Milwaukee County COVID-19 vaccine data summary

Milwaukee County COVID-19 Epidemiology Intel Team

This report was updated on August 11, 2022 and includes data through August 8, 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 (second dose following Johnson & Johnson primary vaccination or third dose following Pfizer or Moderna primary vaccination series).

Milwaukee County COVID-19 Vaccination Total December 15, 2020 - August 8, 2022	als		
	Milwaukee County	City of Milwaukee	Suburbs
Total primary vaccine doses administered	1,166,306	666,890	499,416
Pfizer	715,947	432,453	283,494
Pfizer Age 5-11	56,527	29,369	27,158
Moderna	359,148	184,300	174,848
Johnson & Johnson	34,684	20,768	13,916
Total vaccine doses administered (including boosters)	1,491,452	835,214	656,238
Pfizer	917,070	543,890	373,180
Pfizer Age 5-11	59,143	30,394	28,749
Moderna	477,793	238,696	239,097
Johnson & Johnson	37,446	22,234	15,212
*Total individuals with one or more doses	620,231	357,700	262,531
Pfizer	370,230	225,160	145,070
Pfizer Age 5-11	30,178	16,092	14,086
Moderna	185,210	95,730	89,480
Johnson & Johnson	34,613	20,718	13,895
*Total individuals completely vaccinated	580,688	329,908	250,780
Pfizer	345,301	206,907	138,394
Pfizer Age 5-11	26,587	13,417	13,170
Moderna	174,187	88,866	85,321
Johnson & Johnson	34,613	20,718	13,895
*Total individuals boosted	325,146	168,324	156,822
Pfizer	194,500	105,290	89,210
Pfizer Age 5-11	2,985	1,179	1,806
Moderna	111,788	52,832	58,956
Johnson & Johnson	15,873	9,023	6,850
*Individuals are grouped by the first vaccine produc product for their second dose in a series	ct received. Note a small nu	mber of people received a differe	ent vaccine

Percentage of Population Vaccinated December 15, 2020 - August 8, 2022				
	Overall	Ages 5+	Ages 12+	Ages 16+
Milwaukee County				
*Population	954,209	887,487	796,322	747,409
Received one or more doses	65.0%	69.9%	74.1%	74.9%
Completely vaccinated	60.9%	65.4%	69.6%	70.4%
City of Milwaukee				
*Population	596,886	551,401	489,445	456,809
Received one or more doses	59.9%	64.9%	69.8%	70.9%
Completely vaccinated	55.3%	59.8%	64.6%	65.8%
Milwaukee County Suburbs				
*Population	357,323	336,086	306,877	290,600
Received one or more doses	73.5%	78.1%	80.9%	81.2%
Completely vaccinated	70.2%	74.6%	77.4%	77.7%
*Population estimates from 2018 US Cer	nsus American Com	munity Survey		

Percentage of Population Boo	osted
December 15, 2020 - August	8, 2022

	Overall	**Booster eligible
Milwaukee County		
*Population	954,209	544,790
Received booster dose	34.1%	59.1%
City of Milwaukee		
*Population	596,886	309,689
Received booster dose	28.2%	54.0%
Milwaukee County Suburbs		
*Population	357,323	235,101
Received booster dose	43.9%	65.9%
*0		0

^{*}Overall population estimates from 2018 US Census American Community Survey **Booster eligible population is aged 12+ with complete primary vaccination prior to March 11, 2022 for Pfizer or Moderna series, or prior to June 9, 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 1,491,452 doses (including boosters) have been administered from December 15, 2020 through August 8, 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 or second dose of Pfizer or Moderna). The orange color indicates a booster dose (second dose following Johnson & Johnson or third dose following Pfizer or Moderna series).

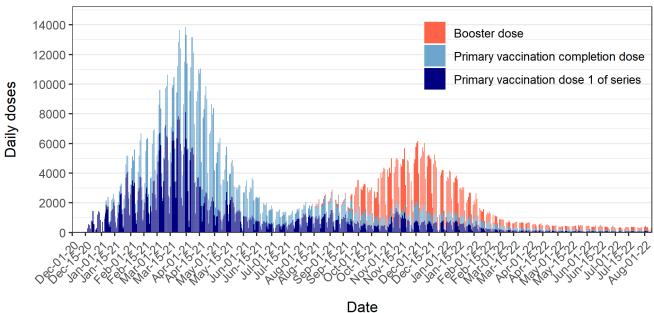


Figure 1: Daily COVID-19 vaccine doses administered to Milwaukee Co. residents

Figure 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.

14000 — 7-day average

12000 — Pfizer

10000 — Pfizer Age 5-11

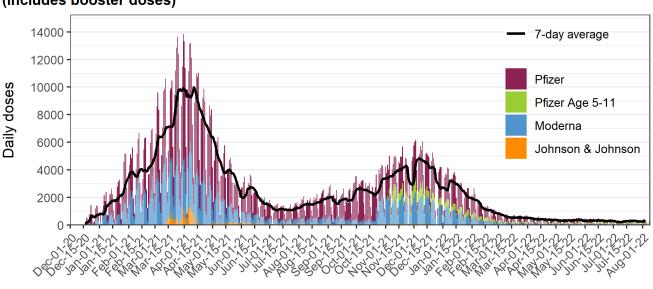
Moderna

Johnson & Johnson

Date

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



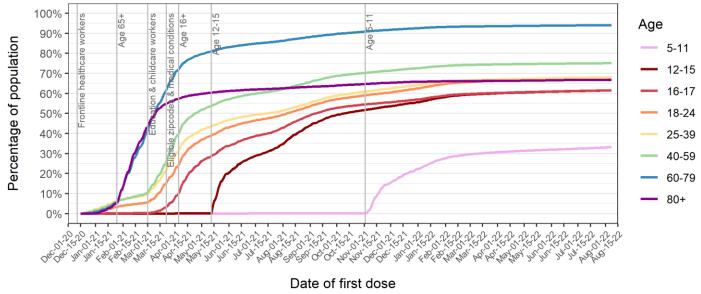
Date

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

Percentages of Milwaukee County residents partially and completely vaccinated by age group

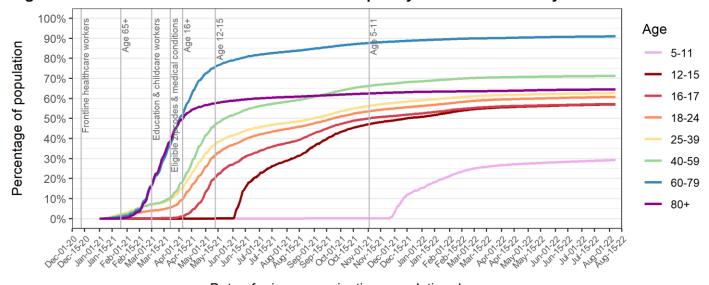
Figure 3 shows the percentage over time of Milwaukee County residents who received at least one dose of any COVID-19 vaccine by age group. **Figure 4** shows the percentage over time of Milwaukee County residents who are completely vaccinated with any COVID-19 vaccine by age group. The vertical lines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



Date of primary vaccination completion dose

Proportions 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.

Education & childcare workers medical conditions 90% Age (Percentage of population 80% Race/Ethnicity 70% Black or AA 60% White 50% Hispanic 40% Asian or NHOPI 30% **AIAN** 20% 10% 2, v, 0, v,

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

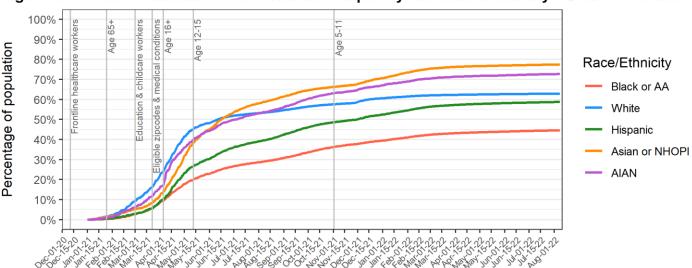


Figure 6: Percent of Milwaukee Co. residents completely vaccinated with any COVID-19 vaccine

Date of first dose

Date of primary vaccination completion dose

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

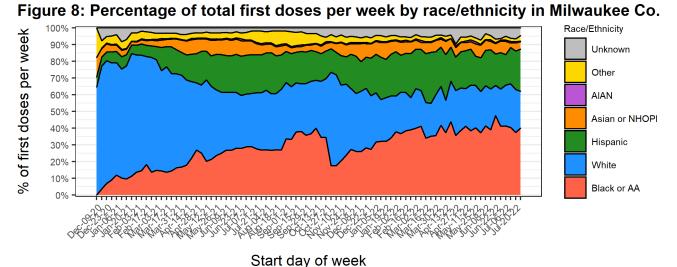
Figure 7 shows the percentage of first doses of COVID-19 vaccine administered per week to Milwaukee County residents by age group. After vaccines first became available to healthcare personnel, middleaged groups (25-59) were the majority of new vaccinees. After eligibility opened up to ages 65+, the 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. A similar increase was observed with the new eligibility of children ages 5-11.

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. of first doses per week 80+ 90% 60-79 80% 70% 40-59 60% 25-39 40% 18-24 30% 16-17 12-15 5-11

Start day of week Data source: Wisconsin Immunization Registry (WIR)

Created by the Milwaukee County COVID-19 Epidemiology Intel Team

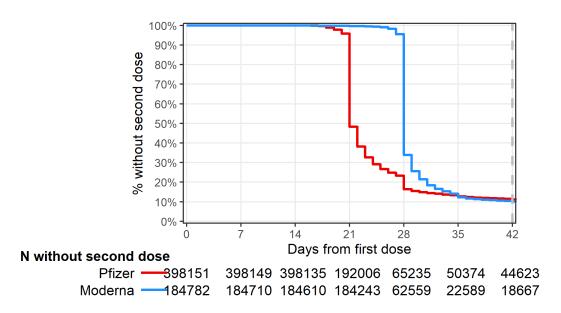


Completion of primary immunization series among Milwaukee County residents who received at least one dose of Pfizer or Moderna vaccines

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 June 26, 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 89.1% of all residents who received their first dose of Pfizer prior to June 26, 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



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 receipients ¹	*Percent boosted among eligible ¹
First vaccine received		
Pfizer	353,466 / 398,081 (88.8%)	194,428 / 338,370 (57.5%)
Moderna	166,115 / 184,779 (89.9%)	111,772 / 171,899 (65.0%)
Johnson & Johnson		15,873 / 34,521 (46.0%)
Age		
5-11	24,130 / 29,473 (81.9%)	
12-15	26,303 / 29,891 (88.0%)	9,882 / 26,901 (36.7%)
16-17	13,066 / 14,857 (87.9%)	5,612 / 13,505 (41.6%)
18-24	47,307 / 56,604 (83.6%)	20,815 / 53,510 (38.9%)
25-39	123,184 / 141,247 (87.2%)	66,625 / 137,335 (48.5%)
40-59	144,175 / 159,285 (90.5%)	97,249 / 162,535 (59.8%)
60-79	119,979 / 128,470 (93.4%)	102,747 / 128,549 (79.9%)
80+	21,437 / 23,033 (93.1%)	19,143 / 22,455 (85.3%)
Sex		
Female	279,259 / 311,953 (89.5%)	176,403 / 290,188 (60.8%)
Male	239,141 / 269,423 (88.8%)	145,088 / 253,306 (57.3%)
Unknown	1,181 / 1,484 (79.6%)	582 / 1,296 (44.9%)
Race/Ethnicity		
Black or AA	95,167 / 113,953 (83.5%)	50,254 / 102,962 (48.8%)
White	283,313 / 305,178 (92.8%)	202,170 / 295,085 (68.5%)
Hispanic	71,907 / 83,878 (85.7%)	34,502 / 75,565 (45.7%)
Asian or NHOPI	29,038 / 32,795 (88.5%)	14,848 / 28,637 (51.8%)
AIAN	3,003 / 3,408 (88.1%)	1,769 / 3,182 (55.6%)
Other	21,349 / 24,203 (88.2%)	11,351 / 22,187 (51.2%)
Unknown	15,804 / 19,445 (81.3%)	7,179 / 17,172 (41.8%)

¹n / N (%)

^{*}Booster eligible population is aged 12+ with complete primary vaccination prior to March 11, 2022 for Pfizer or Moderna series, or prior to June 9, 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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