Milwaukee County COVID-19 vaccine data summary

Milwaukee County COVID-19 Epidemiology Intel Team

This report was updated on January 12, 2022 and includes data through January 10, 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 - January 10, 2022	als		
	Milwaukee County	City of Milwaukee	Suburbs
Total primary vaccine doses administered	1,104,890	621,476	483,414
Pfizer	679,636	405,083	274,553
Pfizer Age 5-11	35,947	15,628	20,319
Moderna	355,185	180,401	174,784
Johnson & Johnson	34,097	20,350	13,747
Total vaccine doses administered	1,342,068	736,200	605,868
(including boosters) Pfizer	818,806	477,207	341,599
Pfizer Age 5-11	35,947	15,628	20,319
Moderna	450,843	221,815	229,028
Johnson & Johnson	36,425	21,524	14,901
Johnson & Johnson	30,423	21,324	14,901
*Total individuals with one or more doses	592,309	336,136	256,173
Pfizer	353,082	211,935	141,147
Pfizer Age 5-11	21,208	9,794	11,414
Moderna	183,907	94,050	89,857
Johnson & Johnson	34,097	20,350	13,747
*Total individuals completely vaccinated	546,678	305,690	240,988
Pfizer	326,446	193,047	133,399
Pfizer Age 5-11	14,826	5,872	8,954
Moderna	171,309	86,421	84,888
Johnson & Johnson	34,097	20,350	13,747
*Total individuals boosted	237,178	114,724	122,454
Pfizer	137,527	· ·	•
Pfizer Age 5-11	,	69,994 0	67,533
Moderna	0		40.735
Johnson & Johnson	88,910	39,175	49,735
*Individuals are grouped by the first vaccine product product for their second dose in a series	10,741 ct received. Note a small nu	5,555 mber of people received a differ	5,186 ent vaccine

Percentage of Population Vaccinated December 15, 2020 - January 10, 2022				
	Overall	Ages 5+	Ages 12+	Ages 16+
Milwaukee County				
*Population	954,209	887,487	796,322	747,409
Received one or more doses	62.1%	66.7%	71.7%	72.7%
Completely vaccinated	57.3%	61.6%	66.8%	67.8%
City of Milwaukee				
*Population	596,886	551,401	489,445	456,809
Received one or more doses	56.3%	61.0%	66.7%	68.0%
Completely vaccinated	51.2%	55.4%	61.3%	62.6%
Milwaukee County Suburbs				
*Population	357,323	336,086	306,877	290,600
Received one or more doses	71.7%	76.2%	79.7%	80.2%
Completely vaccinated	67.4%	71.7%	75.6%	76.0%
*Population estimates from 2018 US Cens	sus American Com	nmunity Survey		

Percentage of Population Boosted December 15, 2020 - January 10, 2022		
	Overall	**Booster eligible
Milwaukee County		
*Population	954,209	458,816
Received booster dose	24.9%	51.6%
City of Milwaukee		
*Population	596,886	249,822
Received booster dose	19.2%	45.8%
Milwaukee County Suburbs		
*Population	357,323	208,994
Received booster dose	34.3%	58.6%
*Overall population estimates from 2018 U **Booster eligible population is aged 12+ v August 13, 2021 for Pfizer or Moderna seri Johnson & Johnson	vith complete prima	ry vaccination prior to

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 1,342,068 doses (including boosters) have been administered from December 15, 2020 through January 10, 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).

Booster dose
Primary vaccination completion dose
Primary vaccination dose 1 of series

8000
4000
2000

Date

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

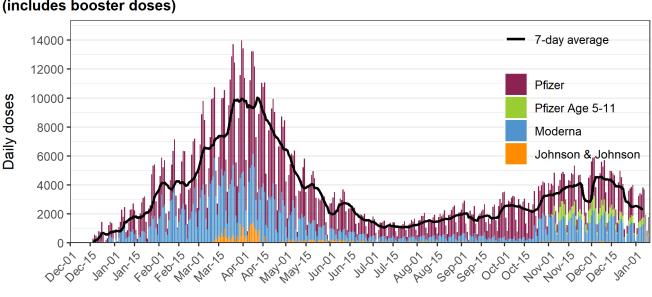
Johnson & Johnson

2000 — 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)

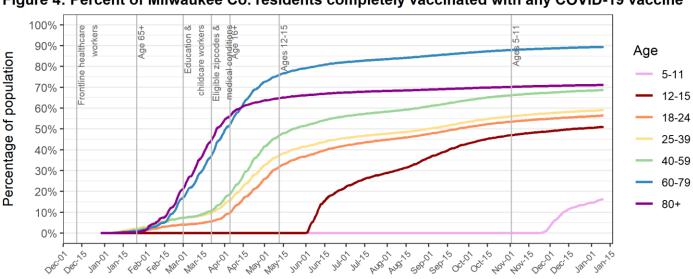
Percentages of Milwaukee County residents partially and completely vaccinated by age group

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.

100% Education & childcare workers zipcodes & 90% Age Percentage of population 80% **5-11** 70% 12-15 60% 18-24 50% 25-39 40% 40-59 30% 60-79 20% +08 10% 480.15 May AUSTS Mayor Date of first dose

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



Date of primary vaccination completion dose

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

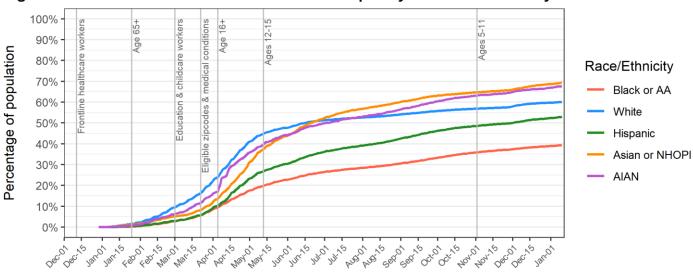
Proportions of Milwaukee County residents partially and completely vaccinated by race/ethnicity group

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.

100% Education & childcare workers medical conditions 90% \ge Percentage of population 80% Race/Ethnicity 70% Black or AA 60% zipcodes & White 50% Hispanic 40% Asian or NHOPI 30% AIAN 20% 10% Mayor Date of first dose

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



Date of primary vaccination completion dose

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

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% 80% 60-79 70% 40-59 60% 25-39 50% 40% 18-24 30% 16-17 20% 12-15 10% 5-11 widi Mar 07.30 OA-AUG Sq box box box 100 year on 123 no

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 AIAN Asian or NHOPI Hispanic White Black or AA & Color Colo

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

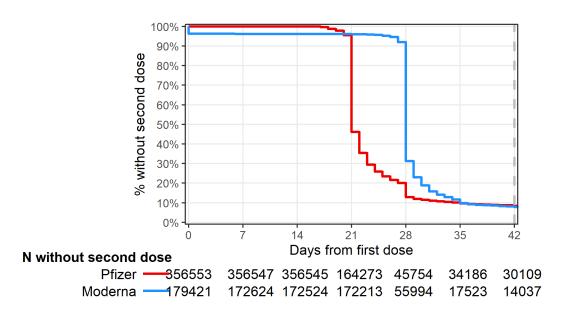
Start day of week

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 November 28, 2021). 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 91.8% of all residents who received their first dose of Pfizer prior to November 28, 2021 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	326,435 / 356,544 (91.6%)	137,307 / 270,295 (50.8%)
Moderna	165,384 / 179,421 (92.2%)	88,831 / 155,645 (57.1%)
Johnson & Johnson		10,741 / 32,876 (32.7%)
Age		
5-11	11,928 / 13,143 (90.8%)	
12-15	23,788 / 26,139 (91.0%)	678 / 15,254 (4.4%)
16-17	12,177 / 13,455 (90.5%)	2,545 / 9,498 (26.8%)
18-24	44,460 / 50,498 (88.0%)	12,438 / 41,921 (29.7%)
25-39	117,028 / 129,565 (90.3%)	48,111 / 109,745 (43.8%)
40-59	139,767 / 151,413 (92.3%)	71,043 / 137,853 (51.5%)
60-79	118,797 / 126,187 (94.1%)	84,839 / 120,365 (70.5%)
80+	23,874 / 25,565 (93.4%)	17,225 / 24,180 (71.2%)
Sex		
Female	266,280 / 288,906 (92.2%)	131,527 / 245,440 (53.6%)
Male	224,490 / 245,793 (91.3%)	105,047 / 212,281 (49.5%)
Unknown	1,049 / 1,266 (82.9%)	305 / 1,095 (27.9%)
Race/Ethnicity		
Black or AA	84,776 / 96,788 (87.6%)	30,755 / 73,459 (41.9%)
White	271,229 / 288,042 (94.2%)	159,795 / 263,631 (60.6%)
Hispanic	64,797 / 72,521 (89.3%)	19,142 / 56,970 (33.6%)
Asian or NHOPI	26,041 / 28,248 (92.2%)	8,992 / 23,642 (38.0%)
AIAN	2,787 / 3,094 (90.1%)	1,217 / 2,558 (47.6%)
Other	26,558 / 29,354 (90.5%)	12,322 / 22,508 (54.7%)
Unknown	15,631 / 17,918 (87.2%)	4,656 / 16,048 (29.0%)

¹n / N (%)

^{*}Booster eligible population is aged 12+ with complete primary vaccination prior to August 13, 2021 for Pfizer or Moderna series, or prior to November 11, 2021 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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