

Milwaukee County COVID-19 vaccine data summary

Milwaukee County COVID-19 Epidemiology Intel Team

This report was updated on October 20, 2022 and includes data through October 17, 2022. Note that data for recent weeks may be under-reported due to lags in data entry. This report includes data on primary vaccinations and booster doses.

Milwaukee County COVID-19 Vaccination Totals December 12, 2020 - October 17, 2022			
	Milwaukee County	City of Milwaukee	Suburbs
Total primary vaccine doses administered	1,183,958	675,773	508,185
Pfizer	718,372	434,425	283,947
Pfizer Age 5-11	58,695	30,773	27,922
Pfizer Age 6M-4Y	6,959	2,687	4,272
Moderna	358,836	184,241	174,595
Moderna Age 6m-5Y	4,540	1,809	2,731
Johnson & Johnson	34,779	20,840	13,939
Total vaccine doses administered (including boosters)	1,652,371	911,311	741,060
Pfizer	966,485	570,443	396,042
Pfizer Age 5-11	64,148	32,984	31,164
Pfizer Age 6M-4Y	6,976	2,700	4,276
Pfizer Bivalent Booster	40,774	20,852	19,922
Moderna	509,913	251,819	258,094
Moderna Age 6M-5Y	4,560	1,813	2,747
Moderna Bivalent Booster	21,982	8,399	13,583
Johnson & Johnson	37,533	22,301	15,232
*Total individuals with one or more doses	629,691	362,652	267,039
Pfizer	371,438	226,166	145,272
Pfizer Age 5-11	31,240	16,825	14,415
Pfizer Age 6M-4Y	3,575	1,508	2,067
Moderna	185,066	95,696	89,370
Moderna Age 6M-5Y	2,715	1,116	1,599
Johnson & Johnson	34,670	20,772	13,898
*Total individuals completely vaccinated	586,351	332,935	253,416
Pfizer	347,133	208,205	138,928
Pfizer Age 5-11	27,643	14,078	13,565
Pfizer Age 6M-4Y	860	250	610
Moderna	174,219	88,936	85,283
Moderna Age 6M-5Y	1,826	694	1,132
Johnson & Johnson	34,670	20,772	13,898
*Total individuals boosted	336,153	174,819	161,334
Pfizer	200,067	108,982	91,085
Pfizer Age 5-11	6,014	2,444	3,570
Pfizer Age 6M-4Y	1	0	1
Moderna	113,804	54,084	59,720
Moderna Age 6M-5Y	3	1	2
Johnson & Johnson	16,264	9,308	6,956
*Individuals are grouped by the first vaccine product received. Note a small number of people received a different vaccine product for their second dose in a series			

**Percentage of Population Vaccinated
December 12, 2020 - October 17, 2022**

	Overall	Ages 5+	Ages 12+	Ages 16+
Milwaukee County				
*Population	954,209	887,487	796,322	747,409
Received one or more doses	66.0%	70.2%	74.3%	75.1%
Completely vaccinated	61.4%	65.8%	69.8%	70.6%
City of Milwaukee				
*Population	596,886	551,401	489,445	456,809
Received one or more doses	60.8%	65.3%	70.1%	71.2%
Completely vaccinated	55.8%	60.2%	64.9%	66.0%
Milwaukee County Suburbs				
*Population	357,323	336,086	306,877	290,600
Received one or more doses	74.7%	78.4%	81.1%	81.4%
Completely vaccinated	70.9%	74.9%	77.6%	77.8%

***Population estimates from 2018 US Census American Community Survey**

**Percentage of Population Boosted
December 12, 2020 - October 17, 2022**

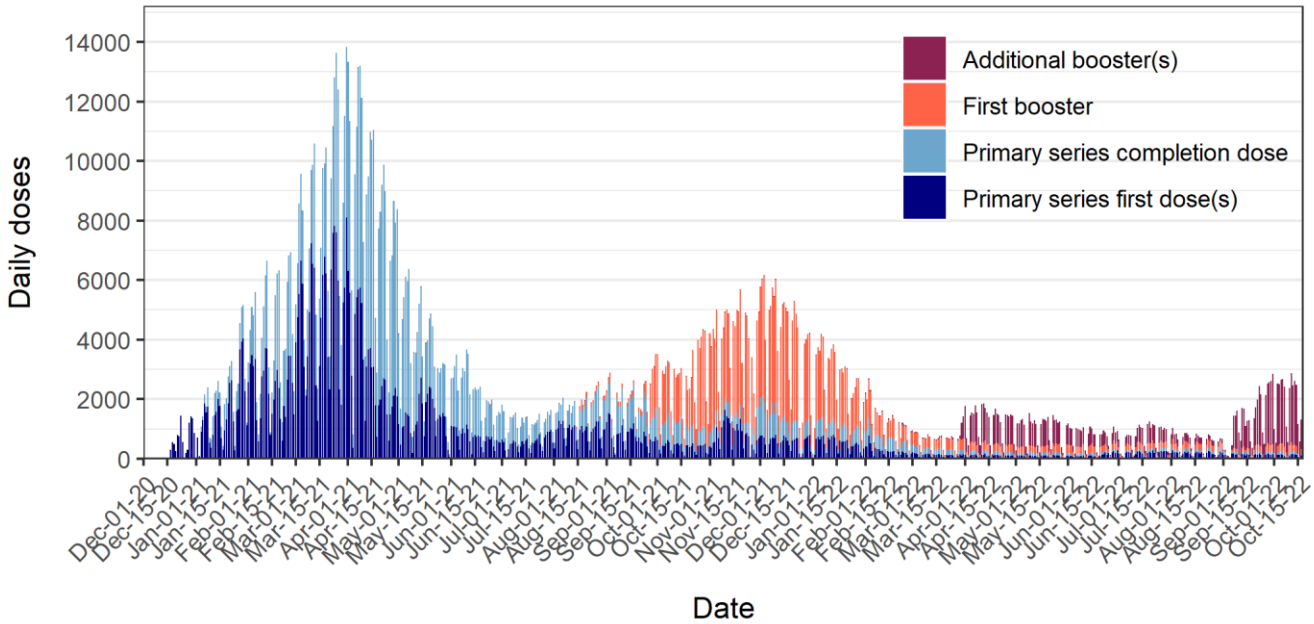
	Overall	**Booster eligible
Milwaukee County		
*Population	954,209	575,090
Received booster dose	35.2%	58.4%
City of Milwaukee		
*Population	596,886	325,947
Received booster dose	29.3%	53.6%
Milwaukee County Suburbs		
*Population	357,323	249,143
Received booster dose	45.2%	64.7%

***Overall population estimates from 2018 US Census American Community Survey
Booster eligible population is aged 5+ with complete primary vaccination prior to May 20, 2022 for Pfizer or Moderna series, or prior to August 18, 2022 for Johnson & Johnson

Daily COVID-19 doses administered to Milwaukee County residents

Figure 1 shows daily total COVID-19 vaccine doses administered to Milwaukee County residents. A total of 1,652,371 doses (including first booster doses) have been administered from December 12, 2020 through October 17, 2022. The dark blue color represents the first dose in a series (Pfizer or Moderna). The light blue color indicates a completion dose (first dose of Johnson & Johnson, second dose of Pfizer or Moderna, or third dose for Pfizer age 6M-4Y). The orange color indicates a booster dose (second dose following Johnson & Johnson or third dose following Pfizer or Moderna series).

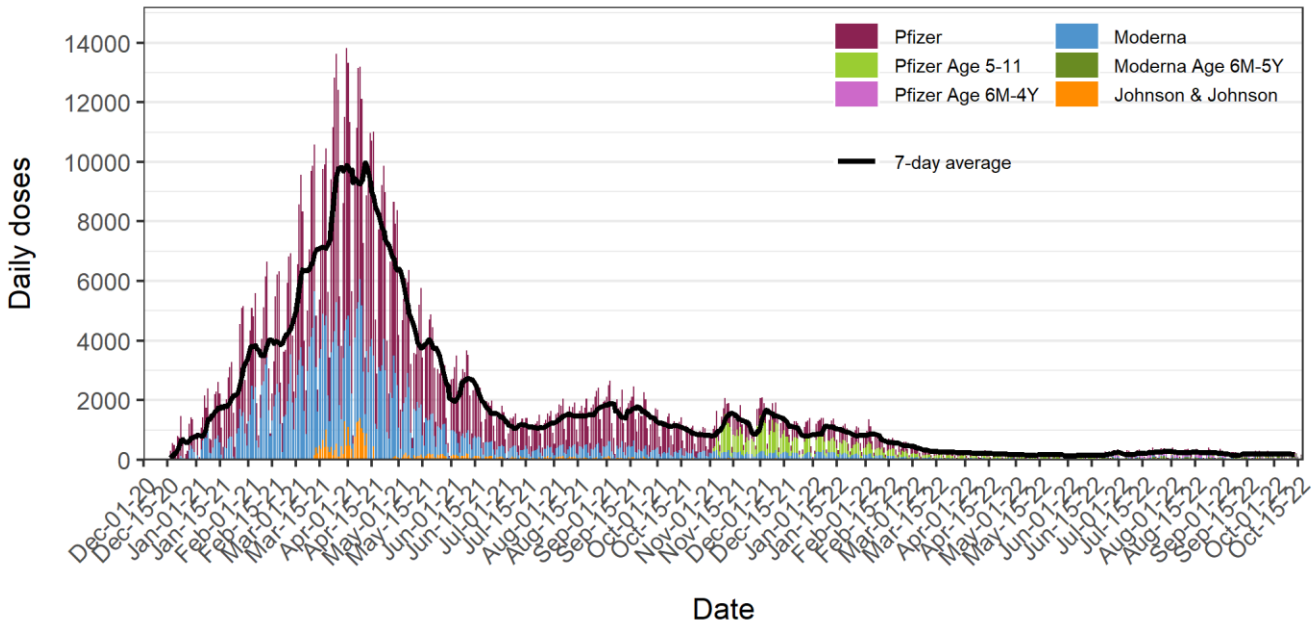
Figure 1: Daily COVID-19 vaccine doses administered to Milwaukee Co. residents



Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

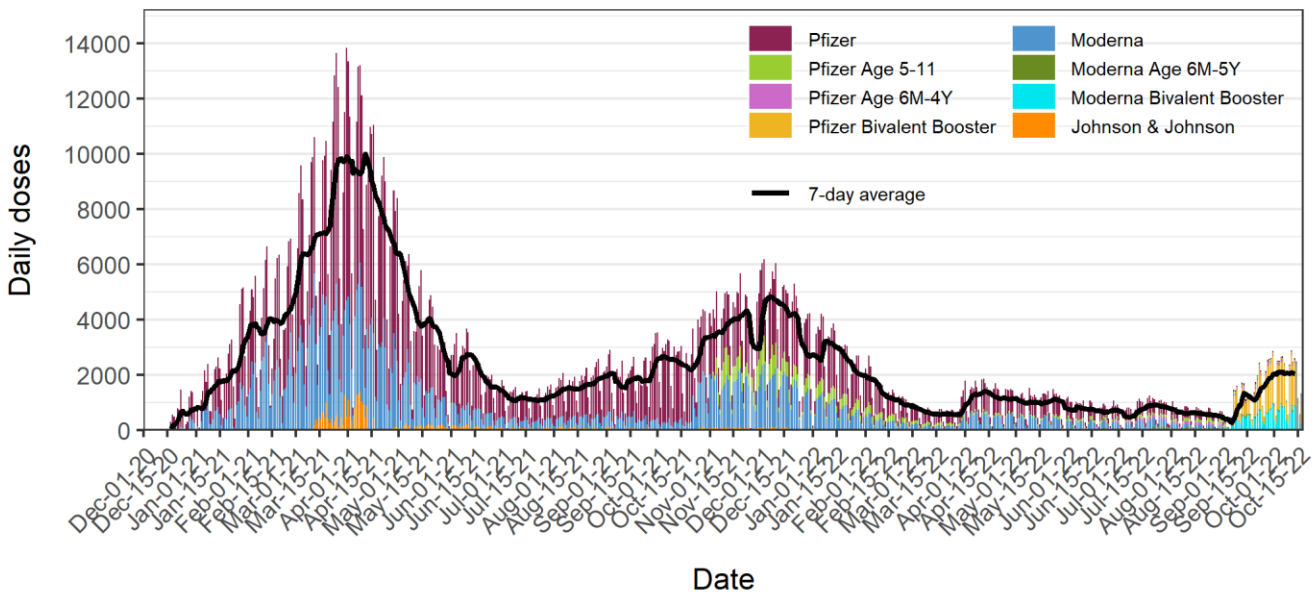
Figures 2a and 2b show daily COVID-19 vaccine doses administered to Milwaukee County residents; **Figure 2a** includes primary vaccination doses only, and **Figure 2b** shows all doses including boosters. The overlaid black line shows the 7-day average of daily doses and the bars are colored by vaccine: Pfizer (red), Pfizer Age 5-11 (green), Moderna (blue), and Johnson & Johnson (orange). Daily primary vaccination doses peaked in late March to early April 2021 and have since declined until mid-summer when slight increases occurred in tandem with increasing cases thought to be driven by the delta variant. An increase in primary vaccination doses is observed in the second week of November 2021, driven by new eligibility among ages 5-11.

Figure 2a: Daily COVID-19 primary vaccination doses administered to Milwaukee Co. residents



Data source: Wisconsin Immunization Registry (WIR)
 Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 2b: Daily COVID-19 vaccination doses administered to Milwaukee Co. residents (includes booster doses)

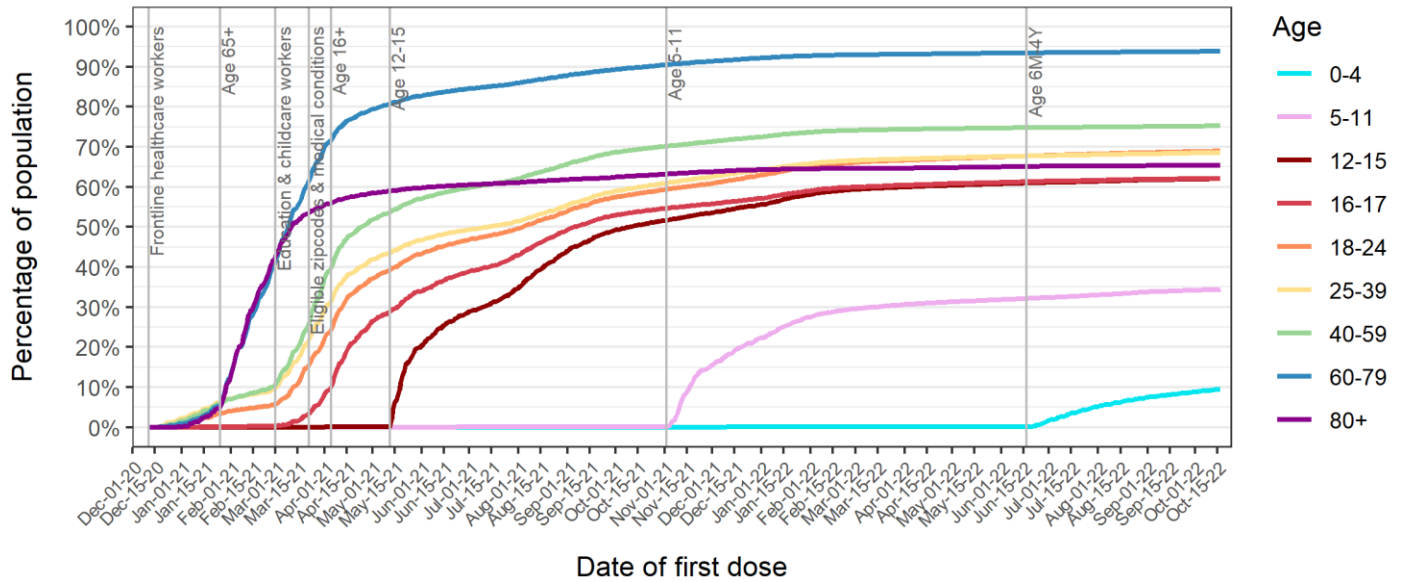


Data source: Wisconsin Immunization Registry (WIR)
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Percentages of Milwaukee County residents partially and completely vaccinated by age group

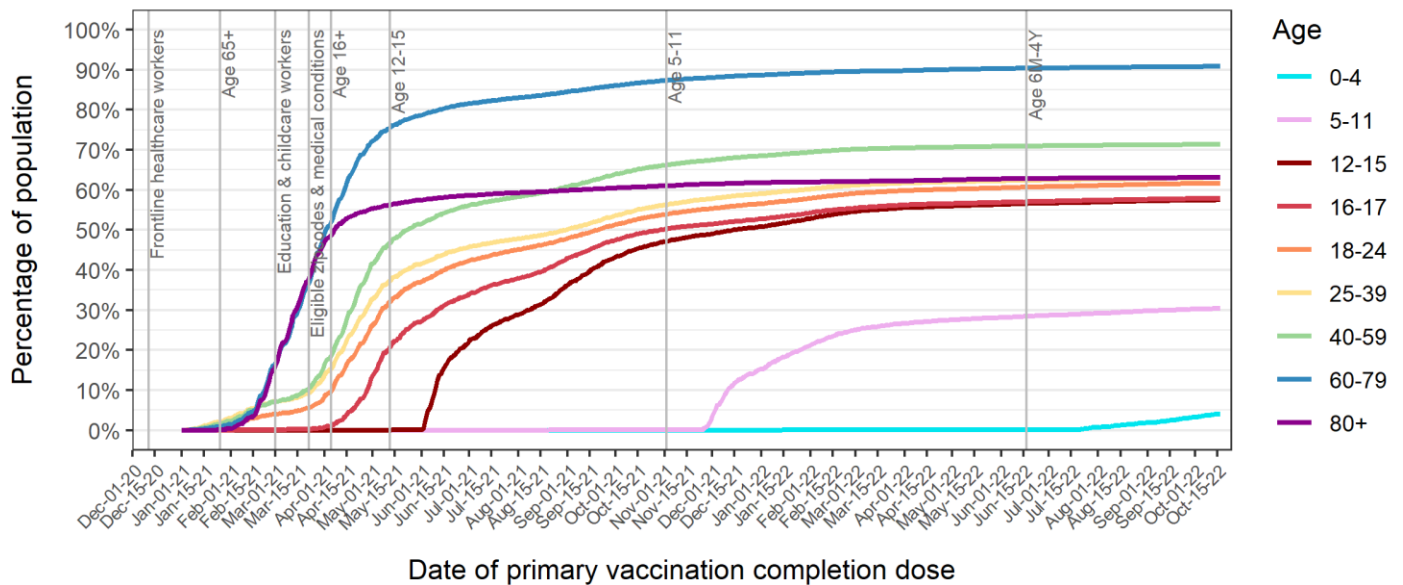
Figure 3 shows the percentage over time of Milwaukee County residents who received at least one dose of any COVID-19 vaccine by age group. **Figure 4** shows the percentage over time of Milwaukee County residents who are completely vaccinated with any COVID-19 vaccine by age group. The vertical lines show changes in vaccine eligibility in Milwaukee County.

Figure 3: Percent of Milwaukee Co. residents with at least one dose of any COVID-19 vaccine



Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 4: Percent of Milwaukee Co. residents completely vaccinated with any COVID-19 vaccine

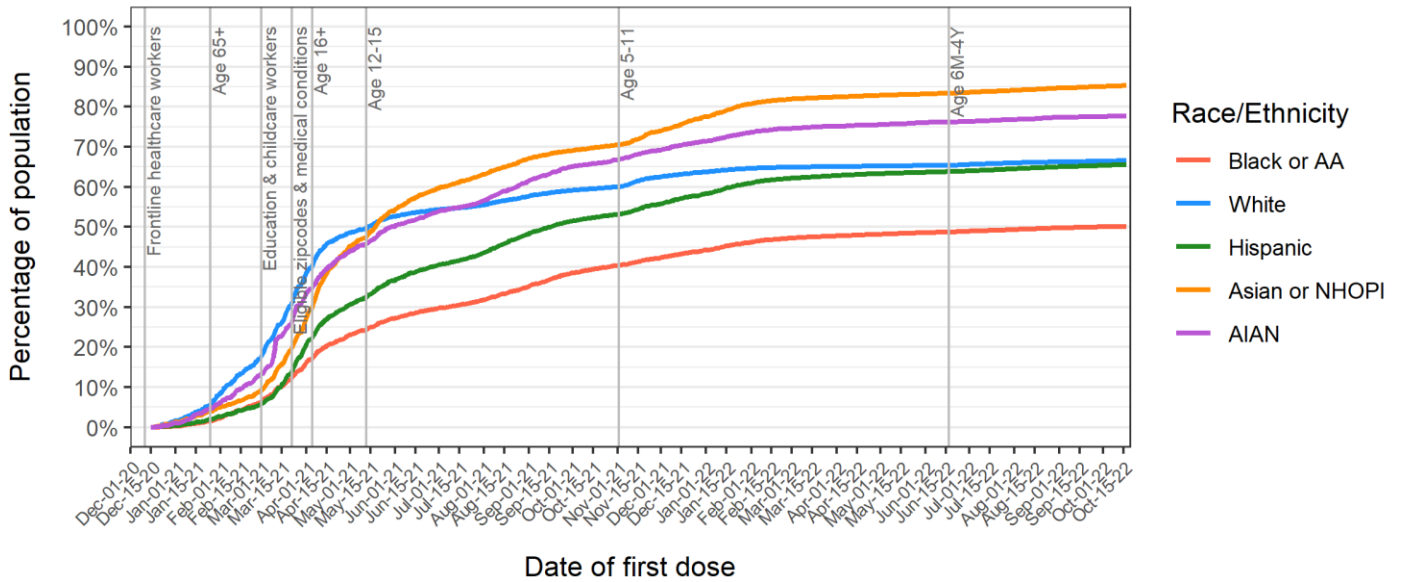


Data source: Wisconsin Immunization Registry (WIR)
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Percentages of Milwaukee County residents partially and completely vaccinated by race/ethnicity group

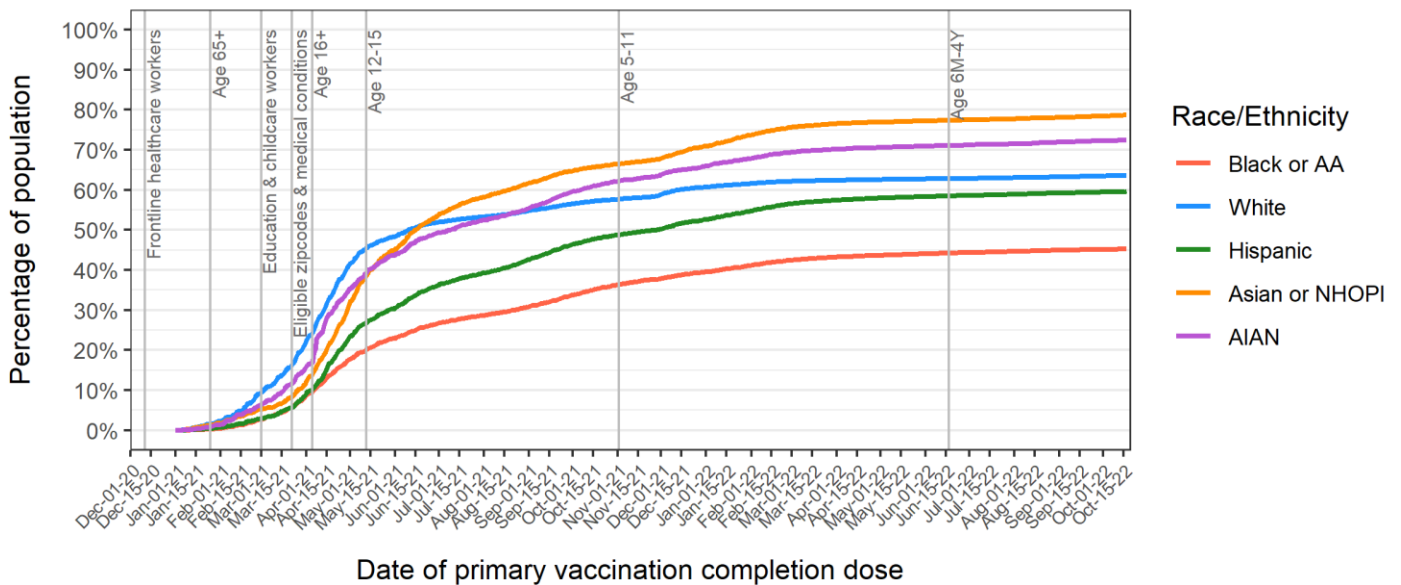
Figure 5 shows the percentage over time of Milwaukee County residents who received at least one dose of any COVID-19 vaccine by race/ethnicity group. **Figure 6** shows the percentage over time of Milwaukee County residents who are completely vaccinated with any COVID-19 vaccine by race/ethnicity group. The vertical lines show changes in vaccine eligibility in Milwaukee County.

Figure 5: Percent of Milwaukee Co. residents with at least one dose of any COVID-19 vaccine



Data source: Wisconsin Immunization Registry (WIR)
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Figure 6: Percent of Milwaukee Co. residents completely vaccinated with any COVID-19 vaccine



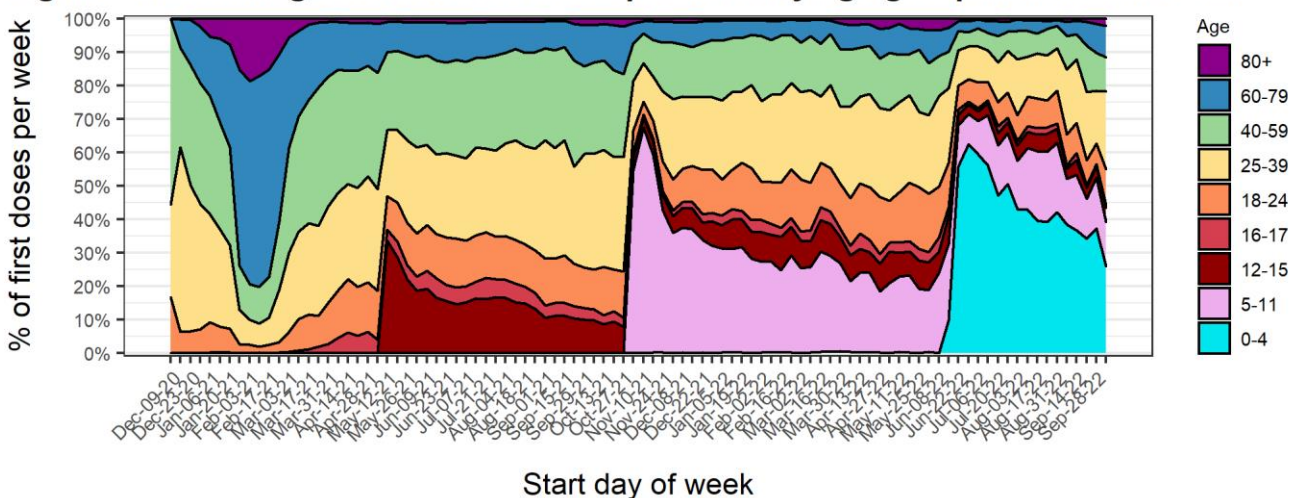
Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Percentages of first doses of COVID-19 vaccine administered to Milwaukee County residents by age and race/ethnicity groups

Figure 7 shows the percentage of first doses of COVID-19 vaccine administered per week to Milwaukee County residents by age group. After vaccines first became available to healthcare personnel, middle-aged groups (25-59) were the majority of new vaccinees. After eligibility opened up to ages 65+, the oldest two age groups became the majority. The younger age groups (< 60) became the majority of people newly vaccinated since eligibility opened up to education staff on March 1st. With the eligibility of children aged 12+, we observed a sharp increase in vaccination for children. Similar increases were observed with the new eligibility of children ages 5-11, and later for ages 6M-4Y.

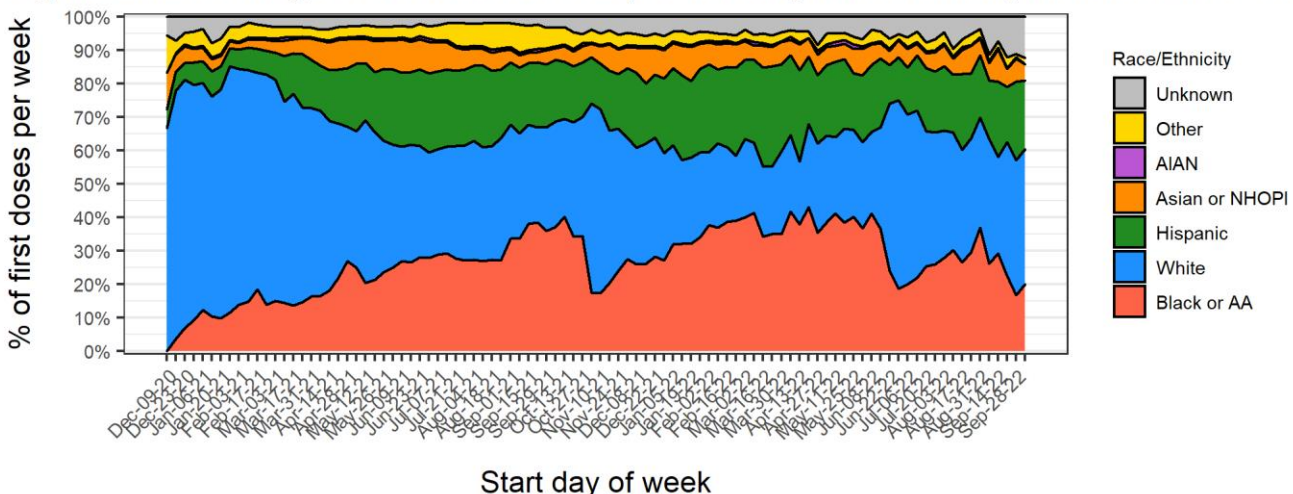
Figure 8 shows the percentage of first doses of COVID-19 vaccine administered per week to Milwaukee County residents by race/ethnicity. Non-Hispanic Whites were the majority of newly vaccinated individuals for many months, however Black/AA and Hispanic groups have become an increasing proportion of the newly vaccinated over time.

Figure 7: Percentage of total first doses per week by age group in Milwaukee Co.



Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 8: Percentage of total first doses per week by race/ethnicity in Milwaukee Co.



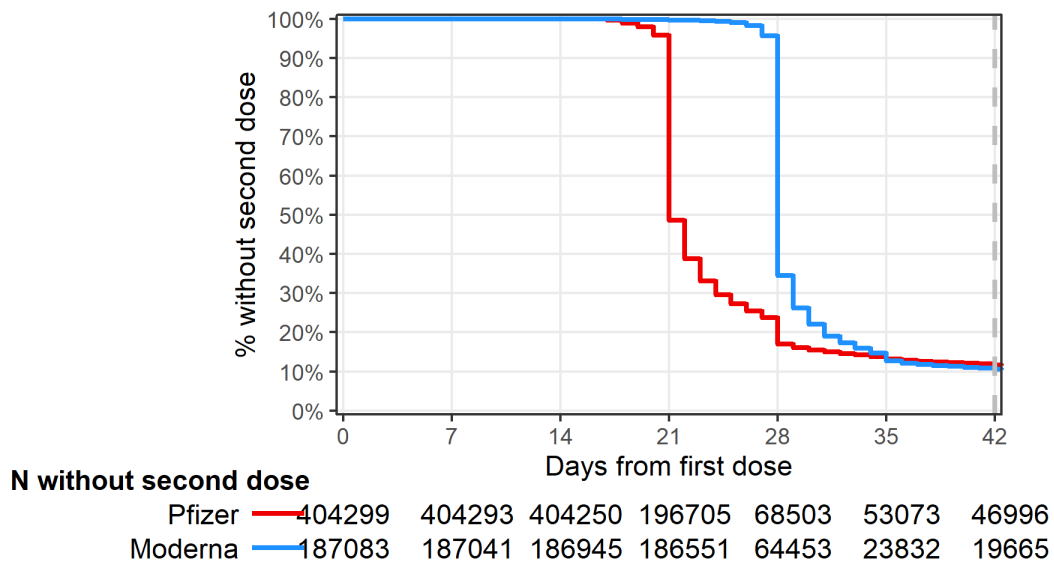
Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Completion of primary immunization series among Milwaukee County residents who received at least one dose of Pfizer or Moderna vaccines

Figure 9 describes the timing between primary vaccination doses for Milwaukee County residents who received Pfizer or Moderna vaccines. This graph includes data for residents who received their first dose of Pfizer or Moderna at least 42 days ago (prior to September 4, 2022). The recommended interval for receiving the second dose is 21 days for the Pfizer vaccine and 28 days for the Moderna vaccine; the second dose is considered valid if administered 4 days prior to the recommended interval and up to 42 days following the first dose for each vaccine.

Fully 88.7% of all residents who received their first dose of Pfizer prior to September 4, 2022 received their second dose within 42 days, indicating very strong completion within guidelines for those receiving a first dose.

Figure 9: Vaccine series completion among Milwaukee Co. residents receiving Pfizer or Moderna



Data source: Wisconsin Immunization Registry (WIR)
 Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Summary of vaccine series completion and booster rates among vaccinated Milwaukee County residents

Table 1 summarizes the rates of primary vaccination series completion and booster uptake by groups based on first vaccine product received, age, sex, and race/ethnicity. The first column, rates of primary vaccination series completion, includes data for residents who received a first dose of Pfizer or Moderna at least 42 days ago; 42 days is the maximum recommended period for receiving the second dose. The second column, rates of booster uptake, includes data for booster eligible residents only; booster eligibility criteria are currently age 12 or older, with one dose of Johnson & Johnson vaccine at least 2 months ago or completion of Pfizer or Moderna primary vaccination series at least 5 months ago. While vaccine series completion rates are high and vary only slightly among groups, receipt of booster doses among booster eligible individuals varies significantly by vaccine product, age, and race/ethnicity with slight variation by sex.

Characteristic	Percent with second dose within 42 days among Pfizer and Moderna recipients ¹	*Percent boosted among eligible ¹
First vaccine received		
Pfizer	357,303 / 404,299 (88.4%)	205,913 / 367,737 (56.0%)
Moderna	167,418 / 187,083 (89.5%)	113,734 / 172,731 (65.8%)
Johnson & Johnson		16,264 / 34,622 (47.0%)
Age		
0-4	3,776 / 5,052 (74.7%)	
5-11	24,919 / 30,826 (80.8%)	6,007 / 25,475 (23.6%)
12-15	26,442 / 30,206 (87.5%)	10,750 / 27,494 (39.1%)
16-17	13,199 / 15,036 (87.8%)	5,988 / 13,809 (43.4%)
18-24	47,873 / 57,559 (83.2%)	21,922 / 54,690 (40.1%)
25-39	123,745 / 142,385 (86.9%)	68,670 / 139,129 (49.4%)
40-59	144,272 / 159,611 (90.4%)	99,580 / 163,550 (60.9%)
60-79	119,543 / 128,151 (93.3%)	104,001 / 128,818 (80.7%)
80+	20,952 / 22,556 (92.9%)	18,993 / 22,125 (85.8%)
Sex		
Female	281,856 / 316,359 (89.1%)	183,819 / 305,431 (60.2%)
Male	241,722 / 273,565 (88.4%)	151,528 / 268,389 (56.5%)
Unknown	1,143 / 1,458 (78.4%)	564 / 1,270 (44.4%)
Race/Ethnicity		
Black or AA	96,432 / 116,453 (82.8%)	53,136 / 109,410 (48.6%)
White	287,021 / 310,056 (92.6%)	209,676 / 309,555 (67.7%)
Hispanic	73,023 / 85,681 (85.2%)	37,369 / 81,839 (45.7%)
Asian or NHOPI	29,468 / 33,414 (88.2%)	15,738 / 31,334 (50.2%)
AIAN	2,985 / 3,396 (87.9%)	1,832 / 3,289 (55.7%)
Other	20,394 / 23,210 (87.9%)	11,081 / 22,242 (49.8%)
Unknown	15,398 / 19,172 (80.3%)	7,079 / 17,421 (40.6%)

¹n / N (%)

*Booster eligible population is aged 5+ with complete primary vaccination prior to May 20, 2022 for Pfizer or Moderna series, or prior to August 18, 2022 for Johnson & Johnson

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 Immunization Registry (WIR) and the US Census Bureau.

Contact Information

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