

Milwaukee County COVID-19 vaccine data summary

Milwaukee County COVID-19 Epidemiology Intel Team

This report was updated on December 8, 2022 and includes data through December 5, 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 - December 5, 2022			
	Milwaukee County	City of Milwaukee	Suburbs
Total primary vaccine doses administered	1,190,418	678,765	511,653
Pfizer	719,619	434,924	284,695
Pfizer Age 5-11	59,661	31,408	28,253
Pfizer Age 6M-4Y	8,967	3,561	5,406
Moderna	358,310	183,784	174,526
Moderna Age 6m-5Y	5,578	2,230	3,348
Johnson & Johnson	34,832	20,825	14,007
Total vaccine doses administered (including boosters)	1,727,705	947,662	780,043
Pfizer	968,451	571,012	397,439
Pfizer Age 5-11	65,308	33,703	31,605
Pfizer Age 6M-4Y	8,991	3,578	5,413
Pfizer Bivalent Booster	87,556	46,342	41,214
Moderna	509,120	251,105	258,015
Moderna Age 6M-5Y	5,606	2,239	3,367
Moderna Bivalent Booster	45,098	17,412	27,686
Johnson & Johnson	37,575	22,271	15,304
*Total individuals with one or more doses	633,058	364,438	268,620
Pfizer	372,218	226,556	145,662
Pfizer Age 5-11	31,754	17,177	14,577
Pfizer Age 6M-4Y	4,253	1,869	2,384
Moderna	184,853	95,508	89,345
Moderna Age 6M-5Y	3,200	1,318	1,882
Johnson & Johnson	34,718	20,751	13,967
*Total individuals completely vaccinated	588,892	333,846	255,046
Pfizer	348,316	208,713	139,603
Pfizer Age 5-11	28,071	14,361	13,710
Pfizer Age 6M-4Y	1,636	504	1,132
Moderna	173,758	88,595	85,163
Moderna Age 6M-5Y	2,384	916	1,468
Johnson & Johnson	34,718	20,751	13,967
*Total individuals boosted	343,819	179,206	164,613
Pfizer	204,986	112,003	92,983
Pfizer Age 5-11	6,620	2,710	3,910
Pfizer Age 6M-4Y	3	0	3
Moderna	115,592	54,992	60,600
Moderna Age 6M-5Y	12	7	5
Johnson & Johnson	16,604	9,493	7,111
*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 - December 5, 2022**

	Overall	Ages 5+	Ages 12+	Ages 16+
Milwaukee County				
*Population	954,209	887,487	796,322	747,409
Received one or more doses	66.3%	70.5%	74.6%	75.4%
Completely vaccinated	61.7%	65.9%	69.9%	70.7%
City of Milwaukee				
*Population	596,886	551,401	489,445	456,809
Received one or more doses	61.1%	65.5%	70.3%	71.3%
Completely vaccinated	55.9%	60.3%	65.0%	66.1%
Milwaukee County Suburbs				
*Population	357,323	336,086	306,877	290,600
Received one or more doses	75.2%	78.7%	81.4%	81.7%
Completely vaccinated	71.4%	75.1%	77.8%	78.0%

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

**Percentage of Population Boosted
December 12, 2020 - December 5, 2022**

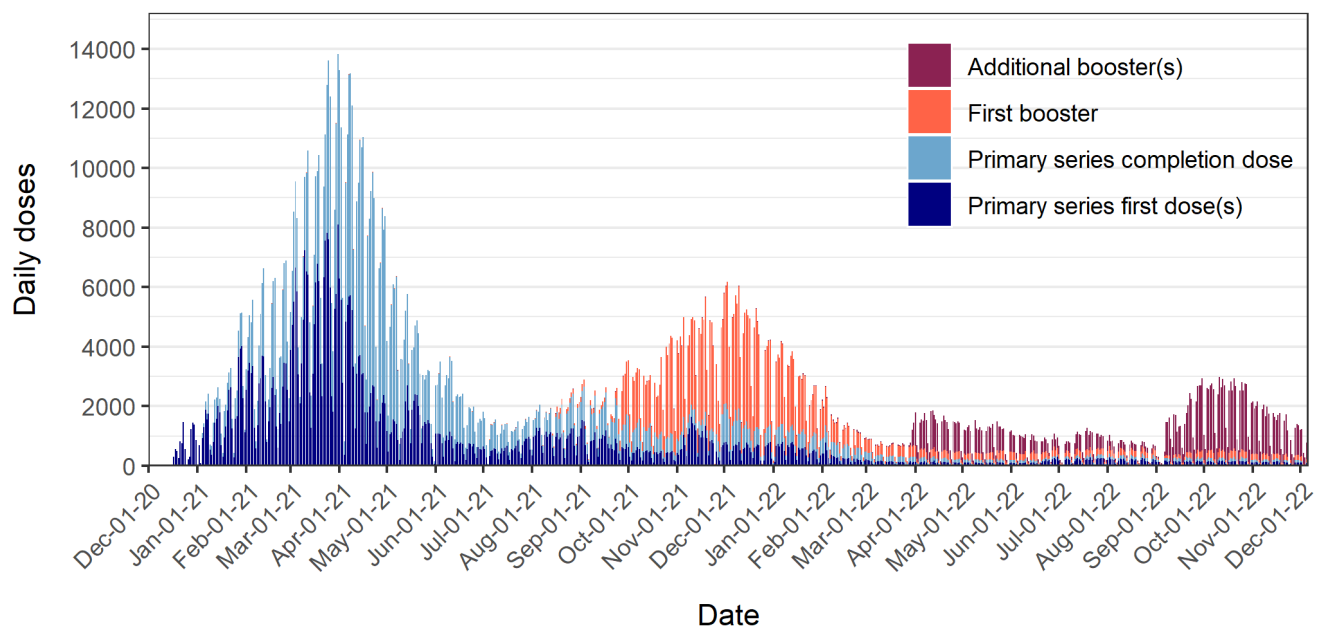
	Overall	**Booster eligible
Milwaukee County		
*Population	954,209	577,714
Received booster dose	36.0%	59.5%
City of Milwaukee		
*Population	596,886	327,398
Received booster dose	30.0%	54.7%
Milwaukee County Suburbs		
*Population	357,323	250,316
Received booster dose	46.1%	65.7%

***Overall population estimates from 2018 US Census American Community Survey
Booster eligible population is aged 5+ with complete primary vaccination prior to July 8, 2022 for Pfizer or Moderna series, or prior to October 6, 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 1,727,705 doses (including booster doses) have been administered from December 12, 2020 through December 5, 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).

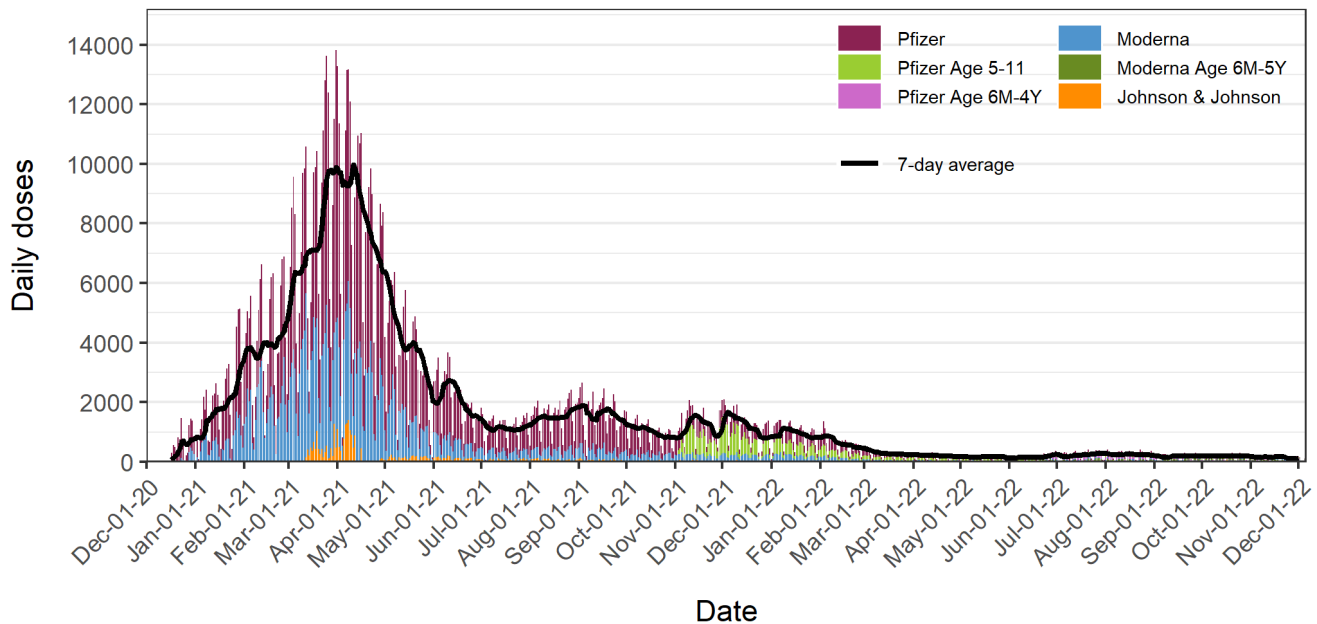
Figure 1: Daily COVID-19 vaccine doses administered to Milwaukee Co. residents



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

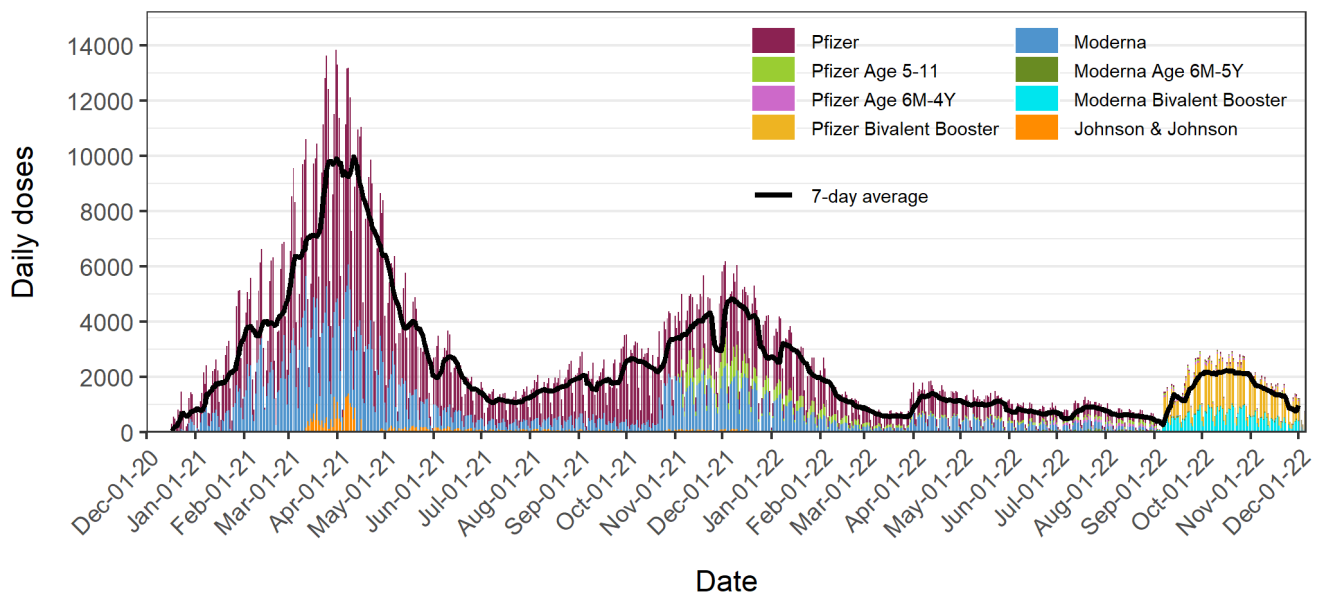
Figures 2a and 2b show daily COVID-19 vaccine doses administered to Milwaukee County residents; **Figure 2a** includes primary vaccination doses only, and **Figure 2b** shows all doses including boosters. The overlaid black line shows the 7-day average of daily doses and the bars are colored by vaccine: 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)

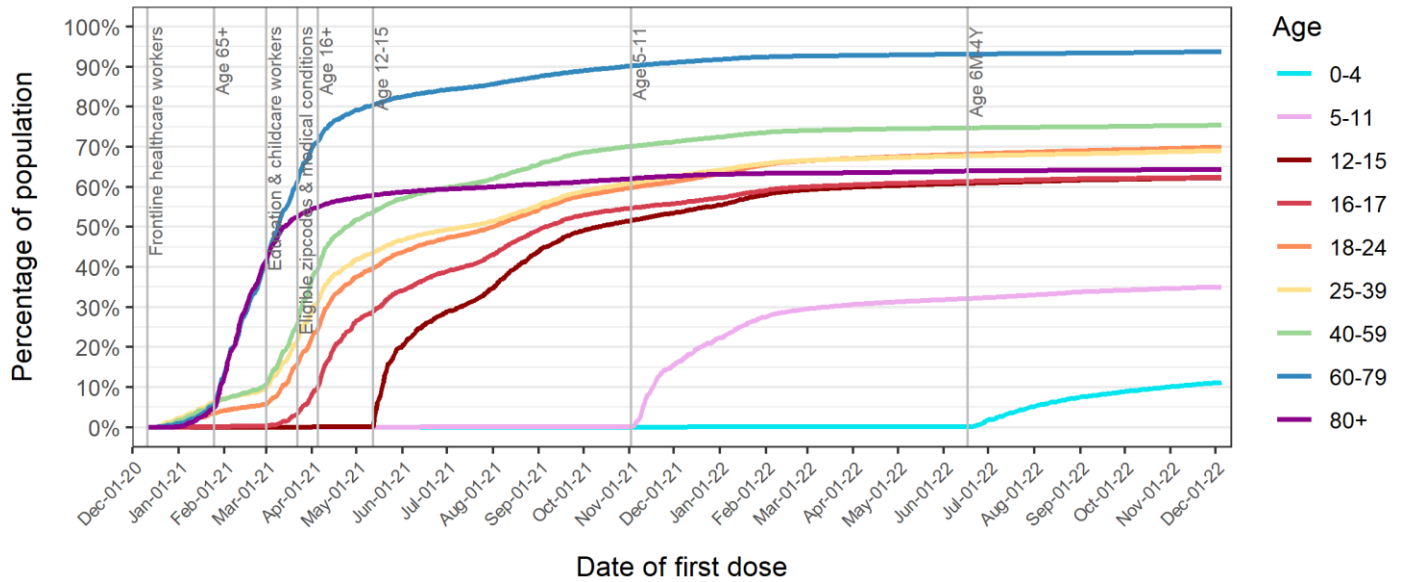


Data source: Wisconsin Immunization Registry (WIR)
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Percentages of Milwaukee County residents partially and completely vaccinated by age group

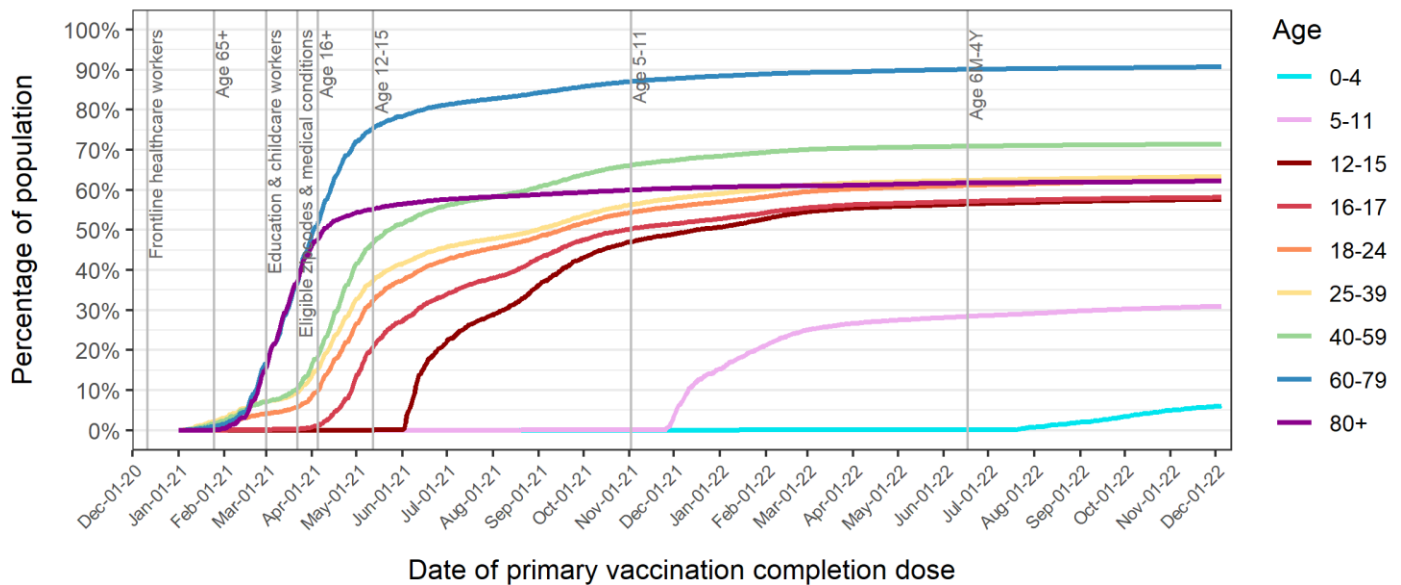
Figure 3 shows the percentage over time of Milwaukee County residents who received at least one dose of any COVID-19 vaccine by age group. **Figure 4** shows the percentage over time of Milwaukee County residents who are completely vaccinated with any COVID-19 vaccine by age group. The vertical lines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

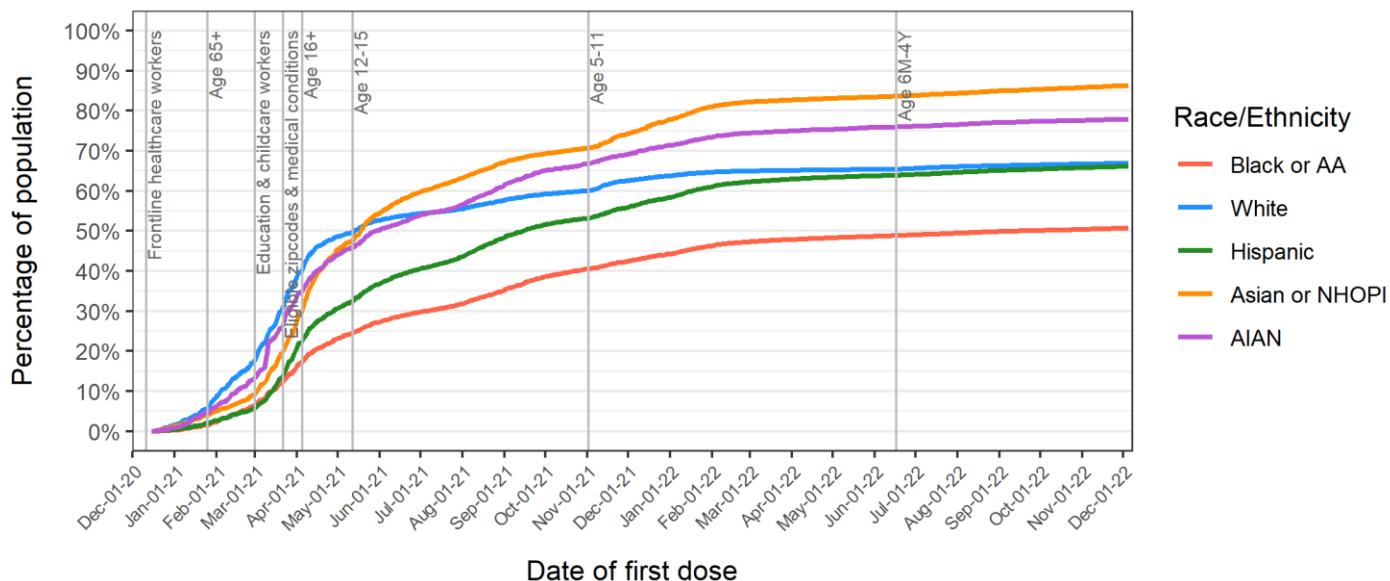


Data source: Wisconsin Immunization Registry (WIR)
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Percentages of Milwaukee County residents partially and completely vaccinated by race/ethnicity group

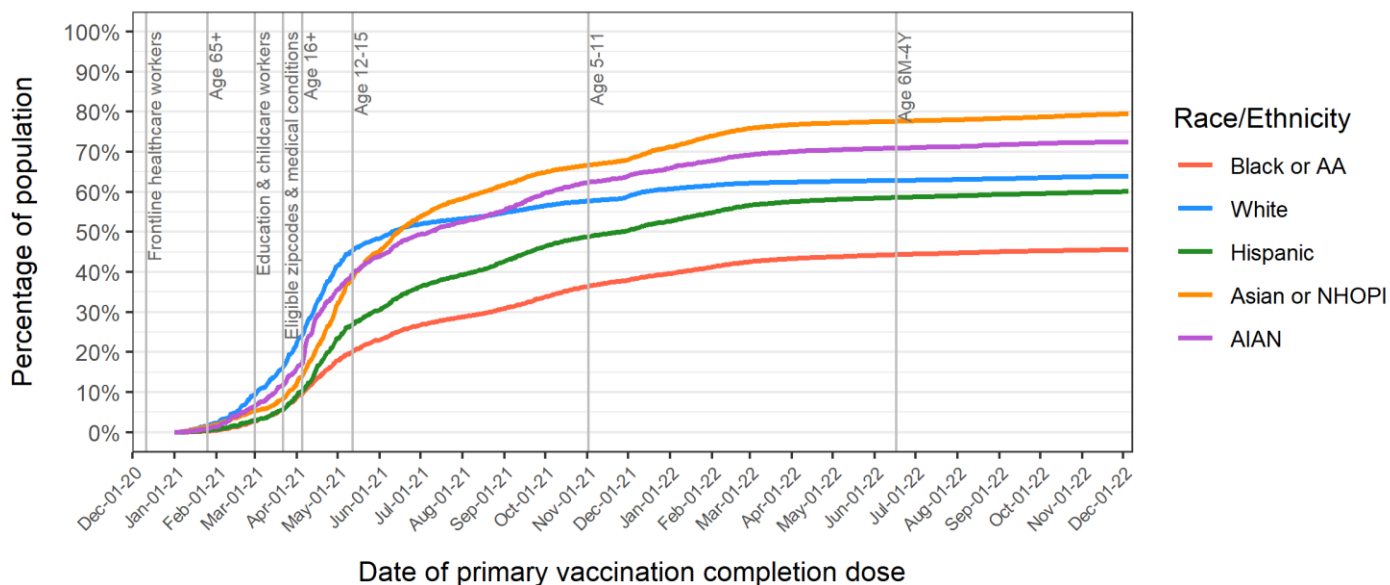
Figure 5 shows the percentage over time of Milwaukee County residents who received at least one dose of any COVID-19 vaccine by race/ethnicity group. **Figure 6** shows the percentage over time of Milwaukee County residents who are completely vaccinated with any COVID-19 vaccine by race/ethnicity group. 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)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

Figure 6: Percent of Milwaukee Co. residents completely vaccinated with any COVID-19 vaccine



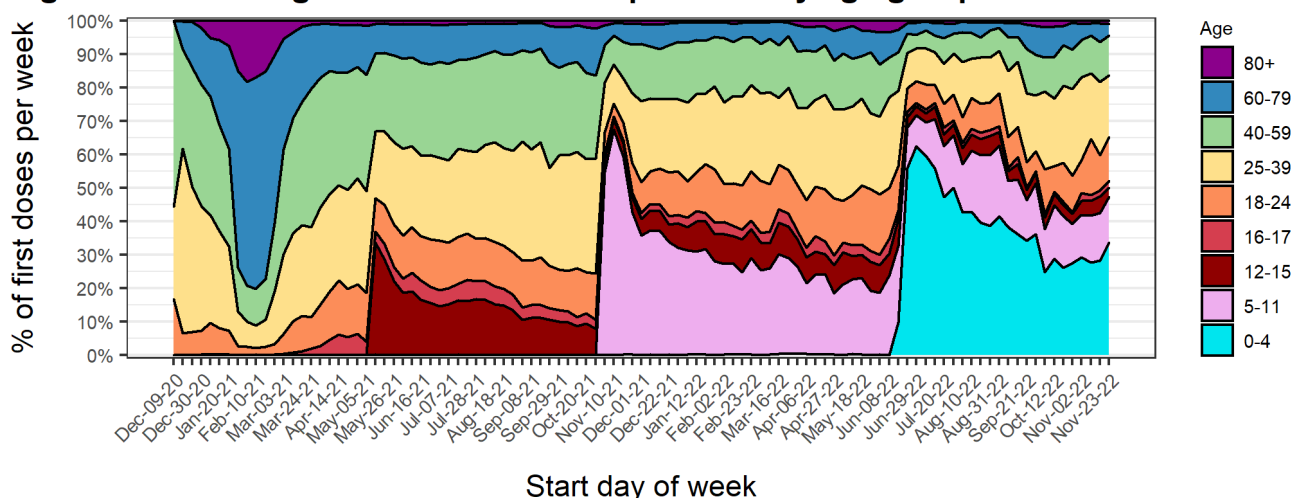
Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

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.

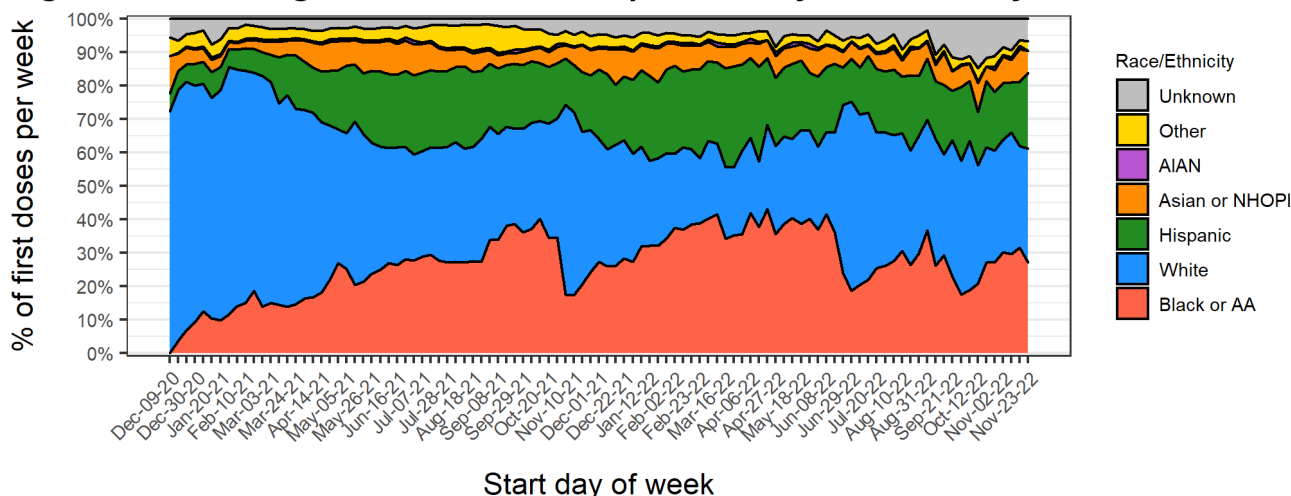
Figure 8 shows the percentage of first doses of COVID-19 vaccine administered per week to Milwaukee County residents by race/ethnicity. Non-Hispanic Whites were the majority of newly vaccinated individuals for many months, however Black/AA and Hispanic groups have become an increasing proportion of the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



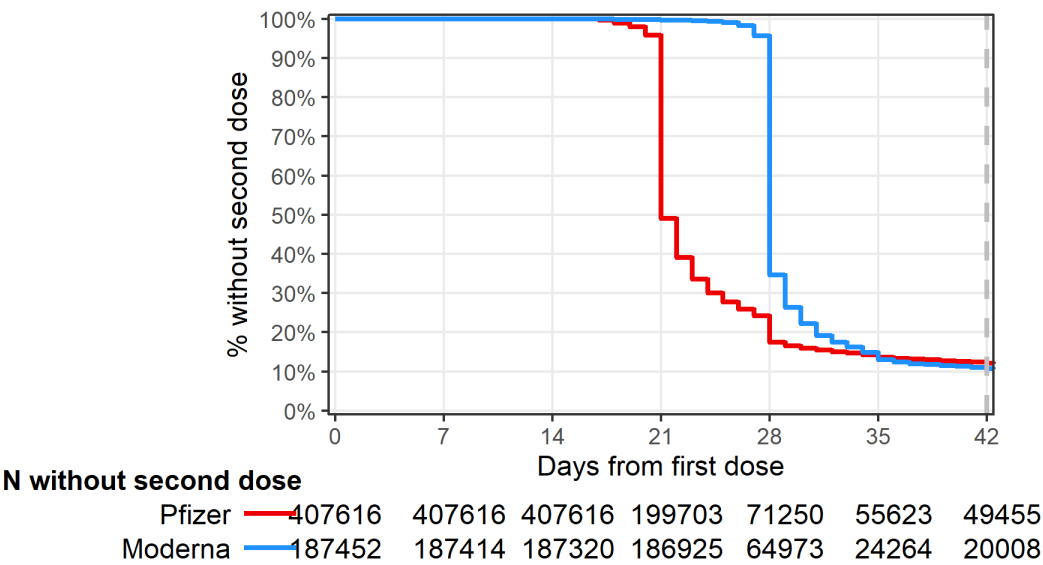
Data source: Wisconsin Immunization Registry (WIR)
Created by the Milwaukee County COVID-19 Epidemiology Intel Team

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 October 23, 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 88.3% of all residents who received their first dose of Pfizer prior to October 23, 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	358,161 / 407,616 (87.9%)	211,423 / 370,143 (57.1%)
Moderna	167,444 / 187,452 (89.3%)	115,517 / 172,875 (66.8%)
Johnson & Johnson		16,604 / 34,696 (47.9%)
Age		
0-4	4,615 / 6,485 (71.2%)	
5-11	25,138 / 31,455 (79.9%)	6,626 / 26,218 (25.3%)
12-15	26,429 / 30,325 (87.2%)	11,568 / 27,714 (41.7%)
16-17	13,227 / 15,101 (87.6%)	6,214 / 13,926 (44.6%)
18-24	48,298 / 58,318 (82.8%)	22,884 / 55,518 (41.2%)
25-39	123,886 / 143,242 (86.5%)	70,304 / 139,842 (50.3%)
40-59	144,238 / 159,942 (90.2%)	101,647 / 163,930 (62.0%)
60-79	119,189 / 127,996 (93.1%)	105,303 / 128,764 (81.8%)
80+	20,585 / 22,204 (92.7%)	18,998 / 21,802 (87.1%)
Sex		
Female	282,301 / 318,307 (88.7%)	188,044 / 306,903 (61.3%)
Male	242,197 / 275,322 (88.0%)	154,938 / 269,577 (57.5%)
Unknown	1,107 / 1,439 (76.9%)	562 / 1,234 (45.5%)
Race/Ethnicity		
Black or AA	96,952 / 117,662 (82.4%)	55,251 / 110,871 (49.8%)
White	287,708 / 311,853 (92.3%)	213,483 / 310,634 (68.7%)
Hispanic	73,450 / 86,592 (84.8%)	38,698 / 82,633 (46.8%)
Asian or NHOPI	29,660 / 33,795 (87.8%)	16,211 / 31,597 (51.3%)
AIAN	2,985 / 3,399 (87.8%)	1,881 / 3,306 (56.9%)
Other	19,957 / 22,830 (87.4%)	11,155 / 21,829 (51.1%)
Unknown	14,893 / 18,937 (78.6%)	6,865 / 16,844 (40.8%)

¹n / N (%)

*Booster eligible population is aged 5+ with complete primary vaccination prior to July 8, 2022 for Pfizer or Moderna series, or prior to October 6, 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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