# Milwaukee County COVID-19 Data Summary

#### Milwaukee County COVID-19 Epidemiology Intel Team

This report was updated on July 21, 2022 and includes data through July 19, 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 - July 19, 2022

	Milwaukee County	City of Milwaukee	Suburbs
Total tests performed	2,871,387	1,779,635	1,091,752
Percent positive of all tests performed	10.5%	10.6%	10.3%
Number of confirmed cases	253,022	157,571	95,451
Number of hospitalizations	13,008	8,469	4,539
Number of deaths	2,219	1,266	953
Case fatality rate	0.9%	0.8%	1.0%

#### Weekly Milwaukee County COVID-19 Summary Statistics July 13, 2022 - July 19, 2022

	Milwaukee County	City of Milwaukee	Suburbs
Total tests performed	12,179	7,482	4,697
Percent positive of all tests performed	16.2%	16.5%	15.8%
Number of confirmed cases	1,422	881	541
Number of hospitalizations*	149	91	58
Number of deaths	1	0	1

<sup>\*</sup>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 253,022 cases in Milwaukee County, since the first confirmed case on March 6<sup>th</sup>, 2020. Over the last week, we observed 1,422 new confirmed cases in Milwaukee County, including 881 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 slight increase in confirmed cases in the county. The highest daily case count since the beginning of the epidemic occurred on January 3, 2022, with 4,691 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 1,711 cases confirmed. The highest case count in the city occurred on January 3, 2022, with a total of 2,980 cases confirmed.

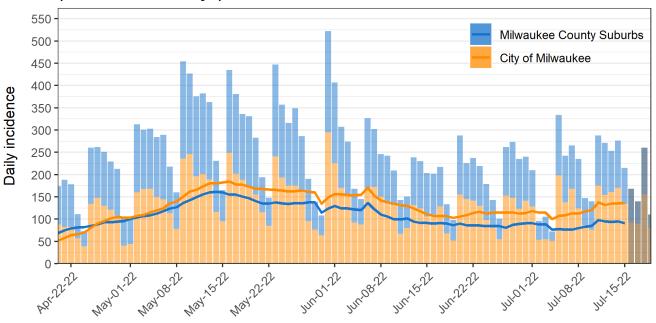
5000 Milwaukee County Suburbs 4500 City of Milwaukee 4000 3500 Daily incidence 3000 2500 2000 1500 1000 500 February Jy Jy 7010/JU 10107.21 00001.21

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

Date of specimen collection

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

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



Date of specimen collection

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

#### **Total Deaths and New Deaths**

There are a total of 2,219 COVID-19 related deaths in Milwaukee County. Over the last week, we observed 1 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.

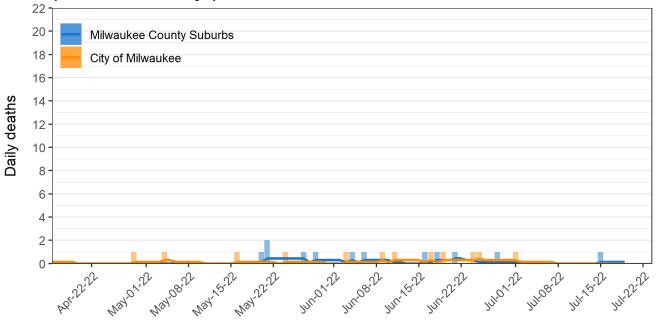
22 20 Milwaukee County Suburbs City of Milwaukee 18 16 Daily deaths 14 12 10 8 6 4 2 Wind 28 by 33 40v07.70 12 00 10 A May 01.21 Janot 21 48001.2<sup>1</sup> March 22 . Kebro 1.22 Mar. 07.22 Janol.22 Dec 01.21

Figure 2a: Milwaukee County COVID-19 daily deaths

Date of death

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

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



Date of death

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

# **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 July 6, 2022 through July 12, 2022 are 1.173 for the county, 1.161 in the city, and 1.192 in the suburbs.

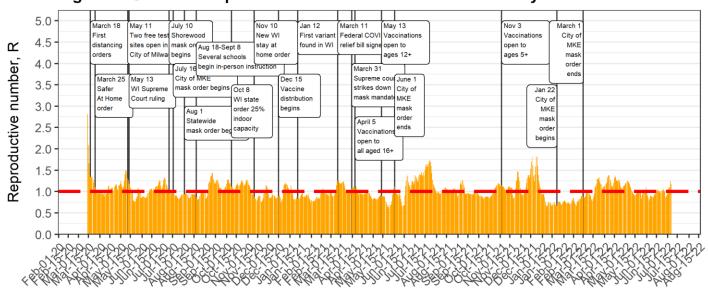
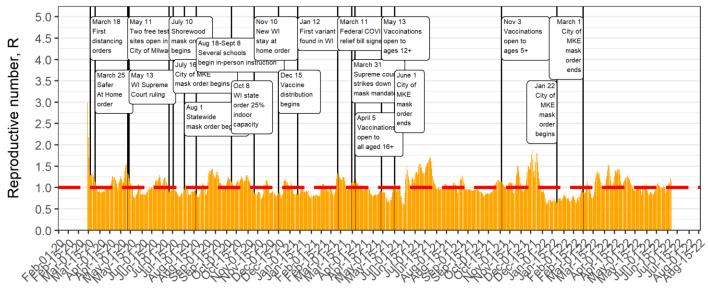


Figure 3: One week reproductive number for Milwaukee County

One-week window start date

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

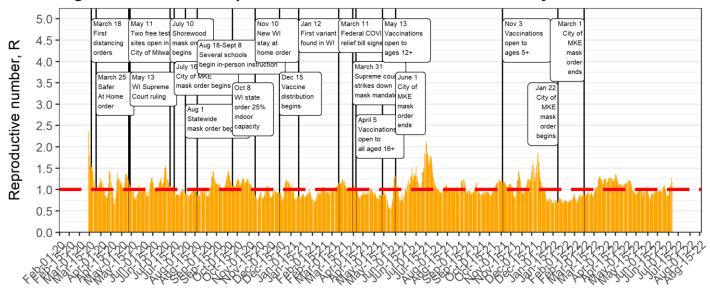
Figure 4a: One week reproductive number for City of Milwaukee



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

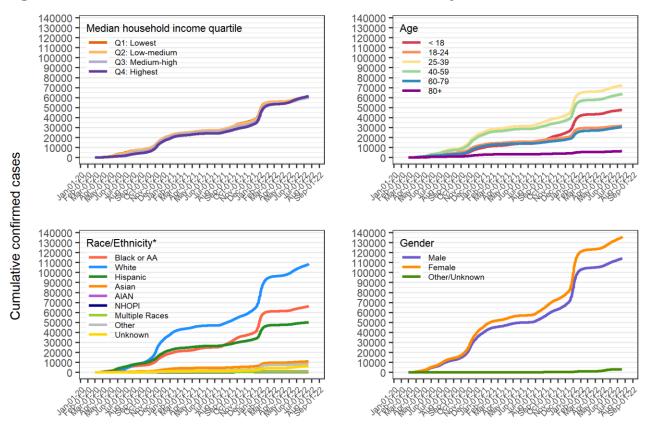
Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

# **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 = 72539) still exceeds the number among the next highest group, those aged 40-59 (N = 63715). The number of cases under age 18 (N = 47810) now exceeds the number diagnosed among those aged 18-24 (N = 31858) and 60-79 (N = 30710). 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 = 108429), followed by the Black/AA population (N = 66351) and the Hispanic population (N = 50218). 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

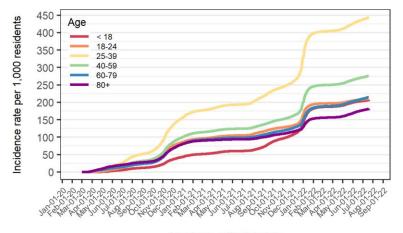
Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

\*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.

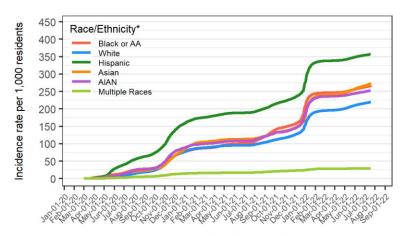
When examined as population-based rates in **Figure 6**, demographic patterns are also apparent. Early in the epidemic, we saw a clear age gradient in population-based rates, with older populations experiencing greater rates. However, since then, we have seen higher rates among the younger, working age 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 (357.23 per 1,000 people) exceeding that among all other racial and ethnic groups. The rates among Black/AAs (266.46 per 1,000), AIANs (251.78 per 1,000 people), and Asians (272.73 per 1,000 people) come next, followed by Non-Hispanic Whites (219.62 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 (275.53 per 1,000 people) exceeds the rate among males (247.75 per 1,000 people).

Figure 6: Population based incidence rates in Milwaukee County



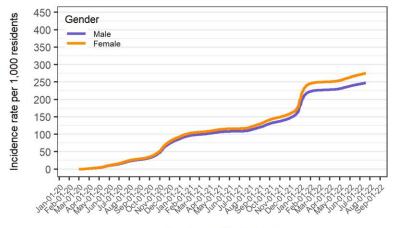
Age	N Cases	Population	Rate per 1,000 residents
< 18	47810	231111	206.87
18-24	31858	150895	211.13
25-39	72539	163246	444.35
40-59	63715	230887	275.96
60-79	30710	142783	215.08
80+	6390	35287	181.09

Specimen collection date



Race/Ethnicity*	N Cases	Population	Rate per 1,000 residents
Black or AA	66351	249011	266.46
White	108429	493723	219.62
Hispanic	50218	140575	357.23
Asian	11030	40443	272.73
AIAN	1170	4647	251.78
Multiple Races	706	24224	29.14

Specimen collection date



Gender	N Cases	Population	Rate per 1,000 residents
Male	114379	461670	247.75
Female	135708	492539	275.53

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 13008 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 = 4454). The highest number of hospitalizations have occurred among Non-Hispanic White community (N = 5503), followed by the Black/AA community (N = 4780), and then the Hispanic community (N = 1966). 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.

7000 7000 Median household income quartile Age Q1: Lowest 6000 6000 Q2: Low-medium Q3: Medium-high 18-24 25-39 5000 5000 Q4: Highest 40-59 Cumulative cases among patients who became hospitalized 60-79 4000 4000 3000 3000 2000 2000 1000 1000 7000 Race/Ethnicity' 7000 Gender Black or AA Male 6000 6000 White Female Hispanic Other/Unknown 5000 5000 Asian AIAN 4000 4000 NHOP Multiple Races 3000 3000 Other Unknown 2000 2000 1000 1000

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

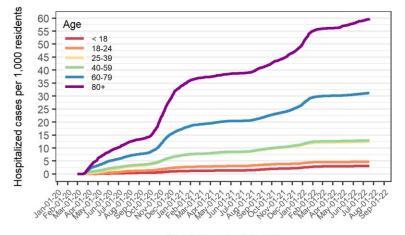
\*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race.

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

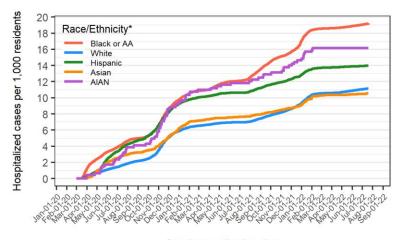
rate increases across racial and ethnic groups. Rates by gender are very similar. All rates presented are crude rates and only groups with 10 or more total hospitalized cases are shown.

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



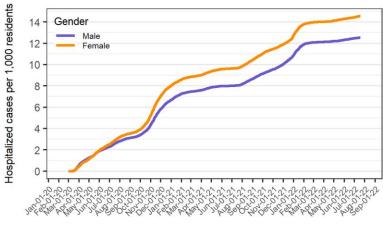
Age	N Hospitalized Cases	Rate per 1,000 residents	Rate per 100 cases
< 18	714	3.09	1.49
18-24	711	4.71	2.23
25-39	2039	12.49	2.81
40-59	2984	12.92	4.68
60-79	4454	31.19	14.50
80+	2106	59.68	32.96

Specimen collection date



Race/Ethnicity*	N Hospitalized Cases	Rate per 1,000 residents	Rate per 100 cases
Black or AA	4780	19.20	7.20
White	5503	11.15	5.08
Hispanic	1966	13.99	3.91
Asian	427	10.56	3.87
AIAN	75	16.14	6.41

Specimen collection date



Gender	N Hospitalized Cases	Rate per 1,000 residents	Rate per 100 cases
Male	5791	12.54	5.06
Female	7169	14.56	5.28

Specimen collection date

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

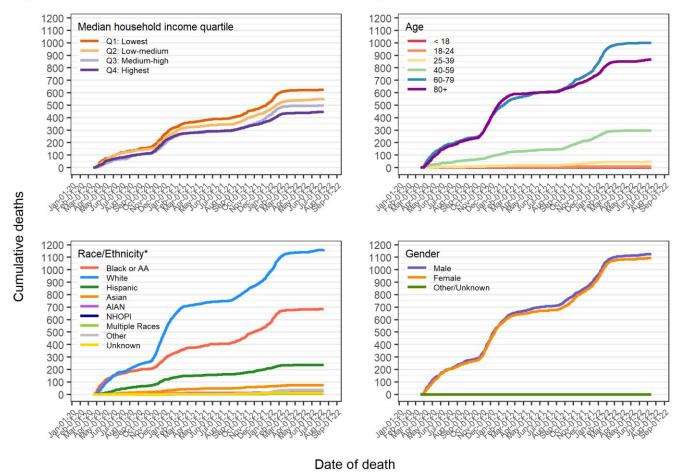
\*Race and ethnicity were combined into one variable where the Hispanic category includes Hispanics of any race.

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

#### **Deaths**

There are now a total of 2219 confirmed deaths in Milwaukee County, representing a case fatality rate of 0.9%. We observed 1 new death 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 = 1125) and for non-Hispanic Whites (N = 1160) followed by Black/AA residents (N = 684). 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.

Figure 9: Cumulative deaths in Milwaukee County



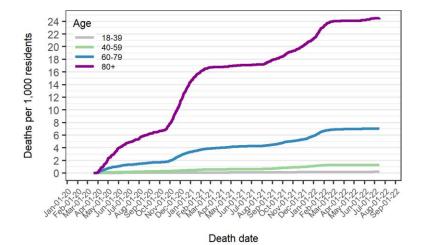
Data source: Wisconsin Electronic Disease Surveillance System (WEDSS)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

\*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.

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

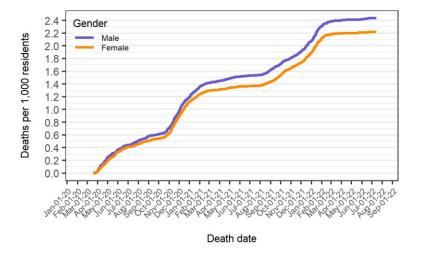


Age	N Deaths	Rate per 1,000 residents	Rate per 100 cases
18-39	55	0.18	0.05
40-59	297	1.29	0.47
60-79	1000	7.00	3.26
80+	866	24.54	13.55

Deaths per 1,000 residents	2.8 - 2.6 - 2.4 - 2.0 - 1.8 - 1.6 - 1.4 - 1.2 - 1.0 - 0.8 - 0.4 - 0.2 - 0.0 - 0.0 - 0.2 - 0.0 - 0.0 - 0.2 - 0.0 - 0.0 - 0.2 - 0.0 -	Race/Ethnic  Black o White Hispani Asian AIAN	or AA		
Δ	0.2 -		% % % % % % % % % % % % % % % % % % %	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	

Death date

Race/Ethnicity*	N Deaths	Rate per 1,000 residents	Rate per 100 cases
Black or AA	684	2.75	1.03
White	1160	2.35	1.07
Hispanic	235	1.67	0.47
Asian	74	1.83	0.67
AIAN	13	2.80	1.11



Gender	N Deaths	Rate per 1,000 residents	Rate per 100 cases
Male	1125	2.44	0.98
Female	1094	2.22	0.81

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.

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#### **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 2,871,387 COVID-19 tests have been performed, with 2,570,731 negative results and 300,656 positive results. This represents a positive test rate of 10.5% 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 16.2% over the past week compared to 15.3% 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.

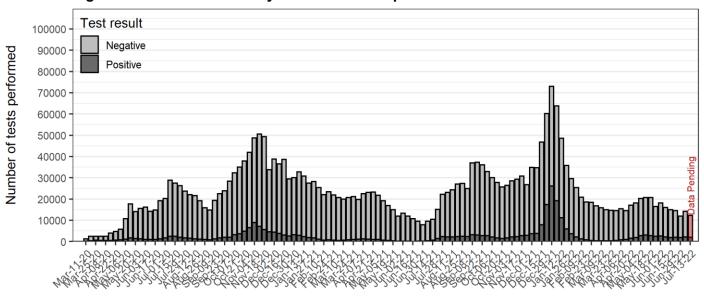
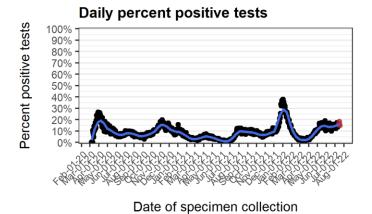


Figure 11: Milwaukee County number of tests per week

One-week window start date

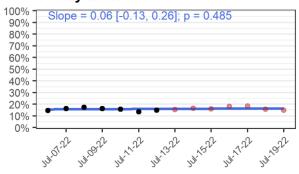
Data source: Wisconsin Electronic Disease Surveillance System (WEDSS) Created by the Milwaukee County COVID-19 Epidemiology Intel Team

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

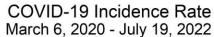


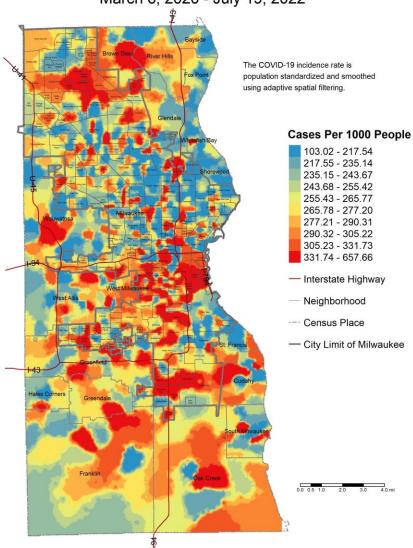
Date of specimen collection

# **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**

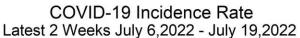


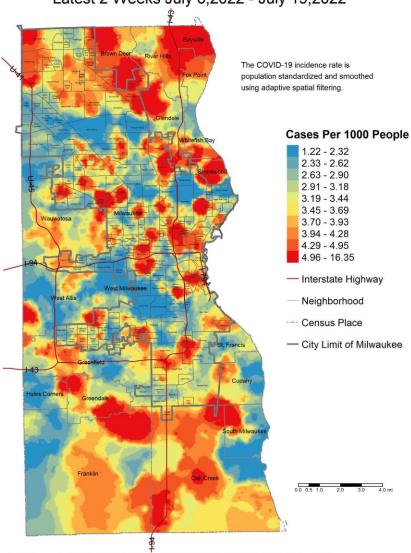


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 confirmed cases included.

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

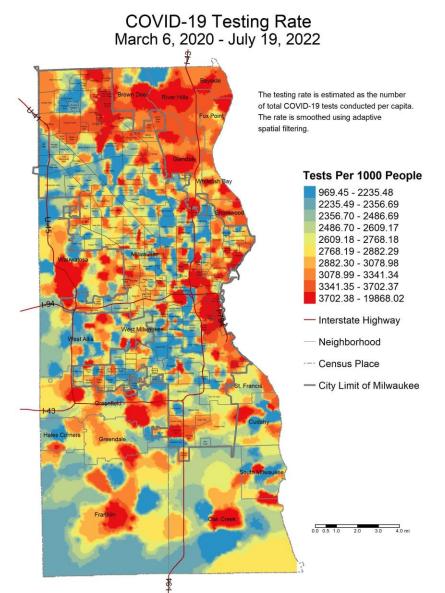




Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 confirmed cases included.

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

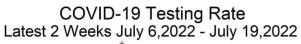
# **Decile Map 3: Overall testing rate**

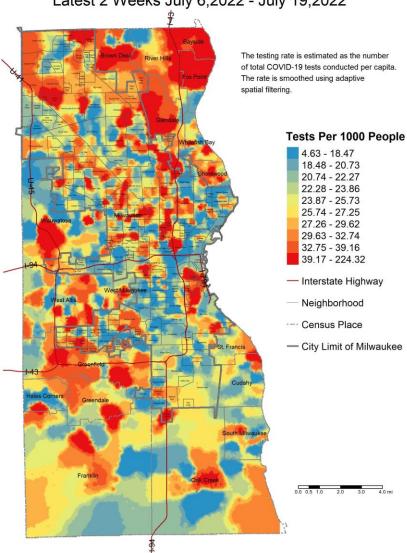


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 tests included.

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

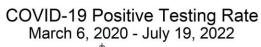


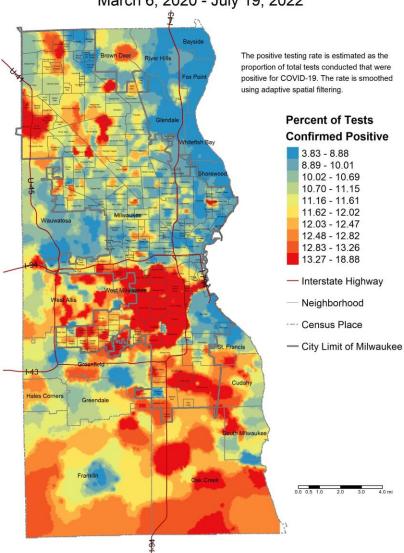


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 tests included.

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

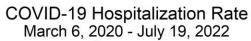


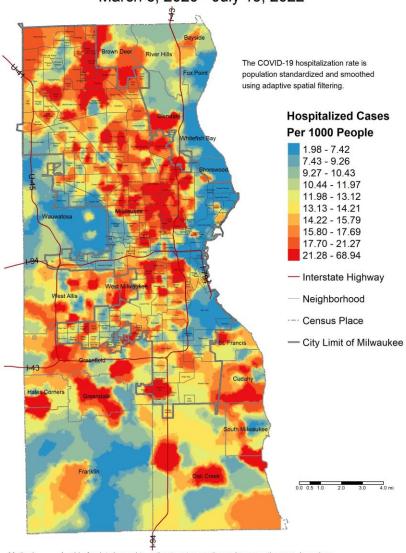


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 positive tests included.

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

# **Decile Map 6: COVID-19 related hospitalizations**



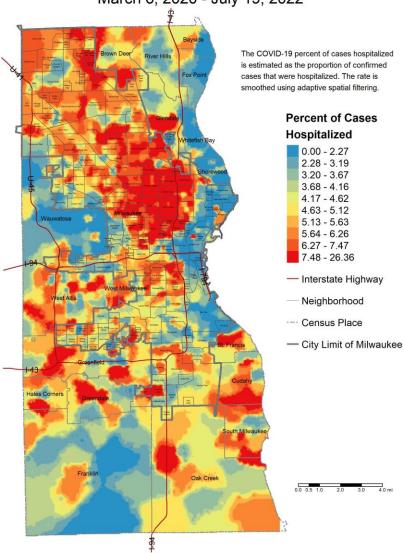


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 hospitalized cases included.

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

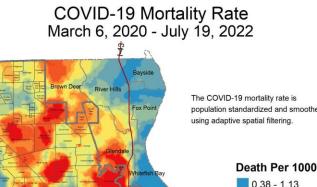
# COVID-19 Percent of Cases Hospitalized March 6, 2020 - July 19, 2022

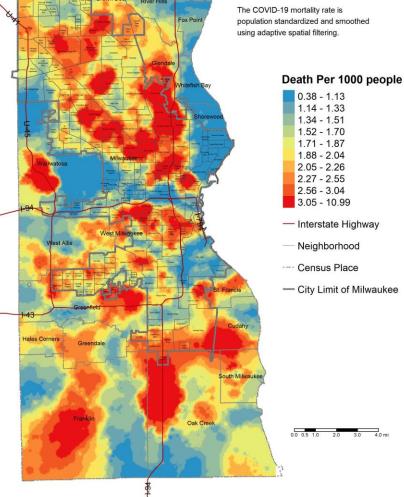


Method:
A grid of points is used to estimate rates continuously across the map, based on the nearest cases with a minimum of 15 confirmed cases included.

Data Sources: Wisconsin Electronic Disease Surveillance System (WEDSS) (incidence data) 2018 American Community Survey (population data)
City of Miiwaukee Map Miiwaukee Portal (neighborhood boundaries)
Census Bureau TIGER/Line Shapefiles (census place boundaries)
Created by the Miiwaukee 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 July 13, 2022 through July 19, 2022.

#### **Contact Information**

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