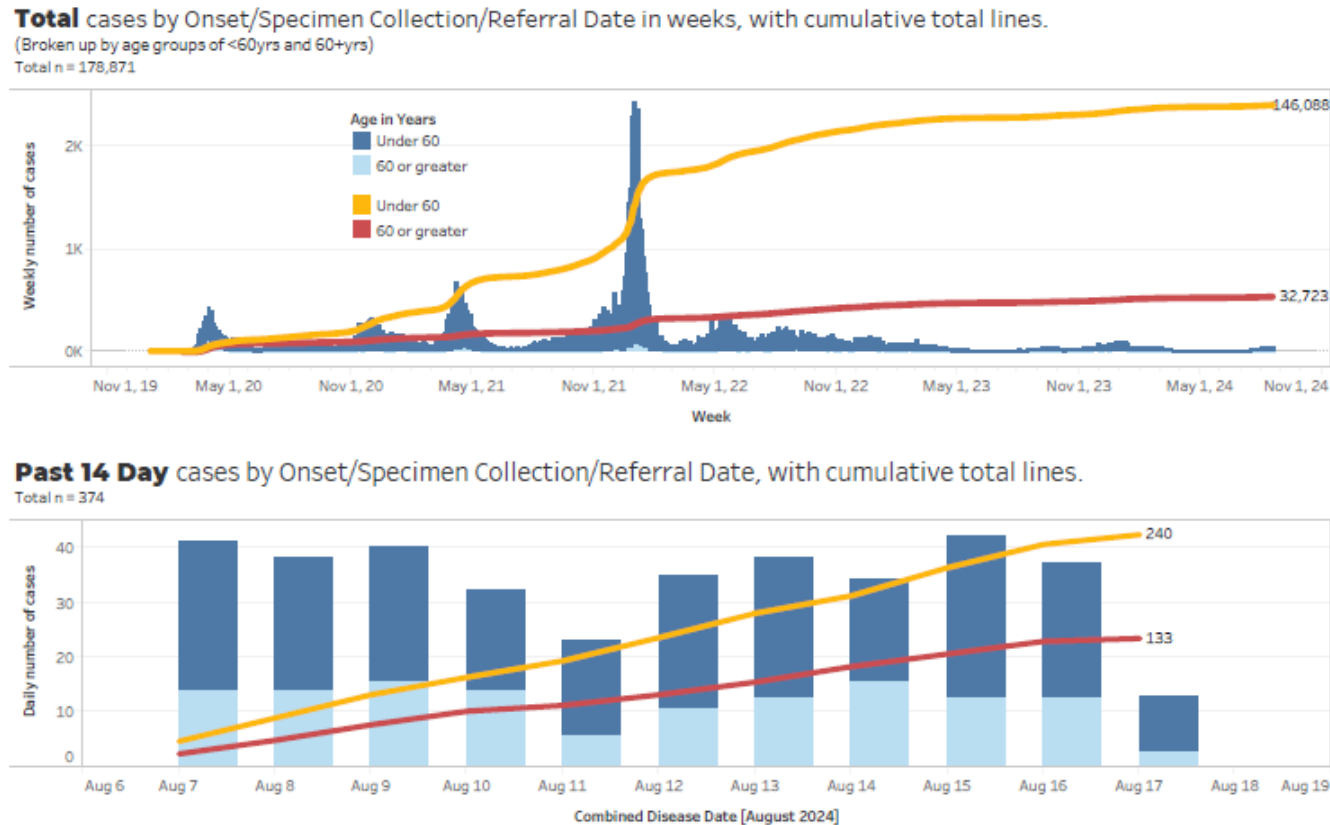
Figure 4. Fully vaccinated Detroit residents who are up-to-date with recommended doses per CDC guidelines for the 2023-2024 season, by age group as of 05/14/2024.



Source: [MDHHS COVID-19 Vaccine Dashboard](#)

Case and Death Characteristics

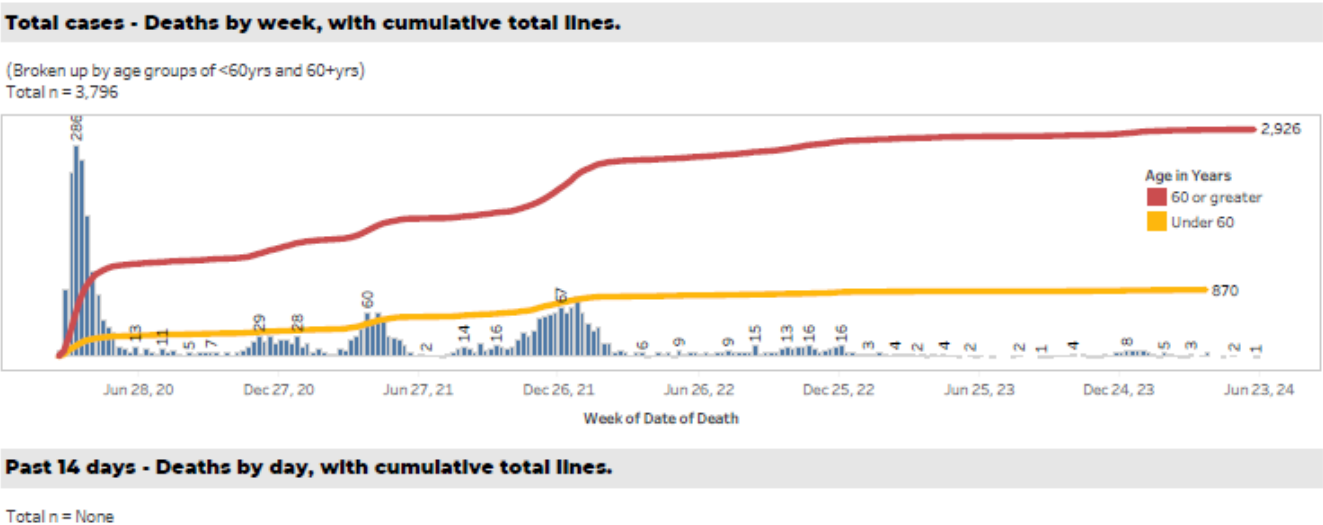
Figure 5. Number of confirmed cases by week and age group since March 2020 and for the past 14 days (bottom)



Only confirmed cases are shown. The bars displayed are colored according to the number of cases with an age in years under 60 (dark blue) or 60+ (light blue). The "Age in Years" variable is created during analysis by using the "Age," and "Age Units" variables from MDSS. Cases are assigned to dates in the curve based on the "Combined Disease Date" of the case, which takes MDSS "Onset Date" as first preference, specimen collection date of the first positive test as second preference (calculated in analysis), and MDSS referral date as third preference. The lines show a running cumulative total of cases for under 60 years of age (yellow) and 60+ years of age (red). All numbers are preliminary and subject to change. Due to reporting delays, the past 4 days of referral dates are not shown.

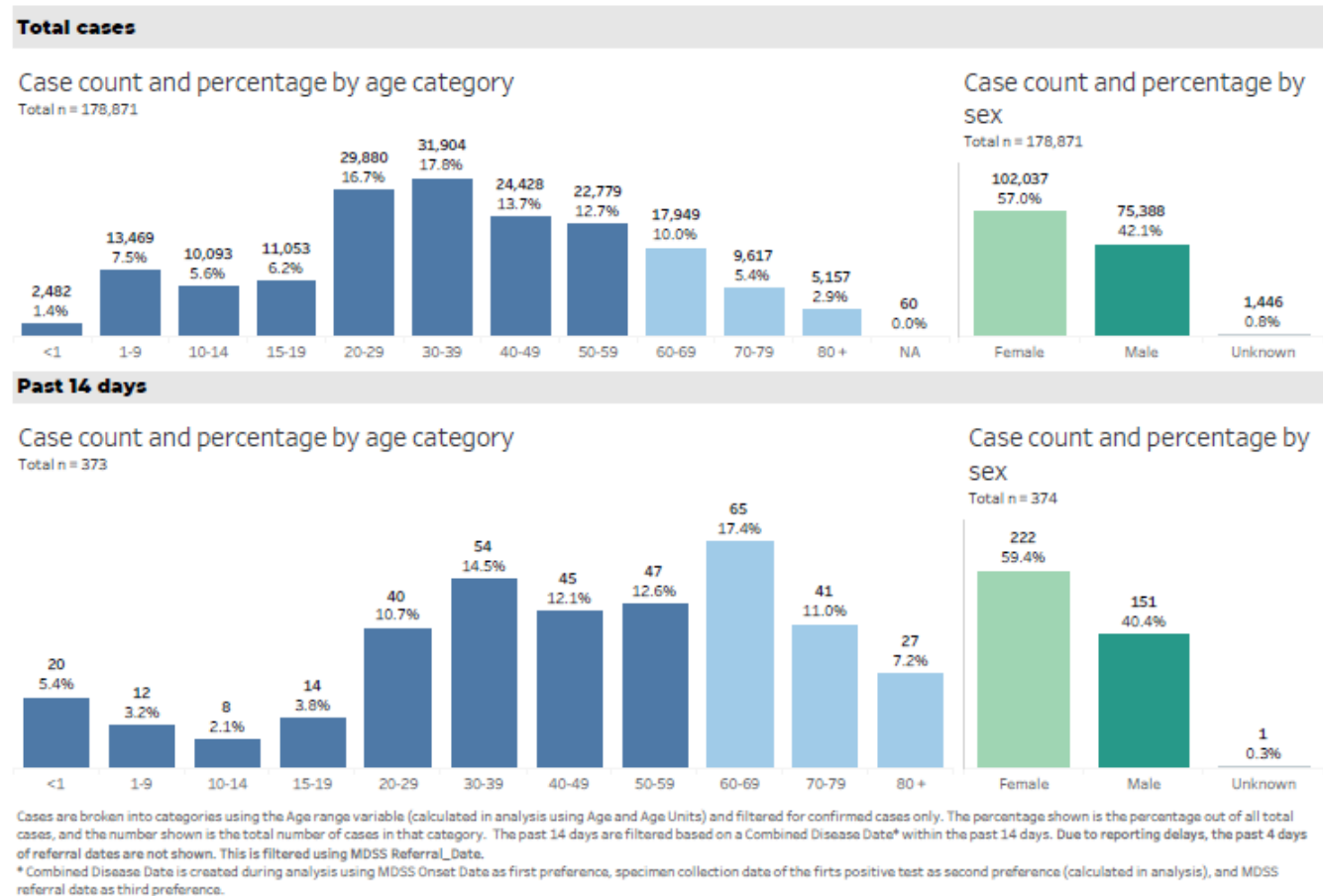
* Combined Disease Date is created during analysis using MDSS Onset Date as first preference, specimen collection date of the first positive test as second preference (calculated in analysis), and MDSS referral date as third preference.

Figure 6. Number of COVID-19 deaths by week since March 2020 (top) and by date for the past 14 days (bottom).



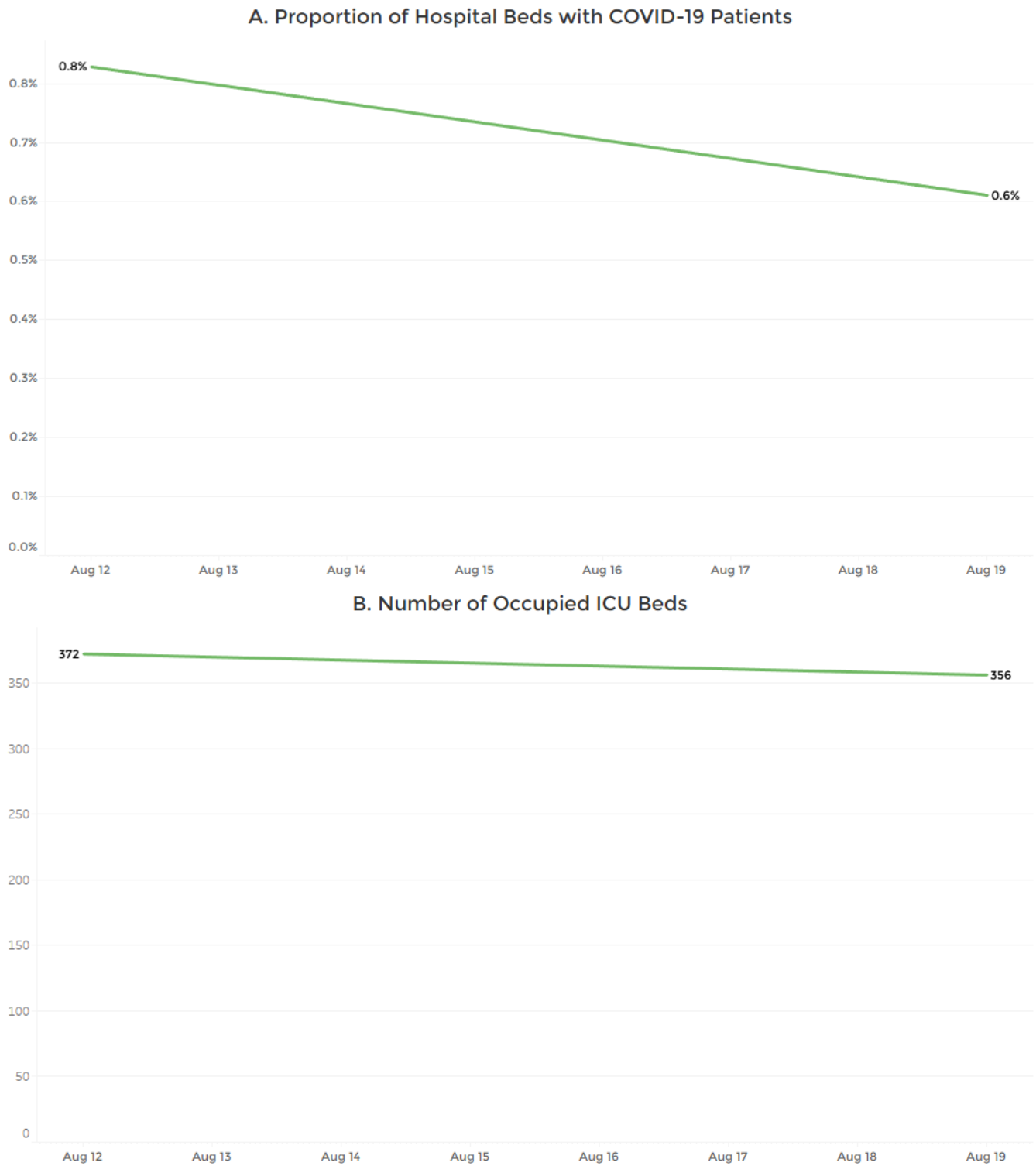
MOSS Date of Death used, and counts based on the number of confirmed cases with deceased status on that day. Deceased status determined using Deceased variable created during analysis, which checks patient status and case disposition to see if the patient is deceased. Any mark of death in any of the three places is considered a deceased patient. "Patient Died" radio button is NOT used due to unreliable reporting from multiple sources. The past 14 days is filtered using Date of Death.

Figure 7. Age and sex distribution of confirmed cases since March 2020 (top) and for the past 14 days (bottom).



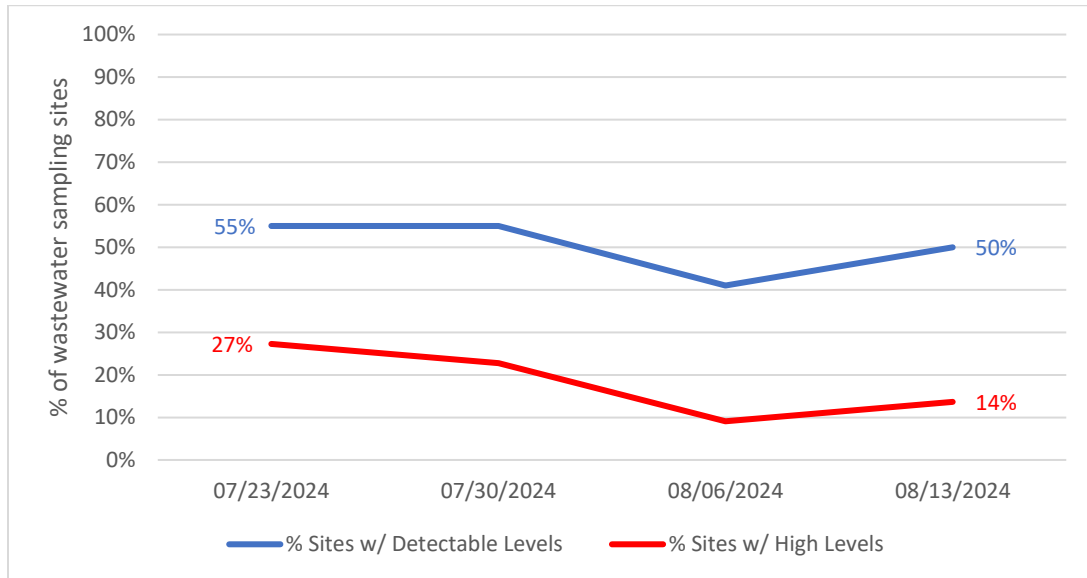
Detroit Hospital Capacity

Figure 8. Proportion of COVID-19 occupied beds (A) and number of occupied ICU beds (B) for Detroit hospitals in the past 14 days.



Wastewater Monitoring

Figure 9. Proportion of Detroit wastewater sampling sites with detectable or high levels of SARS-CoV-2 markers in the past 4 weeks.



The proportions are out of 22 sites across the city of Detroit from which wastewater samples are taken and tested for SARS-CoV-2 markers. Each sampling site represents a specific population based on the area its sewer shed covers, such as long-term care facilities, college dormitories, and entire ZIP code areas. Detectable levels are over 1000 copies/100mL; high levels are over 5000 copies/100mL.

Source: [RamLab WSU](#)