

COVID-19 Cases by Vaccination Status

Updated: May 12, 2023
Data as of May 06, 2023



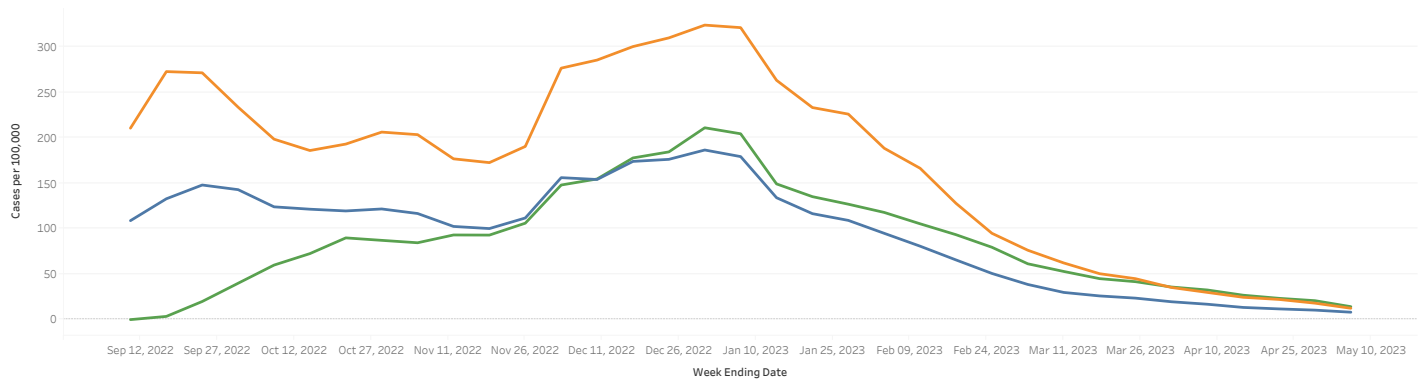
Rates by Vaccination Status

Start Date 9/4/2022

End Date 5/6/2023

Metric Case Rates

COVID-19 Case Rates per 100,000⁷



- Unvaccinated
- Fully Vaccinated Without An Updated Booster
- Fully Vaccinated With An Updated Booster

Risk of COVID-19 Infection & Hospitalization for Persons 50+: April 09, 2023 - May 06, 2023

Fully Vaccinated individuals with an Updated Bivalent Booster
had **3 times lower risk of infection** with COVID-19 compared to
Unvaccinated individuals

Fully Vaccinated individuals with an Updated Bivalent Booster
had **4 times lower risk of hospitalization** with COVID-19 compared to
Unvaccinated individuals

Definitions

1. A vaccine breakthrough case, or a fully vaccinated case, is defined as SARS-CoV-2 RNA or antigen detected on a respiratory specimen collected ≥ 14 days after completing the primary series of an FDA-authorized or approved COVID-19 vaccine.
2. A fully vaccinated case with one or more monovalent additional/booster doses is defined as SARS-CoV-2 RNA or antigen detected on a respiratory specimen collected in a fully vaccinated person ≥ 14 days after receipt of at least one additional dose of any monovalent FDA-authorized or approved COVID-19 vaccine on or after August 13, 2021.
3. Individuals with a primary series only and those with a primary series and one or more monovalent booster doses were combined in to the "fully vaccinated without an updated booster" category.
4. A fully vaccinated case with an updated bivalent booster is defined as SARS-CoV-2 RNA or antigen detected on a respiratory specimen collected in a fully vaccinated person ≥ 14 days after receipt of at least one additional dose of any bivalent FDA-authorized or approved COVID-19 vaccine on or after September 1, 2022.

Notes

1. Data are updated weekly, are preliminary and subject to change.
2. Unvaccinated persons include those that are unvaccinated, partially vaccinated, or those for whom vaccine status is unknown. The population that was unvaccinated was calculated as the total NJ population 5 years of age and older based on 2020 Census data minus persons fully vaccinated.
3. Case, hospitalization, and death counts include positive PCR or antigen cases for individuals of all ages and are based on illness onset date. If the illness onset date is unknown, the date of earliest positive specimen collection or the date of NJDOH notification is used, whichever is earlier.
4. Hospitalization counts include cases that were ever hospitalized. Information on persons ever hospitalized is obtained through public health investigation and may not match other data sources. Hospitalization data is supplemented monthly by NJ Hospital Discharge Data Collection System data, but there are often delays of several months before this data is received from hospitals.
5. Deaths counts include those that had COVID-19 as a cause of death on the death certificate or had a date of death within 30 days of the positive specimen collection date.
6. The number of New Jersey residents with a specific vaccination status changes each week. This change over time is reflected in the denominators used for rate calculations. Denominators include individuals of all ages according to age structure of NJ from 2020 Census data.
7. Rates per 100,000 by vaccination status were calculated as the number of weekly cases, hospitalizations, and deaths divided by the number of NJ residents who were unvaccinated, fully vaccinated without an updated booster, or fully vaccinated with an updated booster that week multiplied by 100,000.
8. Rates do not account for previous infection, waning protection related to time since vaccination, differences in testing practices such as the use of home tests, underlying medical conditions, and differences in preventative behaviors which may vary by vaccination status.
9. The shaded portion on the chart of COVID-19 Hospitalization Rates indicates that rates may be underestimated due to reporting delays in hospitalizations.