

Breakthrough Case Information — compiled 08/25/2021

NATIONAL DATA

On a national level, the US Centers for Disease Control and Protection (CDC) only monitors hospitalizations and deaths, from **any** cause, among fully vaccinated individuals with COVID-19, but not breakthrough infections, which it stopped monitoring May 1, 2021. Not all state health departments are reporting breakthrough case data, making it difficult to get a clear national picture of the current situation.

The Kaiser Family Foundation published (July 30, 2021) an analysis of available state breakthrough case data from 24 states. This analysis found that almost all (more than 9 in 10) COVID-19 cases, hospitalizations, and deaths have occurred among people who are not vaccinated. *Displayed in the figure to the right.*

The full report can be viewed at <https://www.kff.org/policy-watch/covid-19-vaccine-breakthrough-cases-data-from-the-states/>

Figure 2

Share of Overall COVID-19 Cases by Those Fully Vaccinated v. Those Not Fully Vaccinated Among Reporting States

Cases Hospitalizations Deaths

State	Share of Overall Cases Among Fully Vaccinated	Share of Overall Cases Among Not Fully Vaccinated*
Alaska	4.0%	96.0%
Arizona	5.9%	94.1%
Arkansas	3.6%	96.4%
California	1.4%	98.6%
Connecticut	0.2%	99.9%
Delaware	1.0%	99.0%
District of Columbia	1.3%	98.7%
Idaho	1.2%	98.8%
Indiana	1.1%	98.9%
Maine	1.3%	98.7%
Massachusetts	1.0%	99.0%
Michigan	1.6%	98.4%
Montana	3.2%	96.8%
Nebraska	0.4%	99.6%
New Jersey	0.2%	99.8%
New Mexico	1.2%	98.9%
Oklahoma	0.8%	99.2%
Oregon	1.9%	98.1%
Rhode Island	1.7%	98.3%
Tennessee	0.4%	99.7%
Utah	3.2%	96.8%
Vermont	1.6%	98.4%
Virginia	0.7%	99.3%
Washington	2.0%	98.0%

NOTE: *Those not fully vaccinated includes those who are unvaccinated, not yet fully vaccinated, or where vaccination status is unknown. Only states that have collected data on breakthrough COVID-19 cases for more than a month have been included.

SOURCE: KFF Analysis of State Level Data; Johns Hopkins University



STATE DATA

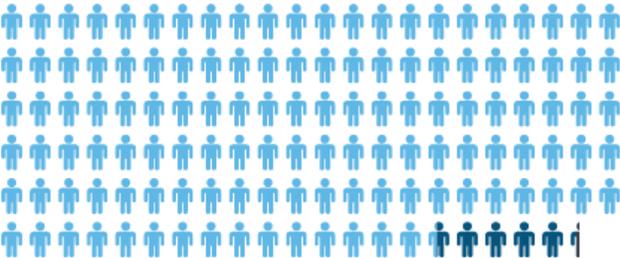
The Wisconsin Department of Health Services (DHS) has started releasing monthly breakthrough case data with the intention of updating it on the 15th of every month. The following charts represent data for cases with an onset through July 2021. This data is available on the DHS website at <https://www.dhs.wisconsin.gov/covid-19/vaccine-status.htm>

July 2021: COVID-19 Cases, Hospitalizations, and Deaths Among Fully Vaccinated and Not Fully Vaccinated People

Last Updated: 8/18/2021

Fully Vaccinated

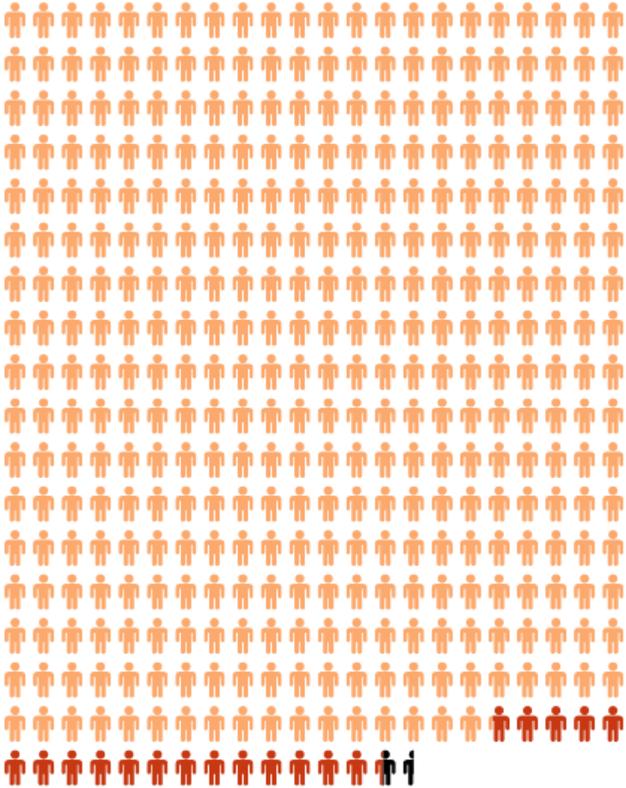
Per 100,000 Fully Vaccinated People



● 125.4 Cases ● 4.9 Hospitalizations ● 0.1 Deaths

Not Fully Vaccinated

Per 100,000 Not Fully Vaccinated People



● 369.2 Cases ● 18.2 Hospitalizations ● 1.1 Deaths

STATE DATA

Rate of confirmed and probable cases per 100,000 fully vaccinated or not fully vaccinated people

Last updated: 8/18/2021

Month*	Percent of people who completed the vaccine series by the first of the month	Confirmed and probable COVID-19 case rate per 100,000 fully vaccinated people	Confirmed and probable COVID-19 case rate per 100,000 not fully vaccinated people
February	1.9%	56.6	385.8
March	8.9%	41.1	382.5
April	19.8%	53.6	505.3
May	35.4%	27.1	296.9
June	43.4%	14.4	82.8
July	47.4%	125.4	369.2

*Month of symptom onset or positive specimen collection.

The rate of cases in fully vaccinated individuals increased in July, corresponding with the more infectious Delta variant becoming the dominant strain and the start of the current surge of COVID-19 cases. The rate of cases in unvaccinated/not fully vaccinated individuals was nearly three times (3x) as high as in fully vaccinated individuals.

STATE DATA

Rate of COVID-19 associated hospitalizations per 100,000 fully vaccinated or not fully vaccinated people

Last updated: 8/18/2021

Month*	Percent of people who completed the vaccine series by the first of the month	COVID-19 hospitalization rate per 100,000 fully vaccinated people	COVID-19 hospitalization rate per 100,000 not fully vaccinated people
February	1.9%	1.8	18.8
March	8.9%	3.5	15.4
April	19.8%	5.6	21.9
May	35.4%	3.7	18.8
June	43.4%	1.6	6.4
July	47.4%	4.9	18.2

*Month of symptom onset or positive specimen collection.

Unvaccinated individuals were 3.7 times more likely to be hospitalized than fully vaccinated individuals in July.

Unvaccinated individuals were 11 times more likely to die than fully vaccinated individuals in July.

Rate of COVID-19 associated deaths per 100,000 fully vaccinated or not fully vaccinated people

Last updated: 8/18/2021

Month*	Percent of people who completed the vaccine series by the first of the month	COVID-19 death rate per 100,000 fully vaccinated people	COVID-19 death rate per 100,000 not fully vaccinated people
February	1.9%	0.0	6.7
March	8.9%	0.6	3.0
April	19.8%	1.0	3.0
May	35.4%	0.7	3.4
June	43.4%	0.2	1.4
July	47.4%	0.1	1.1

*Month of symptom onset or positive specimen collection.

LOCAL DATA

Washburn County has a low number of breakthrough cases. As such, some data markers cannot be reported by the number of cases and will instead be reported as percentages in order to guarantee patient privacy. All data is for the range starting January 1, 2021 through August 25, 2021 (01/01/21-08/25/21).

	Number	Percent
Fully Vaccinated Individuals as of 8/25/21	8,508	54.1%
Not Fully Vaccinated Individuals as of 8/25/21	7,212	45.9%
Total Cases 1/1/21-8/25/21	564	—
Cases in Fully Vaccinated Individuals	15	2.7%
Cases in Not Fully Vaccinated Individuals	549	97.3%
Hospitalizations in NOT Fully Vaccinated/ Unvaccinated Individuals	—	97.8%
Deaths in NOT Fully Vaccinated Individuals/ Unvaccinated Individuals	—	100%

Data from Washburn County cases demonstrates that the overwhelming majority of cases, hospitalizations, and deaths have occurred in not fully vaccinated/unvaccinated individuals. These findings are consistent with the available national analysis presented on page one and DHS data on pages two through four that affirm vaccine efficacy for preventing serious illness, hospitalization, and death. No vaccine is 100 percent effective, and as such we expect to see a small share of fully vaccinated people test positive for COVID-19. Breakthrough cases typically report mild illness or no symptoms, reflected in the data above.