Milwaukee County COVID-19 Data Summary

Milwaukee County COVID-19 Epidemiology Intel Team

This report was updated on June 16, 2022 and includes data through June 14, 2022. Note that case and testing data for recent weeks may be under-reported due to pending test results. In this report, confirmed case totals include individuals with a positive PCR test result, and do not include individuals with only a positive antigen/rapid/at-home test. Hospitalizations overall are thought to be an undercount. Deaths may lag by several days due to a process of death review and confirmation.

Milwaukee County COVID-19 Summary Statistics

Overall Milwaukee County COVID-19 Summary Statistics March 1, 2020 - June 14, 2022

	Milwaukee County	City of Milwaukee	Suburbs
Total tests performed	2,802,389	1,738,988	1,063,401
Percent positive of all tests performed	10.4%	10.5%	10.2%
Number of confirmed cases	245,681	153,306	92,375
Number of hospitalizations	12,786	8,339	4,447
Number of deaths	2,199	1,254	945
Case fatality rate	0.9%	0.8%	1.0%

Weekly Milwaukee County COVID-19 Summary Statistics June 8, 2022 - June 14, 2022

	Milwaukee County	City of Milwaukee	Suburbs
Total tests performed	13,734	8,218	5,516
Percent positive of all tests performed	13.4%	13.0%	14.1%
Number of confirmed cases	1,276	711	565
Number of hospitalizations*	131	72	59
Number of deaths	0	0	0

^{*}Total patients hospitalized for COVID-19 with specimen collection date within the last 30 days

Total Cases and New Cases

There are now a total of 245,681 cases in Milwaukee County, since the first confirmed case on March 6th, 2020. Over the last week, we observed 1,276 new confirmed cases in Milwaukee County, including 711 new cases in the city of Milwaukee. **Figures 1a and 1b** show the daily incidence of new cases (bars) and the average daily incidence within the last 7 days (line), which provides a smoothing effect to enhance visualization, for both the city and the county. To indicate a potential reporting delay, we shade the last 4 days of data and exclude those days from the trend line.

Over the last week, we have seen a plateau in confirmed cases in the county. The highest daily case count since the beginning of the epidemic occurred on January 3, 2022, with 4,685 cases in the county overall. The highest daily case count over the entire epidemic in the suburbs occurred on January 3, 2022, with a total of 1,707 cases confirmed. The highest case count in the city occurred on January 3, 2022, with a total of 2,978 cases confirmed.

Milwaukee County Suburbs
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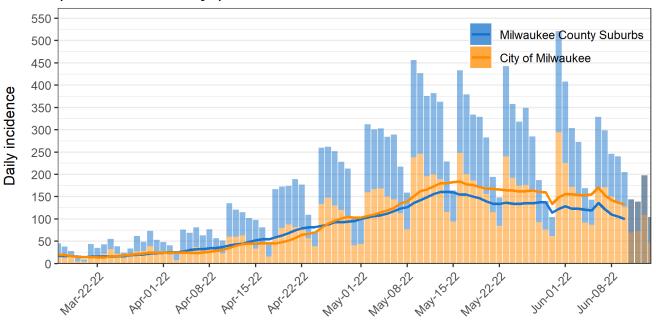
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Figure 1a: Milwaukee County daily number of COVID-19 cases

Date of specimen collection

Figure 1b: Milwaukee County daily number of COVID-19 cases (most recent 90 days)



Date of specimen collection

Total Deaths and New Deaths

There are a total of 2,199 COVID-19 related deaths in Milwaukee County. Over the last week, we observed 0 deaths, with 0 from the City of Milwaukee. **Figures 2a and 2b** show the number of daily COVID-19 related deaths among Milwaukee County and City of Milwaukee residents. The overlaid lines show the average daily deaths within the last 7 days for each jurisdiction. Deaths in the county peaked on December 1, 2020. Deaths in the city peaked on December 1, 2020 with 10 deaths, and in the suburbs on November 15, 2020 with 10 deaths.

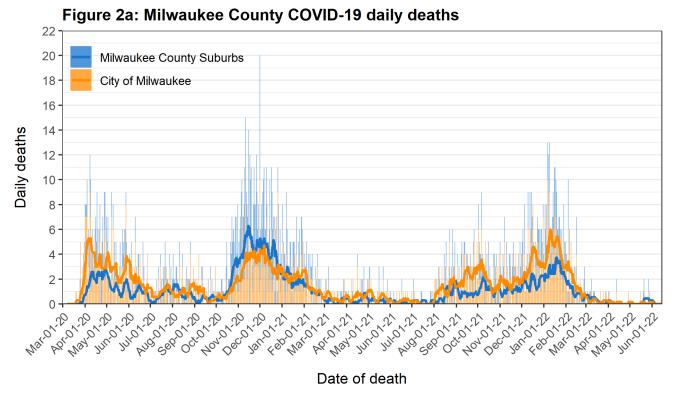
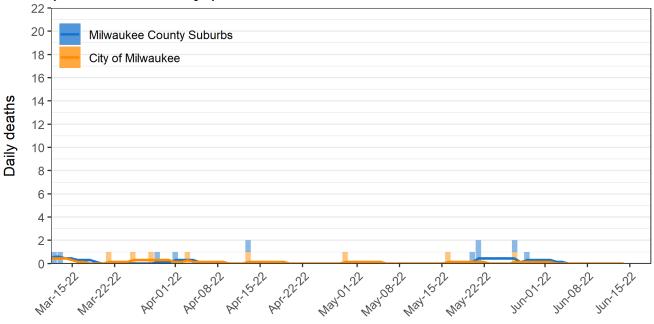


Figure 2b: Milwaukee County COVID-19 daily deaths (most recent 90 days)



Date of death

The COVID-19 Reproductive Number

Another way of examining the growth rate of the infection is to examine the reproductive number (R). This number captures the number of new cases that are the result of an existing case. For example, an R of 2 would indicate that each infected person infects 2 new people. The following plots show the change in R over time for Milwaukee County, **Figure 3**, the City of Milwaukee, **Figure 4a**, and Milwaukee County suburbs, **Figure 4b**. Each plot includes key dates related to physical distancing or focused testing campaigns affecting residents. The R for each date is calculated to represent the R for a 7-day period with the start day of that 7-day period represented on the graph. We do not report estimates for the most recent seven days due to a potential data reporting delay. The highest R values observed over the course of the epidemic were 2.81 in the county, 2.98 in the city, and 2.36 in the suburbs, at the beginning of the epidemic in March 2020.

Patterns in the City of Milwaukee are very similar to those in the county overall. Patterns in the suburbs show more fluctuation. The R values for the week of June 1, 2022 through June 7, 2022 are 0.995 for the county, 0.994 in the city, and 0.996 in the suburbs.

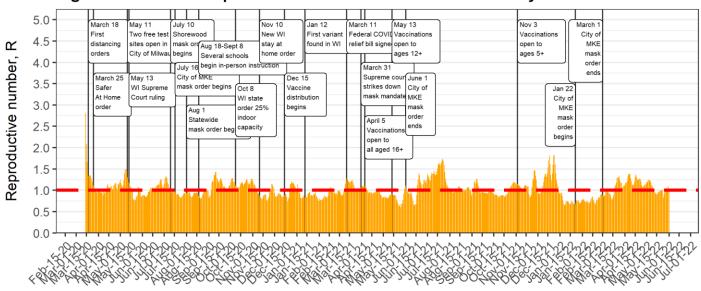
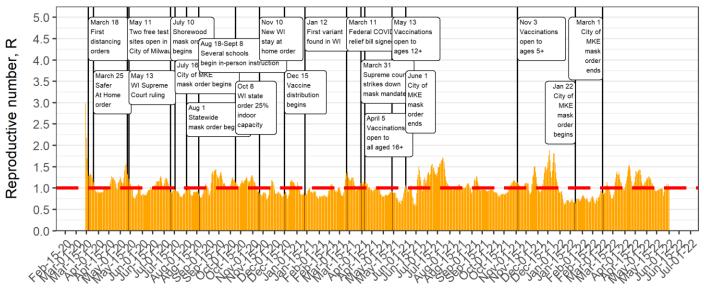


Figure 3: One week reproductive number for Milwaukee County

One-week window start date

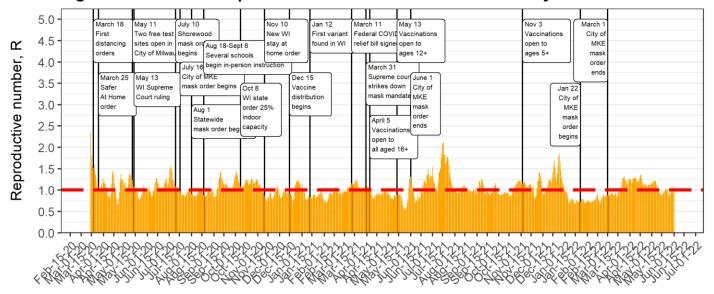
Figure 4a: One week reproductive number for City of Milwaukee



One-week window start date

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 4b: One week reproductive number for Milwaukee County suburbs



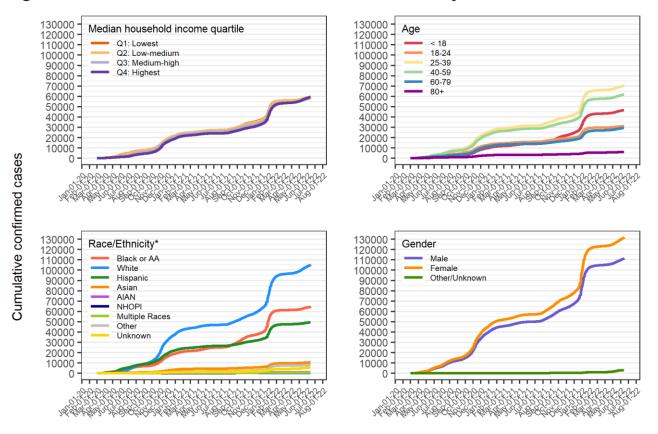
One-week window start date

Demographic Patterns – Age, Sex, Race and Ethnicity

Confirmed cases

COVID-19 cases vary by demographic characteristics. **Figure 5** shows cumulative case plots including confirmed positive cases with an available specimen collection date, plotted by census block group (CBG) median household income, sex, age, and race/ethnicity groups. The cumulative number of cases among those aged 25-39 (N = 70497) still exceeds the number among the next highest group, those aged 40-59 (N = 61864). The number of cases under age 18 (N = 46663) now exceeds the number diagnosed among those aged 18-24 (N = 31145) and 60-79 (N = 29405). Of all confirmed cases, 45% are male and 54% are female. The largest number of cases have been identified among the non-Hispanic White population (N = 105137), followed by the Black/AA population (N = 64515) and the Hispanic population (N = 49410). The lower two quartiles of median household income (\$0 to \$35,833, and \$35,834 to \$50,096) have a larger number of cases than the higher two quartiles (\$50,097 to \$68,393, and \$68,394 to \$250,001), with the fewest cases identified among the highest income group.

Figure 5: Cumulative confirmed cases in Milwaukee County



Date of specimen collection

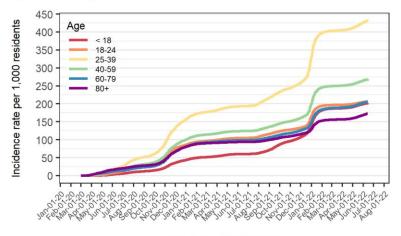
Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race.

AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

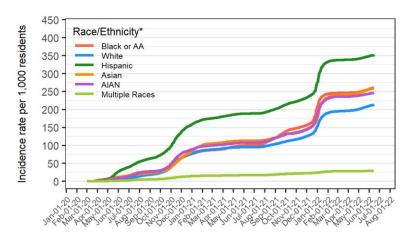
When examined as population-based rates in **Figure 6**, demographic patterns are also apparent. Early in the epidemic, we saw a clear age gradient in population-based rates, with older populations experiencing greater rates. However, since then, we have seen higher rates among the younger, working age groups (18-24, 25-39, and 40-59) and most recently among children (0-17). By race and ethnicity, the rate was highest among Black/AA populations until the beginning of May 2020, when we observed a surge among Hispanics resulting in the Hispanic rate (351.48 per 1,000 people) exceeding that among all other racial and ethnic groups. The rates among Black/AAs (259.08 per 1,000), AIANs (246.61 per 1,000 people), and Asians (261.65 per 1,000 people) come next, followed by Non-Hispanic Whites (212.95 per 1,000). The rate among Black/AA residents increased with the summer 2021 surge in cases thought to be driven by the Delta variant. The rate among females (267.07 per 1,000 people) exceeds the rate among males (240.99 per 1,000 people).

Figure 6: Population based incidence rates in Milwaukee County



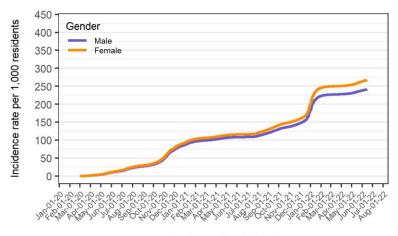
Age	N Cases	Population	Rate per 1,000 residents
< 18	46663	231111	201.91
18-24	31145	150895	206.40
25-39	70497	163246	431.85
40-59	61864	230887	267.94
60-79	29405	142783	205.94
80+	6107	35287	173.07

Specimen collection date



Race/Ethnicity*	N Cases	Population	Rate per 1,000 residents
Black or AA	64515	249011	259.08
White	105137	493723	212.95
Hispanic	49410	140575	351.48
Asian	10582	40443	261.65
AIAN	1146	4647	246.61
Multiple Races	694	24224	28.65

Specimen collection date



Gender	N Cases	Population	Rate per 1,000 residents
Male	111258	461670	240.99
Female	131540	492539	267.07

Specimen collection date

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race.

AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

Hospitalizations

A total of 12786 Milwaukee County residents have been hospitalized due to COVID-19. **Figure 7** shows cumulative hospitalizations based on lab specimen collection date (as admission dates are incomplete). The highest number of hospitalizations continues to be among those ages 60-79 (N = 4374). The highest number of hospitalizations have occurred among Non-Hispanic White community (N = 5381), followed by the Black/AA community (N = 4712), and then the Hispanic community (N = 1950). Overall, counts are lower among other racial and ethnic groups. Females outnumber males, comprising 55.1% of all hospitalized cases. More individuals among lower income than higher income groups have been hospitalized, with a clear income gradient observed.

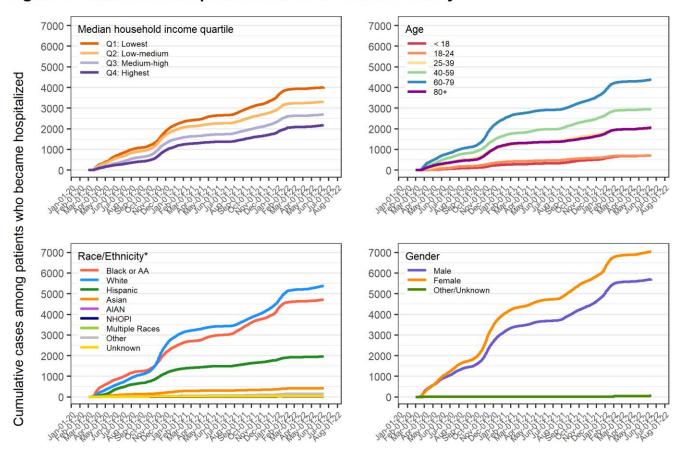


Figure 7: Cumulative hospitalizations in Milwaukee County

Date of specimen collection

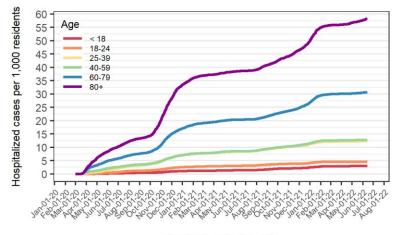
Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race. AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

When examined as population-based rates and case-based rates in **Figure 8**, hospitalization patterns are also apparent by demographic characteristics. Both population- and case-based hospitalization rates exhibit a clear age group gradient, with older age groups experiencing higher rates. For race and ethnicity and gender plots, note that the vertical axis has been adjusted to reveal variation and the scales are not directly comparable across age, gender, and race/ethnicity plots. By race and ethnicity, population and case-based hospitalization rates are highest among the Black/AA and AIAN populations and the population-based rates are lowest for Asians and non-Hispanic Whites. Note the variation in the timing of

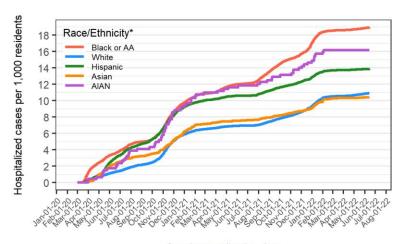
rate increases across racial and ethnic groups. Rates by gender are very similar. All rates presented are crude rates and only groups with 10 or more total hospitalized cases are shown.

Figure 8: Population and case based hospitalization rates in Milwaukee County



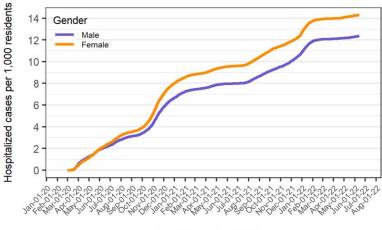
Age	N Hospitalized Cases	Rate per 1,000 residents	Rate per 100 cases
< 18	701	3.03	1.50
18-24	696	4.61	2.23
25-39	2014	12.34	2.86
40-59	2949	12.77	4.77
60-79	4374	30.63	14.88
80+	2052	58.15	33.60

Specimen collection date



Race/Ethnicity*	N Hospitalized Cases	Rate per 1,000 residents	Rate per 100 cases
Black or AA	4712	18.92	7.30
White	5381	10.90	5.12
Hispanic	1950	13.87	3.95
Asian	420	10.38	3.97
AIAN	75	16.14	6.54

Specimen collection date



Gender	N Hospitalized Cases	Rate per 1,000 residents	Rate per 100 cases
Male	5697	12.34	5.12
Female	7042	14.30	5.35

Specimen collection date

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS)

Created by the Milwaukee County COVID-19 Epidemiology Intel Team

*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race. AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

Deaths

1200

700

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There are now a total of 2199 confirmed deaths in Milwaukee County, representing a case fatality rate of 0.9%. We observed 0 new deaths over the past week in the county. Mortality patterns differ by demographic characteristics, as shown in **Figure 9**. The largest number of deaths are recorded among those age 60 or older. The largest number of deaths are recorded for males (N = 1114) and for non-Hispanic Whites (N = 1144) followed by Black/AA residents (N = 680). By income, there are a larger number of deaths among the two lower income groups as compared to the two higher income groups. Deaths among Hispanics remain relatively low.

1100 -Median household income quartile 1100 Age 1000 1000 Q1: Lowest 18 900 Q2: Low-medium 18-24 900 Q3: Medium-high 25-39 800 800 Q4: Highest 40-59 700 700 60-79 600 80+ 600 500 500 400 400 300 300 200 200 100 100 **Sumulative deaths** 1200 1200 Race/Ethnicity* Gender 1100 -1100 1000 -1000 Black or AA Male White 900 900 Female Other/Unknown Hispanic 800 800

Figure 9: Cumulative deaths in Milwaukee County

Date of death

700

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Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Asian

AIAN NHOPI

Other

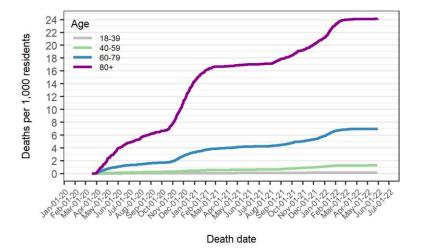
Unknown

Multiple Races

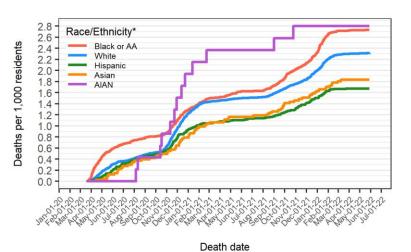
*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race. AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

In terms of population- and case-based rates shown in **Figure 10**, there is a clear age category gradient, with higher death rates among older populations. For race and ethnicity and gender plots, note that the vertical axis has been adjusted to reveal variation and the scales are not directly comparable across age, gender, and race/ethnicity plots. Males have a higher death rate than females. The AIAN population has the highest population and case-based death rates, although the total number of deaths is small in comparison to other racial and ethnic groups. Black/AA populations and non-Hispanic Whites have the next highest population and case-based death rates. All rates presented are crude rates and only groups with 9 or more total deaths are shown.

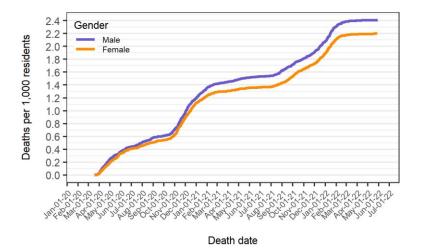
Figure 10: Population and case based death rates in Milwaukee County



Age	N Deaths	Rate per 1,000 residents	Rate per 100 cases
18-39	52	0.17	0.05
40-59	295	1.28	0.48
60-79	998	6.99	3.39
80+	853	24.17	13.97



Race/Ethnicity*	N Deaths	Rate per 1,000 residents	Rate per 100 cases
Black or AA	680	2.73	1.05
White	1144	2.32	1.09
Hispanic	235	1.67	0.48
Asian	74	1.83	0.70
AIAN	13	2.80	1.13



Gender	N Deaths	Rate per 1,000 residents	Rate per 100 cases
Male	1114	2.41	1.00
Female	1085	2.20	0.82

Data source: Wisconsin Electronic Disease Surveillance System (WEDSS)

Created by the Milwaukee County COVID-19 Epidemiology Intel Team

*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race. AIAN stands for American Indian or Alaska Native and NHOPI stands for Native Hawaiian or Other Pacific Islander.

Testing Coverage

Testing for the novel coronavirus is an important public health response to limiting the spread of the infection. Testing capacity was limited in Milwaukee County and across the country earlier in the epidemic, but then increased. Since the first case of COVID-19 was diagnosed in Milwaukee County on March 6, 2020, a total of 2,802,389 COVID-19 tests have been performed, with 2,511,741 negative results and 290,648 positive results. This represents a positive test rate of 10.4% since the beginning of the epidemic.

As shown in **Figure 11**, total tests per week increased until early July 2020 and then declined, with another increase starting in early September 2020 and peaking in early November, followed by a decline. Testing markedly decreased the weeks of Thanksgiving and Christmas 2020, and the 2021 New Year. Testing then decreased until the summer 2021 surge in cases beginning in late June, and remained relatively high until rising to the highest point of the pandemic in early January 2022 as the surge driven by the Omicron variant peaked. As shown in **Figure 12**, the percentage of positive tests varied over the course of the epidemic, with highs of 25-30% in early April of 2020 and 35-40% in early January of 2022. The percentage of positive tests was 13.4% over the past week compared to 14.2% the previous week. **Figure 12** also illustrates the 14-day trend in the percent positive tests, showing no significant change. Percent positive should be interpreted in the context of potential data delays, and considering that data entry for positive tests is prioritized.

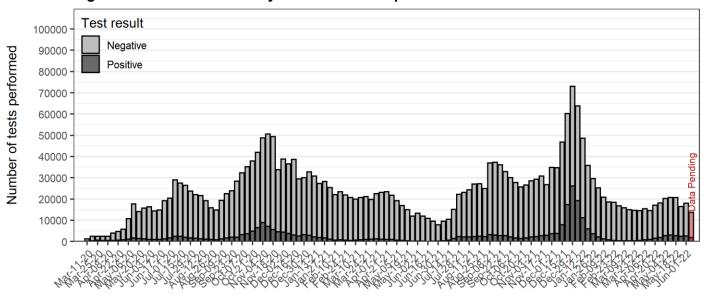
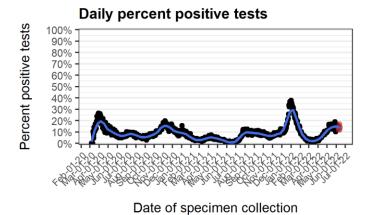


Figure 11: Milwaukee County number of tests per week

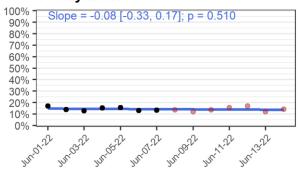
One-week window start date

Figure 12: Milwaukee County percent positive tests



Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

14-day trend

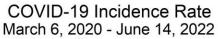


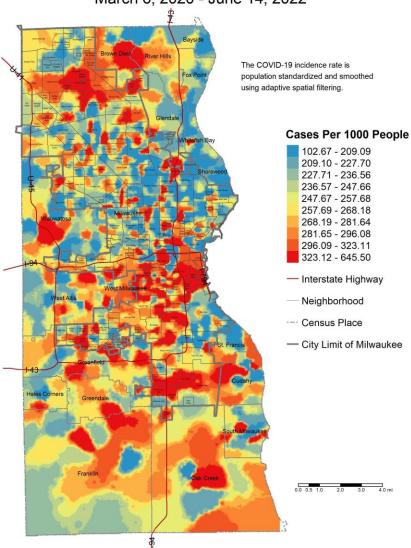
Date of specimen collection

Spatial Patterns of Cases and Testing

COVID-19 spread is spatially patterned. Map 1 below illustrates the cumulative burden (all confirmed cases) of COVID-19 in Milwaukee County. Map 2 shows cases confirmed over the last two weeks. Map 3 shows the overall testing rate across the population. Map 4 shows the testing rate over the last two weeks. Map 5 depicts the percentage of tests that were confirmed positive. Map 6 shows cumulative COVID-19 related hospitalizations. Map 7 shows the percentage of cases who have been hospitalized. Map 8 shows the overall COVID-19 mortality rate, excluding cases and corresponding population denominators residing in group quarters such as nursing homes and long-term care facilities. All are crude rate maps created using census block group level COVID-19 data from WEDSS and population data from the US Census. The maps are smoothed to protect confidentiality and ensure that rates are stable while still providing geographic detail. Deciles are used to define categories. High rates are depicted in red with lower rates depicted in blue. Of note, some of the higher rates observed can be attributed to infections that have spread within group quarters, such as a nursing home, prison, or long-term care facility.

Decile Map 1: All confirmed cases of COVID-19



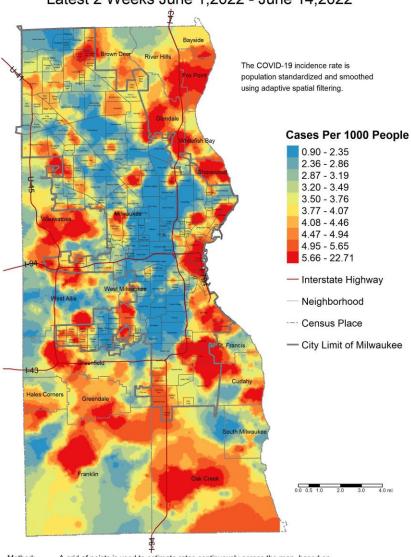


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 confirmed cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TIGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 2: Confirmed cases of COVID-19 within the last two weeks

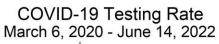
COVID-19 Incidence Rate Latest 2 Weeks June 1,2022 - June 14,2022

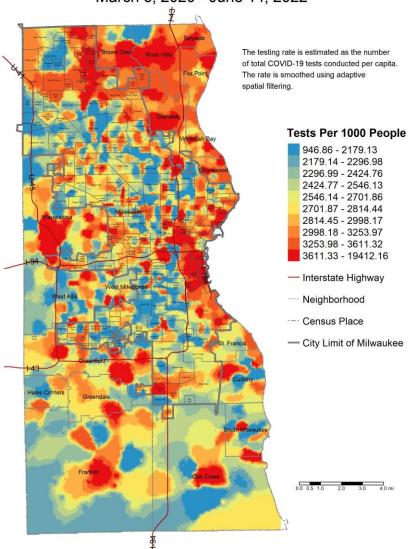


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 confirmed cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TIGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 3: Overall testing rate



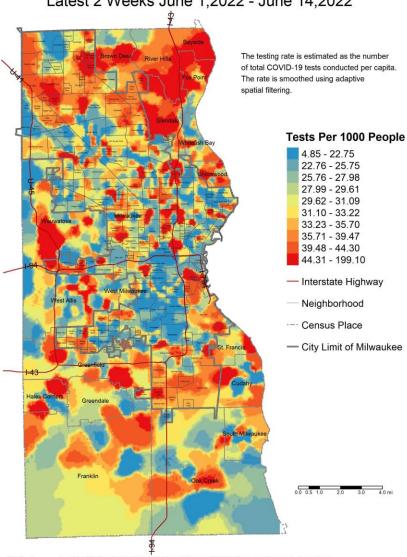


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 tests included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TIGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 4: Testing rate within the last two weeks

COVID-19 Testing Rate Latest 2 Weeks June 1,2022 - June 14,2022

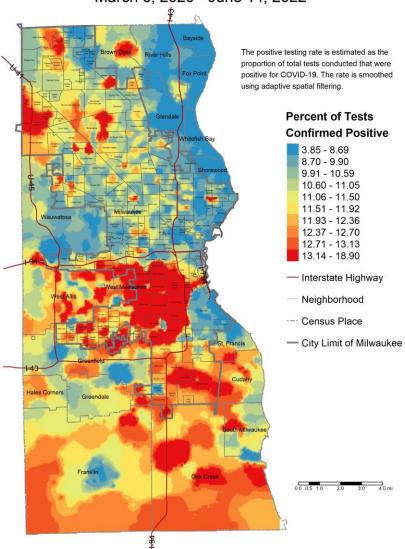


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 tests included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TIGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 5: Percentage of tests that were confirmed positive

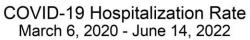
COVID-19 Positive Testing Rate March 6, 2020 - June 14, 2022

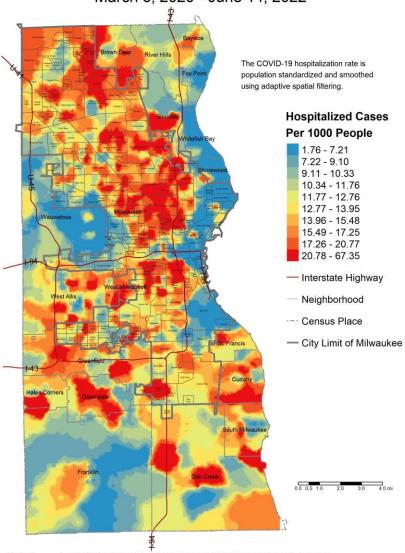


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 positive tests included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TIGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 6: COVID-19 related hospitalizations



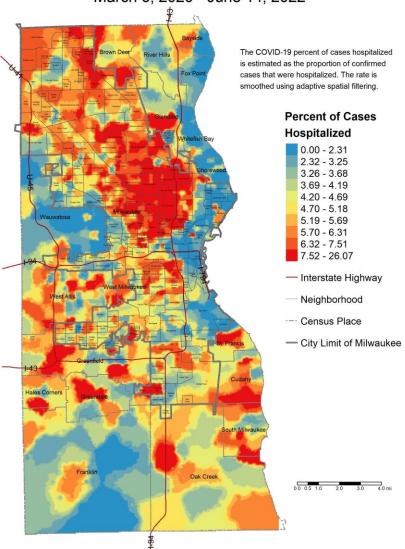


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 hospitalized cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TIGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 7: Percentage of COVID-19 cases that were hospitalized

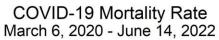
COVID-19 Percent of Cases Hospitalized March 6, 2020 - June 14, 2022

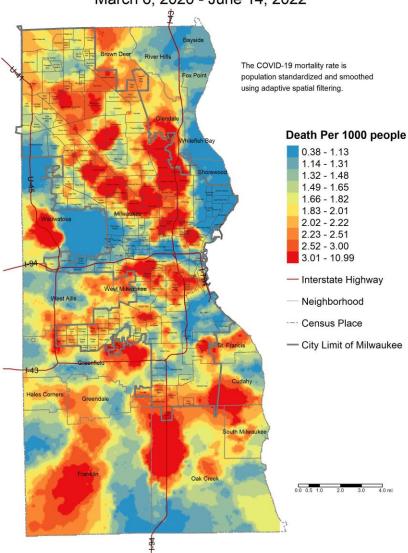


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 confirmed cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TIGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Decile Map 8: COVID-19 mortality rate (group-quarter cases excluded)





Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 10 death cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data)
City of Milwaukee Map Milwaukee Portal (neighborhood boundaries)
Census Bureau TIGER/Line Shapefiles (census place boundaries)
Created by the Milwaukee County Covid-19 Epidemiology Intel Team

Data Sources & Acknowledgments

This report was created by faculty and staff in the Medical College of Wisconsin (MCW) Institute for Health and Equity (IHE) in partnership with representatives from local health departments and faculty from the University of Wisconsin-Milwaukee Zilber School of Public Health. Data sources include the Wisconsin Electronic Disease Surveillance System (WEDSS), the US Census Bureau, the Milwaukee County Medical Examiner's office, the Emergency Medicine Resource, and publicly available data obtained from local health and emergency response agencies. Data from the Wisconsin Electronic Data Surveillance System (WEDSS) summarized for the week includes data from June 8, 2022 through June 14, 2022.

Contact Information

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