Milwaukee County COVID-19 vaccine data summary

Milwaukee County COVID-19 Epidemiology Intel Team

This report was updated on July 28, 2022 and includes data through July 25, 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	City of Milwaukee	Suburb
Total primary vaccine doses administered	1,164,806	665,746	499,06
Pfizer	715,096	431,761	283,33
Pfizer Age 5-11	55,970	29,016	26,95
Moderna	359,062	184,212	174,85
Johnson & Johnson	34,611	20,716	13,89
Total vaccine doses administered (including boosters)	1,485,658	831,910	653,74
Pfizer	914,851	542,220	372,63
Pfizer Age 5-11	55,970	29,016	26,9
Moderna	477,303	238,390	238,9
Johnson & Johnson	37,317	22,136	15,1
*Total individuals with one or more doses	619,500	357,095	262,40
Pfizer	369,799	224,777	145,0
Pfizer Age 5-11	29,907	15,910	13,9
Moderna	185,153	95,673	89,4
Johnson & Johnson	34,611	20,716	13,8
*Total individuals completely vaccinated	579,917	329,367	250,5
Pfizer	344,893	206,600	138,2
Pfizer Age 5-11	26,299	13,253	13,04
Moderna	174,114	88,798	85,3
Johnson & Johnson	34,611	20,716	13,8
*Total individuals boosted	320,852	166,164	154,68
Pfizer	193,428	104,540	88,88
Pfizer Age 5-11	310	127	18
Moderna	111,358	52,576	58,7
Johnson & Johnson *Individuals are grouped by the first vaccine produc	15,756	8,921	6,83

Percentage of Population Vaccinated December 15, 2020 - July 25, 2022				
	Overall	Ages 5+	Ages 12+	Ages 16+
Milwaukee County				
*Population	954,209	887,487	796,322	747,409
Received one or more doses	64.9%	69.8%	74.0%	74.9%
Completely vaccinated	60.8%	65.3%	69.5%	70.3%
City of Milwaukee				
*Population	596,886	551,401	489,445	456,809
Received one or more doses	59.8%	64.8%	69.7%	70.8%
Completely vaccinated	55.2%	59.7%	64.6%	65.7%
Milwaukee County Suburbs				
*Population	357,323	336,086	306,877	290,600
Received one or more doses	73.4%	78.1%	80.9%	81.2%
Completely vaccinated	70.1%	74.5%	77.4%	77.6%
*Population estimates from 2018 US Ce	ensus American Com	munity Survey		

Percentage of Population Boosted
December 15, 2020 - July 25, 2022

	Overall	**Booster eligible
Milwaukee County		
*Population	954,209	542,911
Received booster dose	33.6%	59.0%
City of Milwaukee		
*Population	596,886	308,193
Received booster dose	27.8%	53.9%
Milwaukee County Suburbs		
*Population	357,323	234,718
Received booster dose	43.3%	65.8%

^{*}Overall population estimates from 2018 US Census American Community Survey **Booster eligible population is aged 12+ with complete primary vaccination prior to February 25, 2022 for Pfizer or Moderna series, or prior to May 26, 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 1,485,658 doses (including boosters) have been administered from December 15, 2020 through July 25, 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).

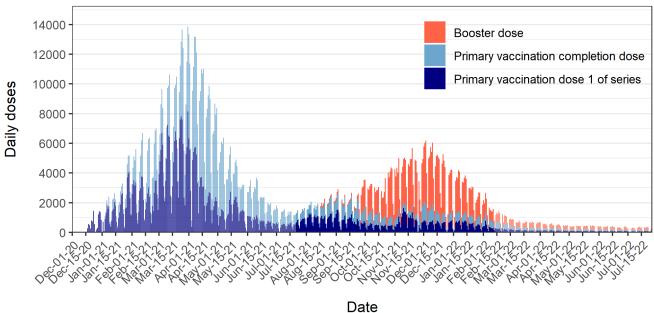


Figure 1: Daily COVID-19 vaccine doses administered to Milwaukee Co. residents

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

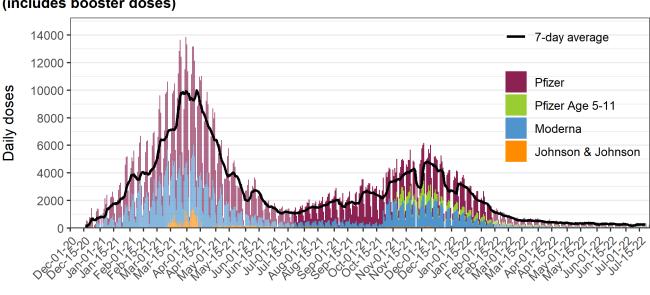
Moderna

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.

conditions Age 65+ childcare workers Age 90% Percentage of population 5-11 80% 12-15 70% 16-17 60% 50% 18-24 40% 25-39 30% 40-59 20% 60-79 10% **80+**

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

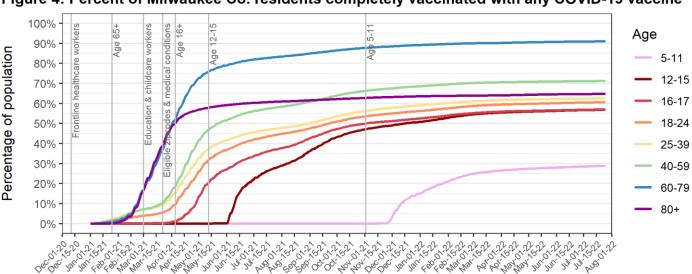


Figure 4: Percent of Milwaukee Co. residents completely vaccinated with any COVID-19 vaccine

Date of first dose

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.

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

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

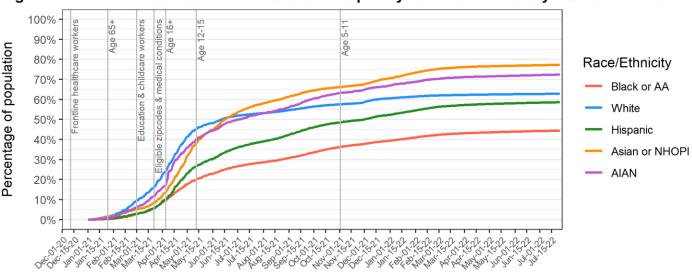


Figure 6: Percent of Milwaukee Co. residents completely vaccinated with any COVID-19 vaccine

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

Race/Ethnicity of first doses per week 90% Unknown 80% Other 70% 60% AIAN Asian or NHOPI Hispanic 30% 20% White 10% Black or AA

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

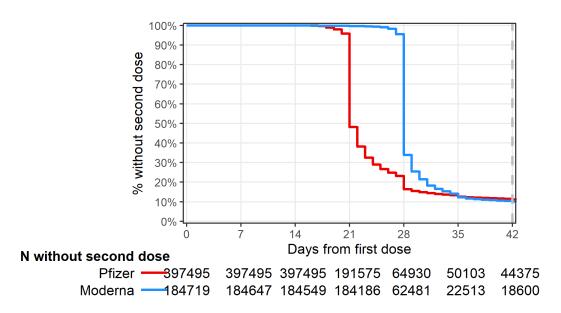
Start day of week

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 12, 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 89.2% of all residents who received their first dose of Pfizer prior to June 12, 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	353,064 / 397,433 (88.8%)	193,366 / 336,891 (57.4%)
Moderna	166,119 / 184,719 (89.9%)	111,342 / 171,495 (64.9%)
Johnson & Johnson		15,756 / 34,525 (45.6%)
Age		
5-11	23,889 / 29,172 (81.9%)	
12-15	26,228 / 29,812 (88.0%)	9,621 / 26,615 (36.1%)
16-17	13,029 / 14,824 (87.9%)	5,493 / 13,385 (41.0%)
18-24	47,228 / 56,460 (83.6%)	20,644 / 53,148 (38.8%)
25-39	123,088 / 141,044 (87.3%)	66,288 / 136,615 (48.5%)
40-59	144,153 / 159,229 (90.5%)	96,760 / 162,086 (59.7%)
60-79	120,044 / 128,506 (93.4%)	102,494 / 128,520 (79.7%)
80+	21,524 / 23,105 (93.2%)	19,164 / 22,542 (85.0%)
Sex		
Female	279,046 / 311,554 (89.6%)	175,505 / 289,065 (60.7%)
Male	238,957 / 269,115 (88.8%)	144,380 / 252,552 (57.2%)
Unknown	1,180 / 1,483 (79.6%)	579 / 1,294 (44.7%)
Race/Ethnicity		
Black or AA	94,966 / 113,543 (83.6%)	49,782 / 102,027 (48.8%)
White	283,120 / 304,977 (92.8%)	201,535 / 294,613 (68.4%)
Hispanic	71,739 / 83,646 (85.8%)	34,071 / 75,085 (45.4%)
Asian or NHOPI	28,984 / 32,713 (88.6%)	14,734 / 28,510 (51.7%)
AIAN	2,996 / 3,395 (88.2%)	1,750 / 3,168 (55.2%)
Other	21,499 / 24,367 (88.2%)	11,391 / 22,297 (51.1%)
Unknown	15,879 / 19,511 (81.4%)	7,201 / 17,211 (41.8%)

¹n / N (%)

^{*}Booster eligible population is aged 12+ with complete primary vaccination prior to February 25, 2022 for Pfizer or Moderna series, or prior to May 26, 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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