

# New Mexico COVID-19 Vaccinated and Unvaccinated Case Data Report

Unless stated otherwise, all data reported here exclude cases who are from out-of-state and cases who are detainees in Federal Immigration and Customs Enforcement (ICE) facilities.

## COVID-19 Case Data by Vaccination Status

February 14, 2022

Vaccination is the most powerful tool available today for preventing infection and severe illness and death due to COVID-19. In this report, we display case data by vaccination status to show the impact of vaccination status on the occurrence and severity of COVID-19 cases affecting New Mexico residents.

We are monitoring case counts and rates (the number of cases per standard population size) by the following categories:

- **Not Fully Vaccinated:** this category includes cases, hospitalizations, and deaths in persons who have not completed a primary series vaccination for COVID-19. This category includes persons who have had no vaccinations, persons who have had only a single vaccination with an mRNA vaccine (Pfizer or Moderna), and persons who completed the primary series less than 14 days before they tested positive for SARS-CoV-2.
- **Fully Vaccinated Without Booster:** this category includes cases, hospitalizations, and deaths in person who have completed a primary vaccination series 14 or more days prior to testing positive for SARS-CoV-2 (2 doses of the Pfizer or Moderna vaccine or a single dose of the Johnson & Johnson vaccine) but have not had an additional or booster dose of any vaccine.
- **Fully Vaccinated With Booster:** this category includes cases, hospitalizations, and deaths in person who have completed a primary vaccination series AND have completed an additional dose or a booster dose 14 or more days before they tested positive for SARS-CoV-2

We are monitoring the risk of infection based on the case, hospitalization, and death rate relative to the NM population in each of the categories not fully vaccinated, fully vaccinated without booster, and fully vaccinated with booster according to the follow formula:

$$\text{sum} \left( \frac{\text{Number with COVID – 19 in the category each day}}{\text{Number of NM residents in the category each day}^1} \times 100,000 \right)$$

**Rate ratios** result from the comparison of rates. For example, if the rate for not fully vaccinated persons is 20 cases per 100 New Mexicans not fully vaccinated and the rate for fully vaccinated with booster is 4 cases per 100 New Mexicans fully vaccinated with booster, then the rate ratio would be 5 and we would conclude that not fully vaccinated persons are at 5-times the risk of fully vaccinated persons with boosters for becoming a case of COVID-19.

**Hospitalizations** include all inpatient admissions of a New Mexico resident to an acute care hospital for >24 hours, with a positive laboratory test for SARS-CoV-2 within 14 days of admission or during admission.

**Deaths** are certified to have COVID-19 disease or SARS-CoV-2 as a cause of death or a significant condition contributing to death. Intentional and unintentional injuries are excluded. Death reporting might be delayed up to 6 weeks. Beginning January 1, 2022, deaths due to natural causes matched to a SARS-CoV-2 positive test result within 30 days of the date of death are included as COVID-19 related deaths even when COVID is not listed on the death certificate.

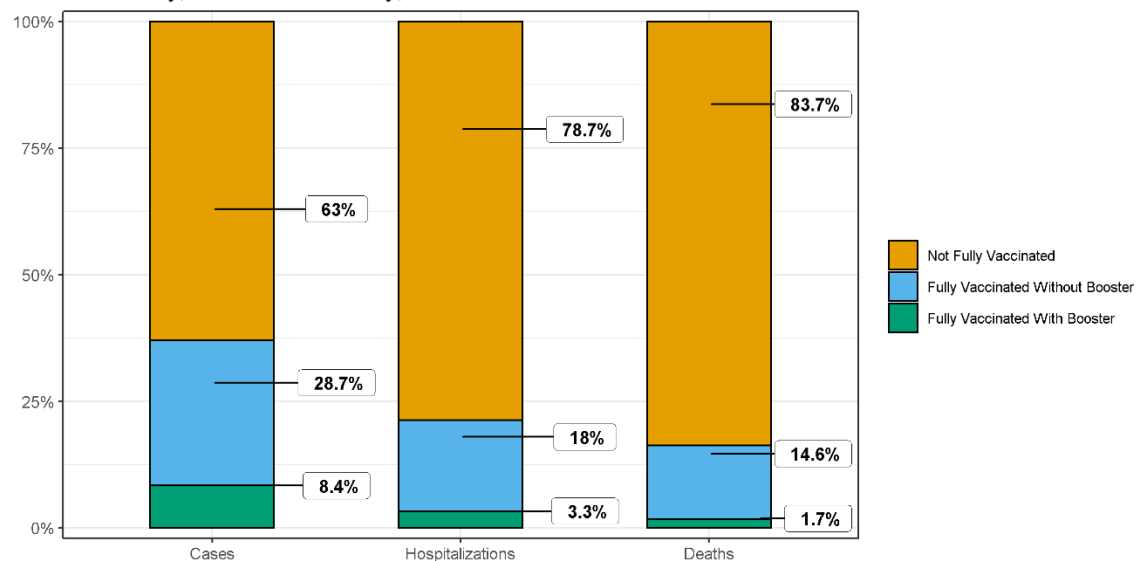
Case data by vaccination status are restricted to February 1, 2021 and onward to ensure the stability of cases counts and rates following the time of vaccine introduction. Fully Vaccinated With Booster hospitalization cases are restricted to October 8, 2021 and onward for similar reasons. Additional doses or booster doses are valid if the dose was administered on or after August 13, 2021.

In the following graphs and charts, you will see data that demonstrate the percentage and rate of cases, hospitalizations and deaths by vaccination status so that their absolute (counts and percent) and relative (rates) occurrence can be compared by vaccination status. We present these data across the entire pandemic and within the previous 4 weeks so that recent changes, if any, can be recognized. Additionally, we show the rate differences for cases fully vaccinated by age group, race/ethnicity, sex, and manufacturer to demonstrate the difference in risk experienced by New Mexicans with different demographic characteristics and vaccination histories.

## Rates and Percentages of Cases, Hospitalizations, and Deaths by Vaccination Status

### Cumulative

Percent of Cases Hospitalizations and Deaths by Vaccine Status  
1 February, 2021 - 14 February, 2022



#### Rate Ratios

Comparing Not Fully Vaccinated to Fully Vaccinated **Without** Booster

**2x**

Risk of Testing Positive

**4x**

Risk of Being Hospitalized

**5x**

Risk of Dying

Comparing Not Fully Vaccinated to Fully Vaccinated **With** Booster

**4x**

Risk of Testing Positive

**12x**

Risk of Being Hospitalized

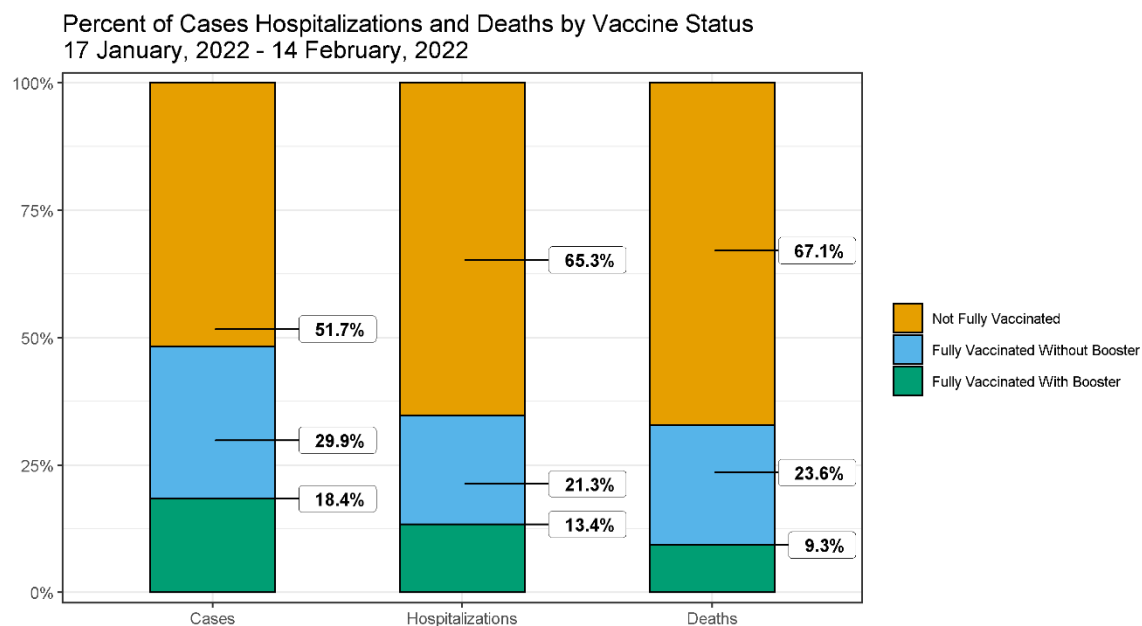
**16x**

Risk of Dying

Totals/Rates	Fully Vaccinated With Booster Totals	Fully Vaccinated Without Booster Totals	Not Fully Vaccinated Totals	Fully Vaccinated With Booster Rates	Fully Vaccinated Without Booster Rates	Not Fully Vaccinated Rates
Cases	27335	93633	205684	5186.0	11906.8	21513.3
Hospitalizations	438	2378	10420	86.0	283.9	1036.3
Deaths	46	405	2314	14.0	46.8	226.3

## Rates and Percentages of Cases, Hospitalizations, and Deaths by Vaccination Status

### During the Past Four Weeks\*



#### Rate Ratios

Comparing Not Fully Vaccinated to Fully Vaccinated **Without** Booster

**1.4x**

Risk of Testing Positive

**2x**

Risk of Being Hospitalized

**2x**

Risk of Dying

Comparing Not Fully Vaccinated to Fully Vaccinated **With** Booster

**2x**

Risk of Testing Positive

**4x**

Risk of Being Hospitalized

**6x**

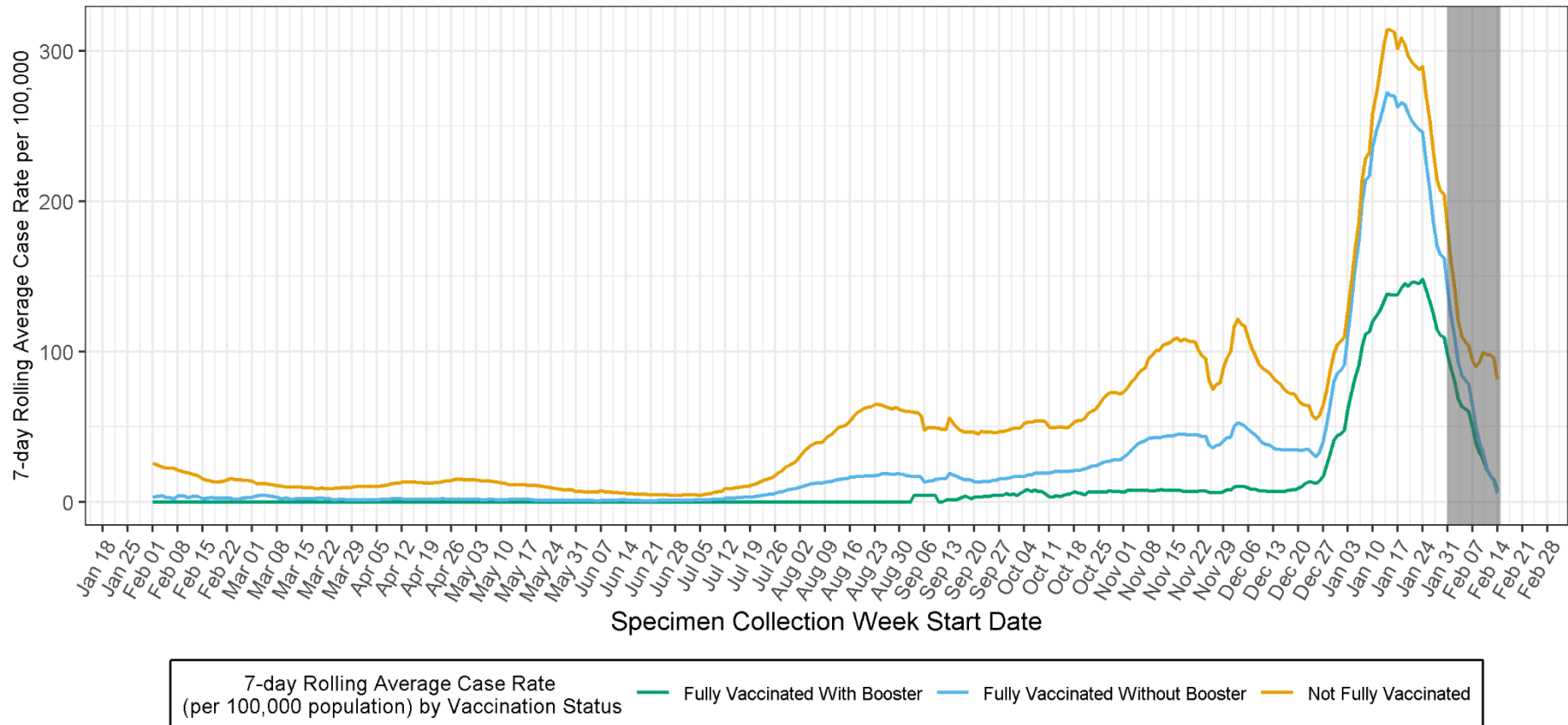
Risk of Dying

Totals/Rates	Fully Vaccinated With Booster Totals	Fully Vaccinated Without Booster Totals	Not Fully Vaccinated Totals	Fully Vaccinated With Booster Rates	Fully Vaccinated Without Booster Rates	Not Fully Vaccinated Rates
Cases	14324	23262	40259	2313.9	3519.7	4885.2
Hospitalizations	261	416	1273	41.3	63.9	155
Deaths	21	53	151	3.3	8.1	18.3

## 7-day rolling average case rate by vaccination status

### 7-day Rolling Average Case Rate (per 100,000 population) by Vaccination Status

**\*\*All Cases**

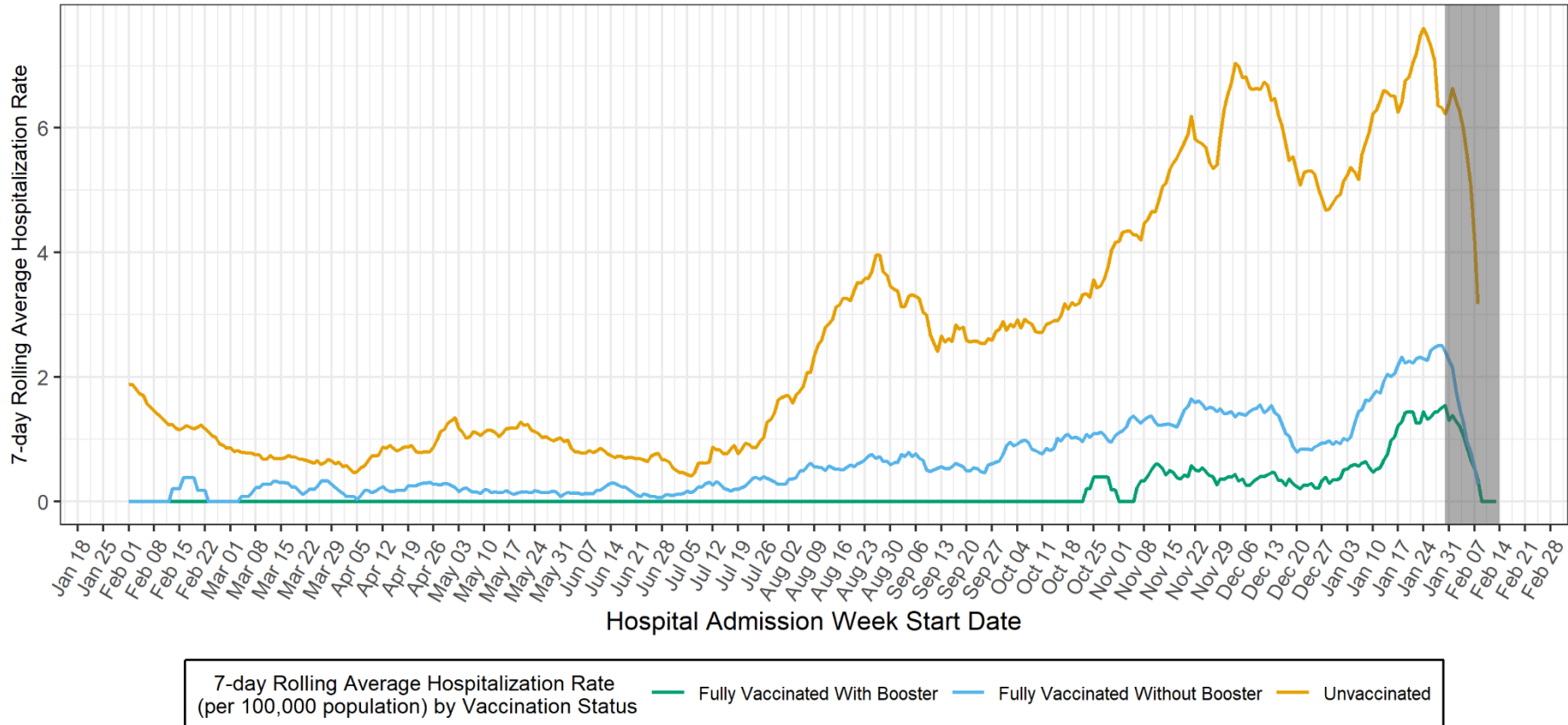


\*The dark grey shaded region represents the lag period between specimen collection and vaccine breakthrough case ascertainment where reporting of cases may be incomplete.

## 7-day rolling average hospitalization by vaccination status

### 7-day Rolling Average Hospitalization Rate (per 100,000 population) by Vaccination Status

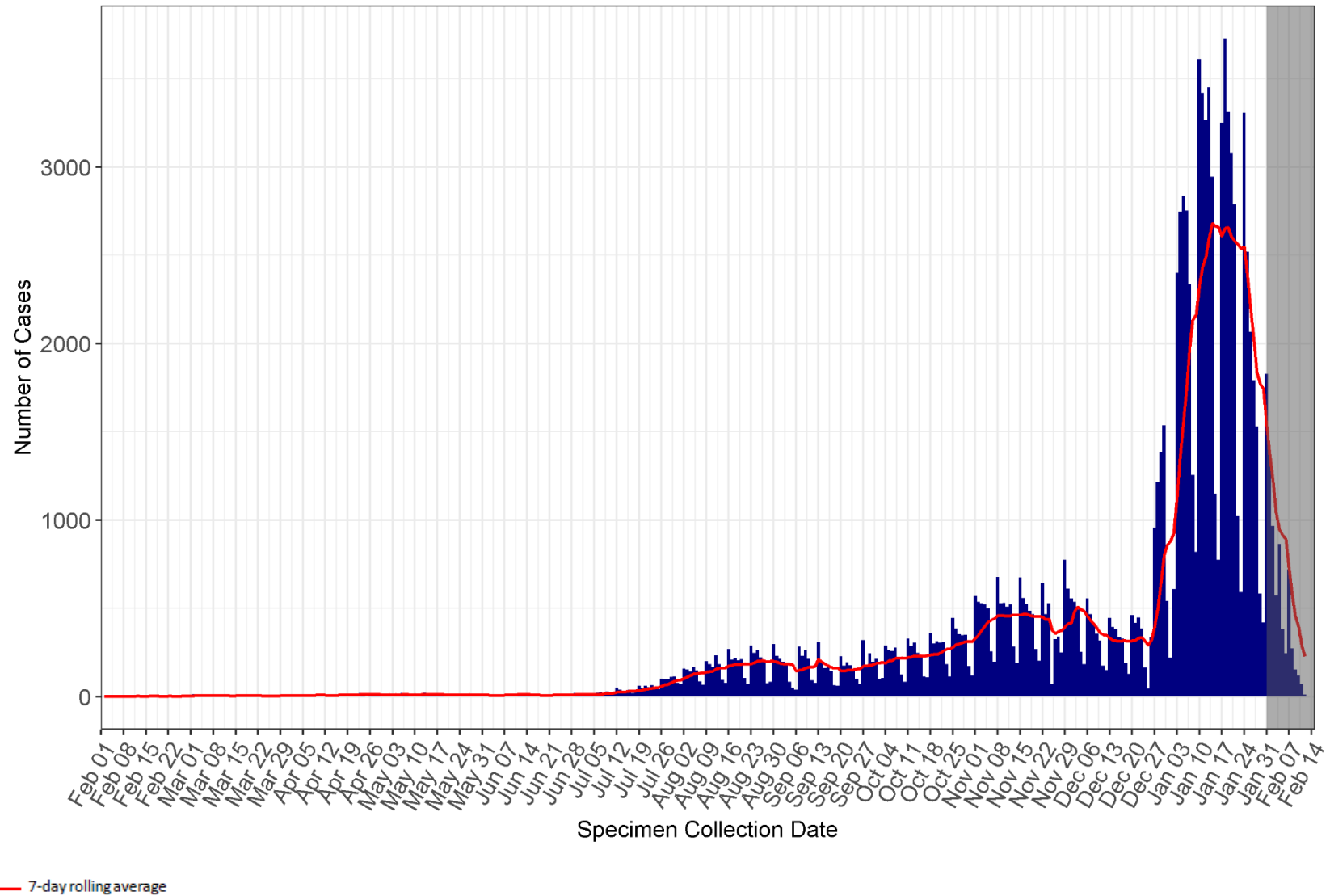
**\*\*All Cases**



\*The dark grey shaded region represents the lag period between specimen collection and vaccine breakthrough case ascertainment where reporting of cases may be incomplete.

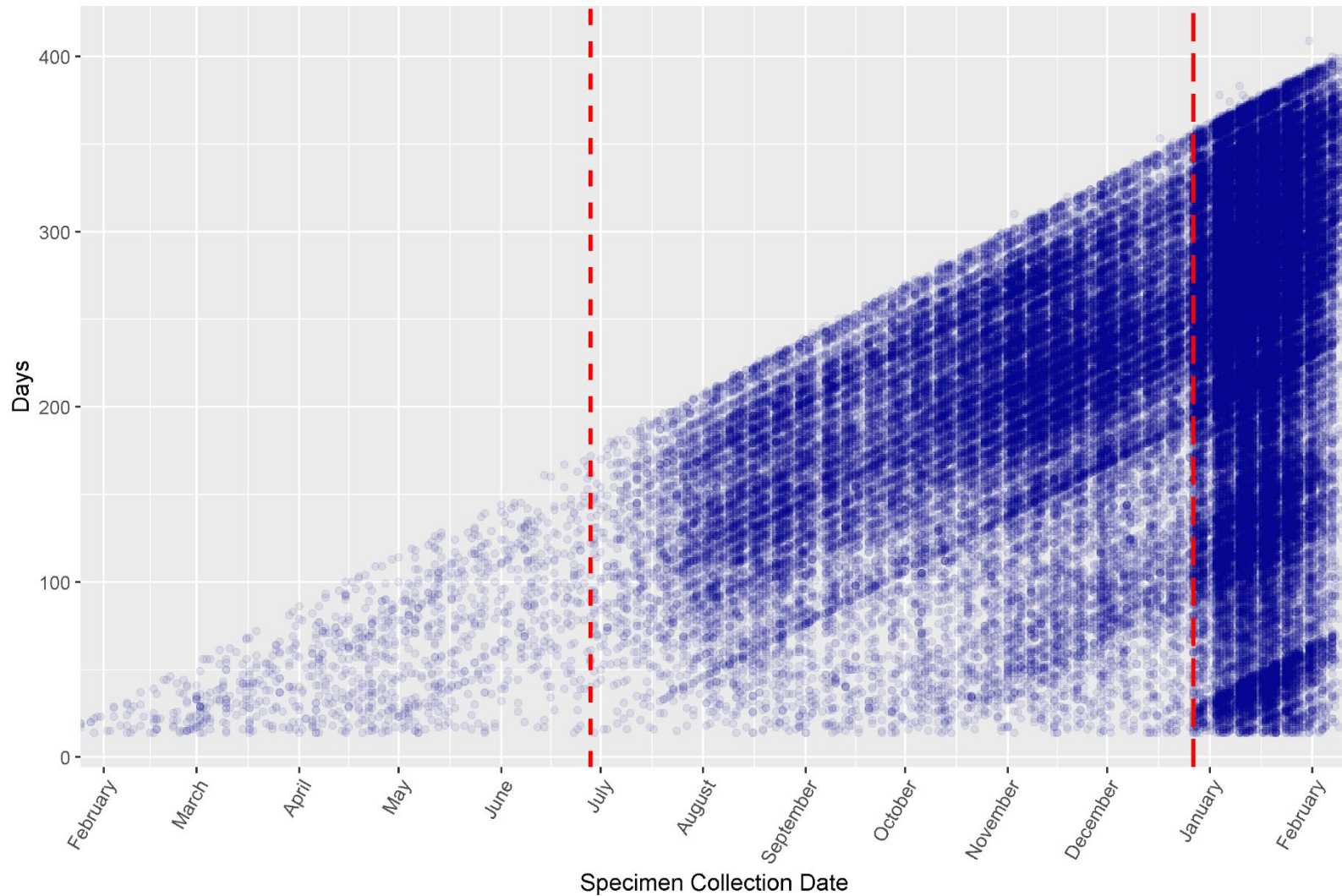
## Fully Vaccinated Cases by Specimen Collection Date

Fully Vaccinated Cases by Specimen Collection Date, plus 7-Day Rolling Average  
1 February, 2021 - 14 February, 2022

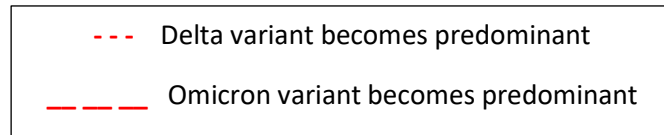


## Days Between Final Dose and Specimen Collection

Days Between Final Vaccination Dose and Specimen Collection Date

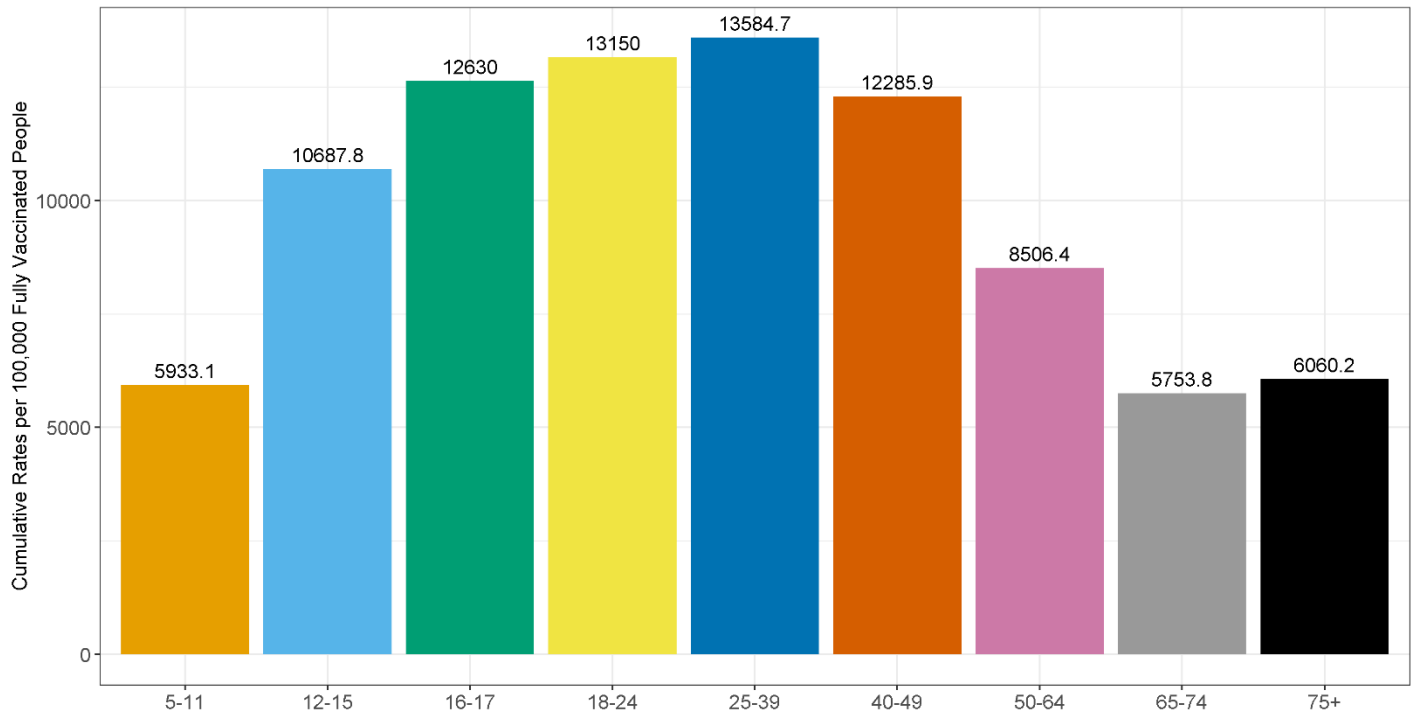


Median: 231 days

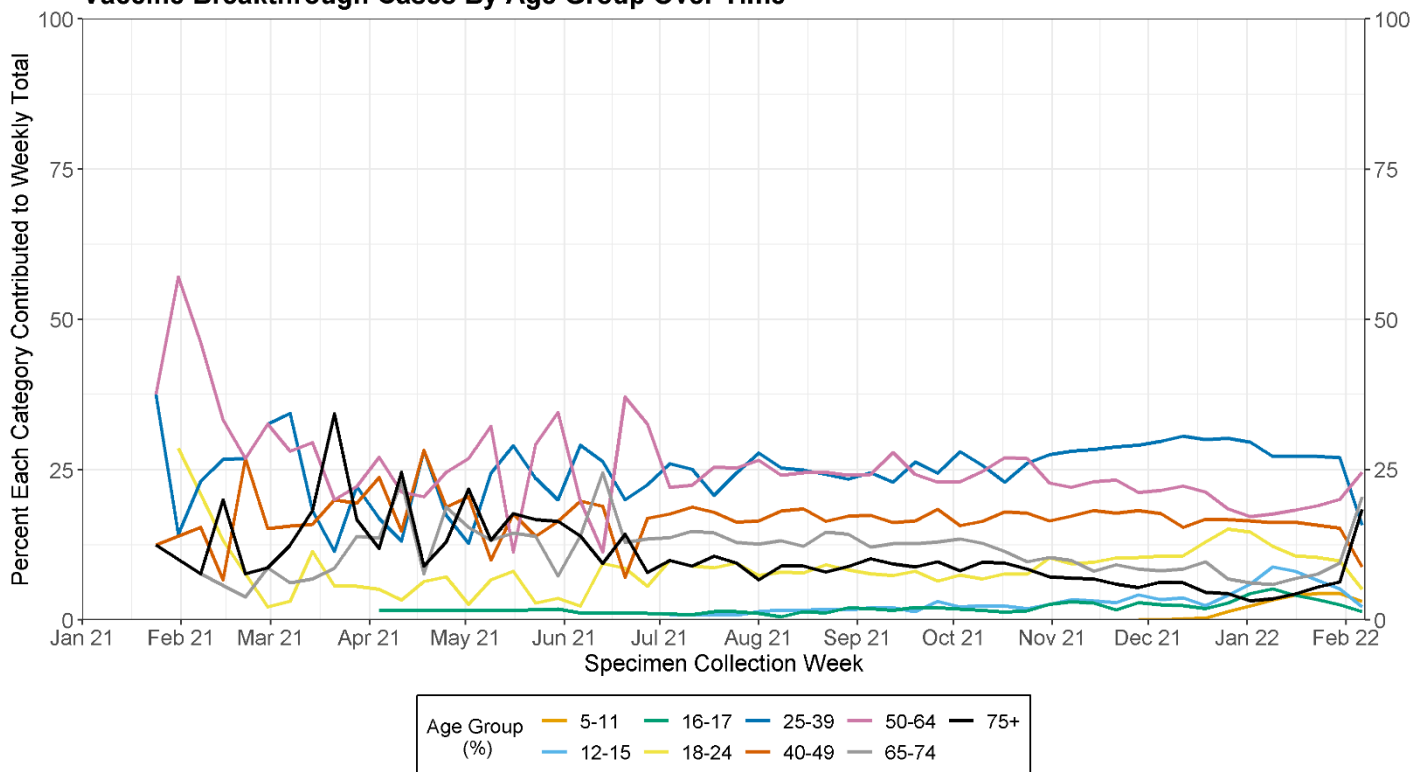


## Fully Vaccinated Cases by Age

**Cumulative Vaccine Breakthrough Rates by Age per 100,000 Fully Vaccinated People  
1 February, 2021 - 14 February, 2022\***



**Vaccine Breakthrough Cases By Age Group Over Time**

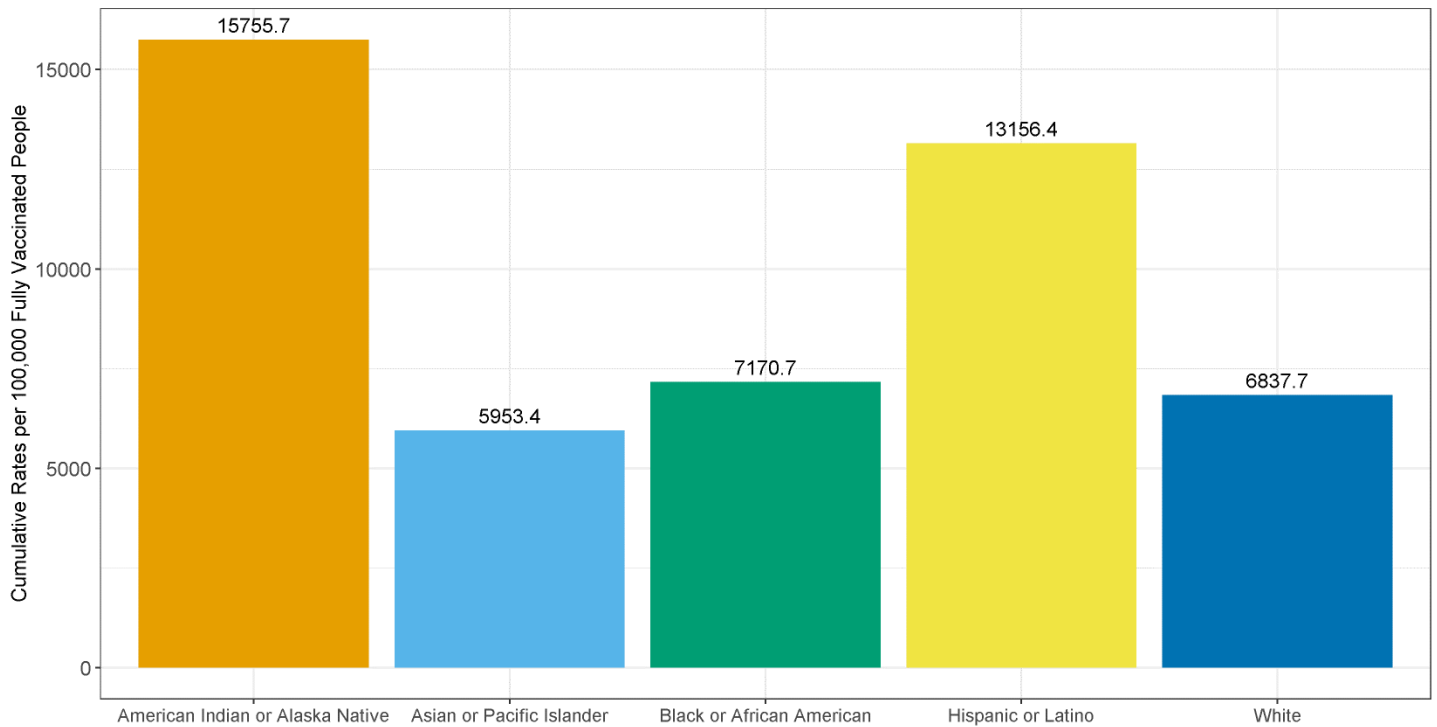


\*  $\sum \left( \frac{\text{Number with COVID - 19 among those fully vaccinated each day}}{\text{Number of NM residents fully vaccinated each day}} \times 100,000 \right)$

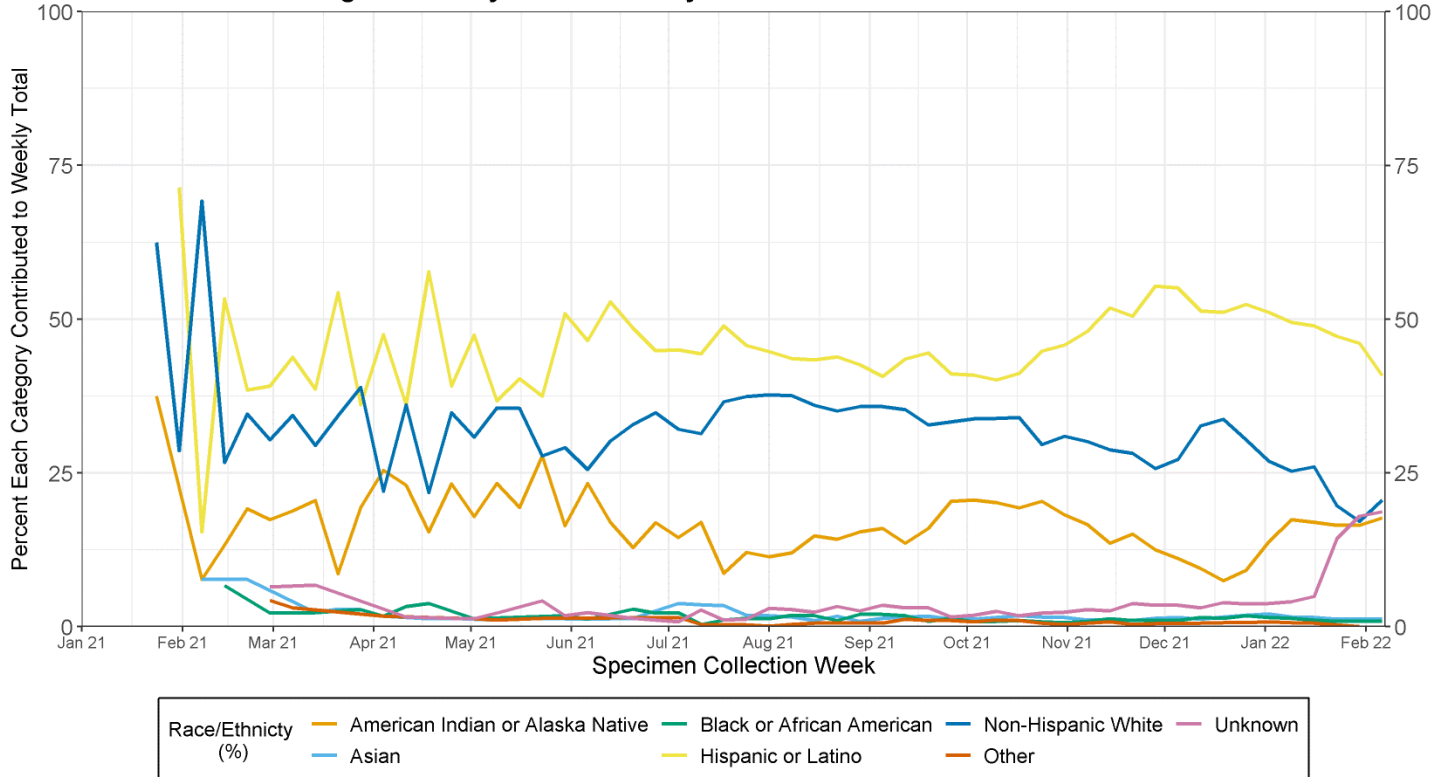


## Fully Vaccinated Cases by Race and Ethnicity

**Cumulative Vaccine Breakthrough Rates by Race/Ethnicity per 100,000 Fully Vaccinated People  
1 February, 2021 - 14 February, 2022\***



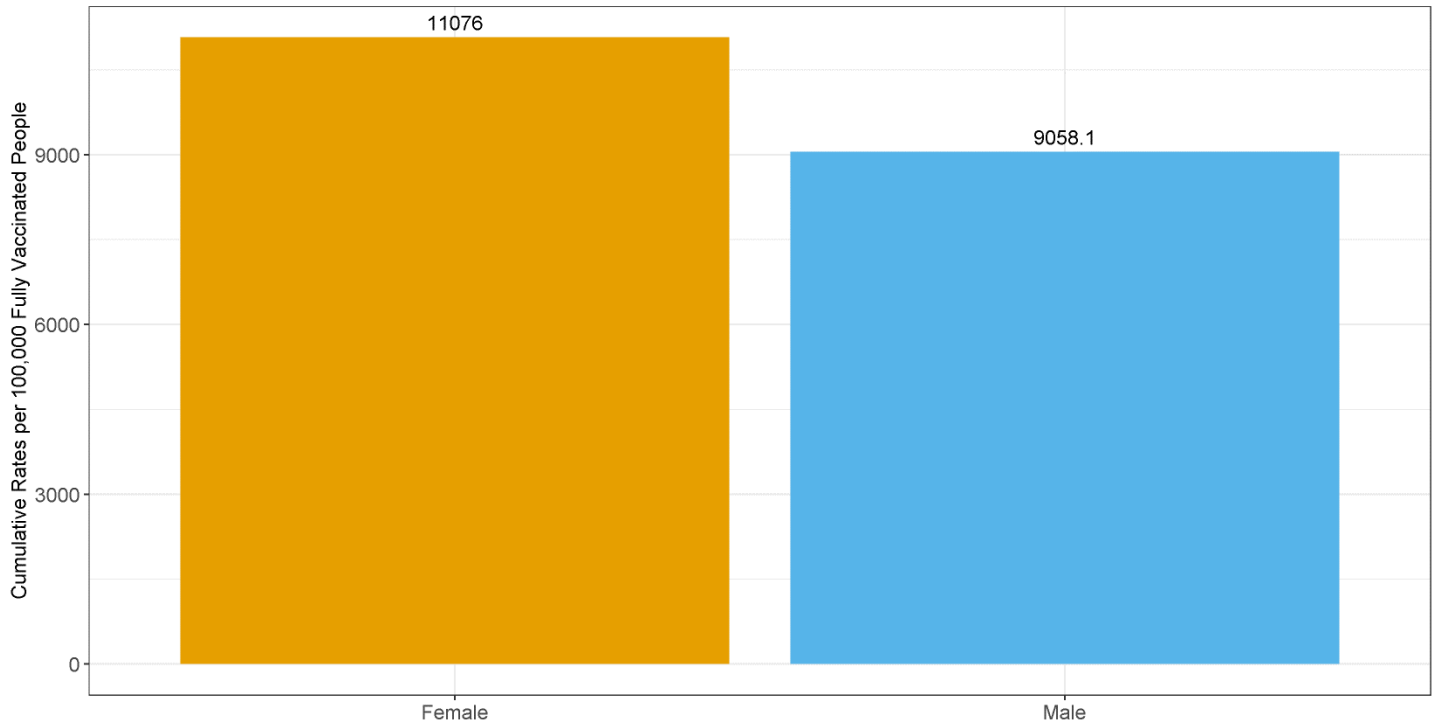
**Vaccine Breakthrough Cases By Race/Ethnicity over Time**



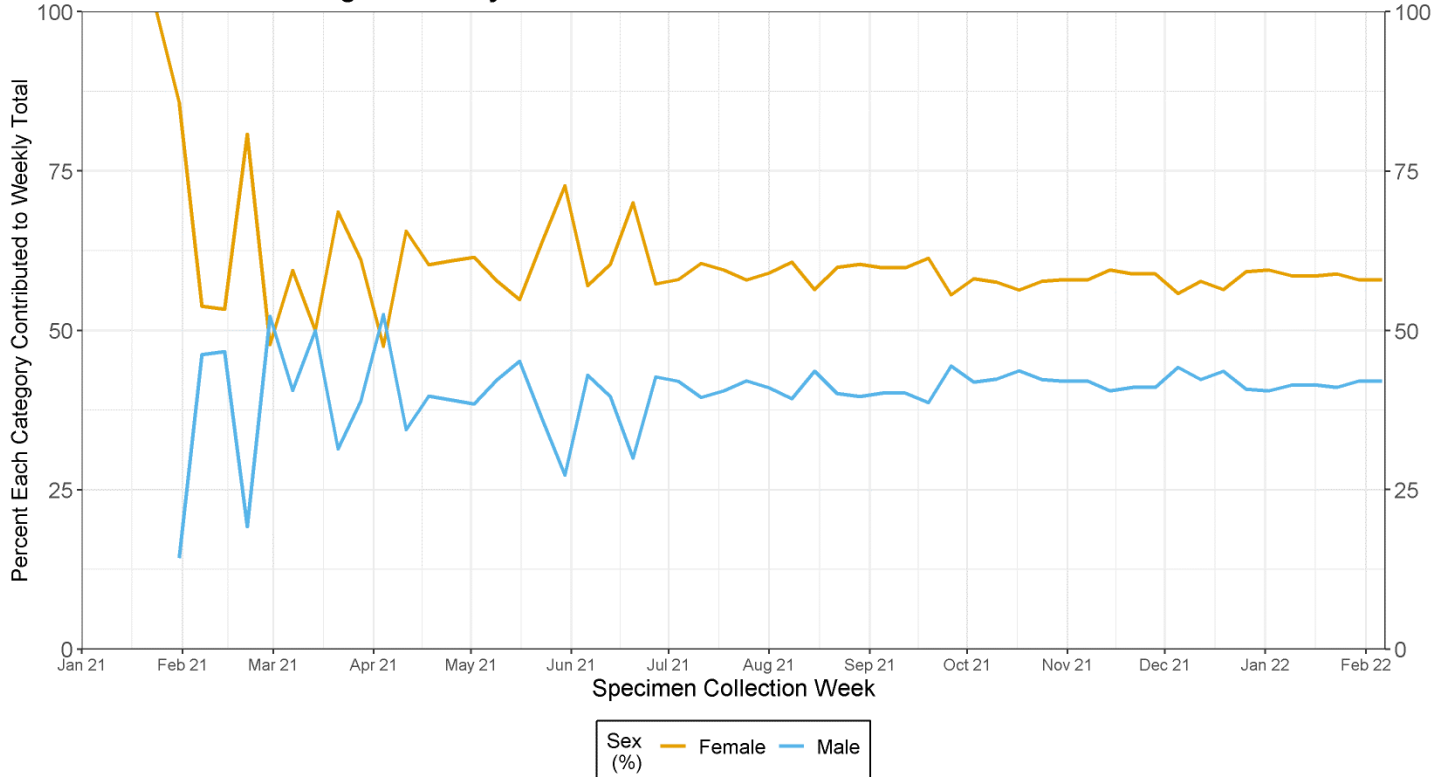
\*  $\text{sum} \left( \frac{\text{Number with COVID - 19 among those fully vaccinated each day}}{\text{Number of NM residents fully vaccinated each day}} \times 100,000 \right)$

## Fully Vaccinated Cases by Sex

**Cumulative Vaccine Breakthrough Rates by Sex per 100,000 Fully Vaccinated People**  
1 February, 2021 - 14 February, 2022\*



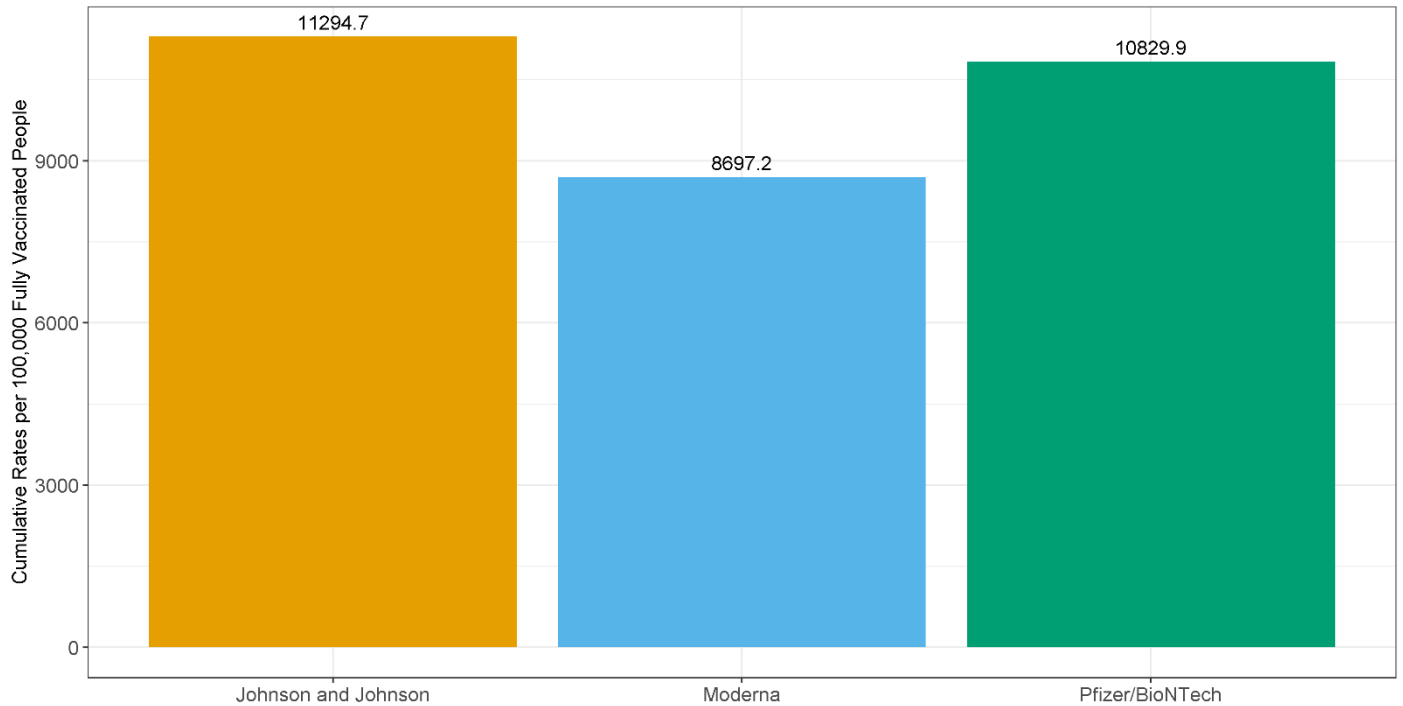
**Vaccine Breakthrough Cases By Sex over Time**



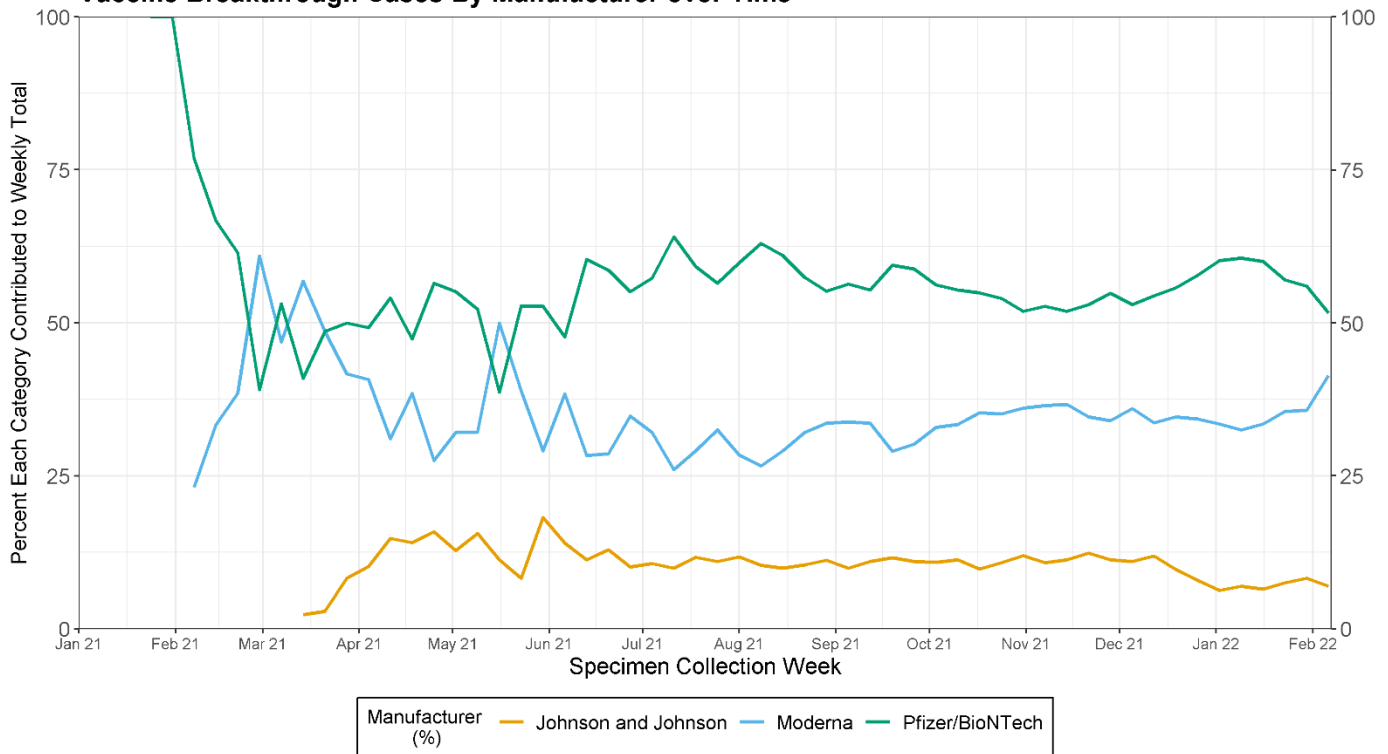
\*  $\sum \left( \frac{\text{Number with COVID - 19 among those fully vaccinated each day}}{\text{Number of NM residents fully vaccinated each day}} \times 100,000 \right)$

## Fully Vaccinated Cases by Vaccine Manufacturer

**Cumulative Vaccine Breakthrough Rates by Manufacturer per 100,000 Fully Vaccinated People  
1 February, 2021 - 14 February, 2022\***



**Vaccine Breakthrough Cases By Manufacturer over Time**



\*  $\text{sum} \left( \frac{\text{Number with COVID - 19 among those fully vaccinated each day}}{\text{Number of NM residents fully vaccinated each day}} \times 100,000 \right)$

## Data Sources

- **COVID-19 data**
  - **New Mexico Electronic Disease Surveillance System (NM-EDSS)**, Infectious Disease Epidemiology Bureau, Epidemiology and Response Division, New Mexico Department of Health.
  - **Salesforce/MTX COVID-19 Case Investigation Platform.**
- **Vaccination Data**
  - **New Mexico State Immunization Information System (NMSIIS)**, NMDOH Immunization Program, Public Health Division, New Mexico Department of Health
  - **Tiberius: HHS Protect-OWS**, US Health and Human Services, Department of Defense
- **Population Estimates:** University of New Mexico, Geospatial and Population Studies (GPS) Program.

## Data Notes

- **The data reported in this weekly update may not match the daily numbers that are reported in the New Mexico Department of Health (NMDOH) press releases and/or the NMDOH COVID-19 data dashboard. This may be due to variation in the date and time of data extraction from NM-EDSS, corrections after quality assurance review, and differences in the exclusion criteria.**
- **New Mexico Electronic Disease Surveillance System (NM-EDSS).** Disease incidence data are derived from reports of notifiable infectious diseases. NMDOH relies on health care providers, laboratories, hospitals, clinics, institutions and individuals to report suspected and confirmed notifiable infectious diseases in accordance with New Mexico Administrative Code 7.4.3.13. Under-reporting can occur due to lack of awareness about reporting requirements or lack of compliance with those requirements. Not all cases of infectious diseases can be detected for various reasons including lack of access to health care services, lack of laboratory testing or concerns about confidentiality. Specific and standardized national case definitions are used to classify disease reports by case status.
- **New Mexico Population Estimates.** All population estimates apply to July 1 of 2019. Estimates include decimal fractions. The sum of population subgroup estimates may not exactly equal the overall state population estimate due to rounding error. Population estimates for previous years are occasionally revised as new information becomes available. When publishing trend data, always be sure that your rates for earlier years match current rates on NM-IBIS that have been calculated with the most up-to-date population estimates.
- **Case rate per 100,000 population.** A basic measure of disease-specific case frequency is a rate, which takes into account the number of cases and the population size. It is helpful in making public health decisions for a given population, relative to another population regardless of size.