# 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.

### COVID-19 Case Data by Vaccination Status March 21, 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:

- Unvaccinated: this category includes cases, hospitalizations, and deaths in persons who have not received any FDA-authorized COVID-19 vaccine doses before they tested positive for SARS-CoV-2.
- Primary Series Completed: 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.
- Primary Series Completed 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

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 have been excluded from the tables and graphs contained in this document. These persons are considered partially vaccinated.

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 Unvaccinated, Primary Series Completed Without Booster, and Primary Series Completed With Booster according to the follow formula:

$$sum\left(\frac{Number\ with\ COVID-19\ in\ the\ category\ each\ day}{Number\ of\ NM\ residents\ in\ the\ category\ each\ day} imes 100,000
ight)$$

<u>Rate ratios</u> are the comparisons between two rates. For example, if the rate for unvaccinated persons is 20 cases (per 100 unvaccinated New Mexicans) and the rate for those who have completed the primary series and booster is 4 cases (per 100 New Mexicans who have completed the primary series and booster), then the rate ratio would be 5. We would conclude that unvaccinated persons are at 5-times the risk of becoming a case of COVID-19 compared to persons who have completed a primary series with booster.

<u>Hospitalizations</u> 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.

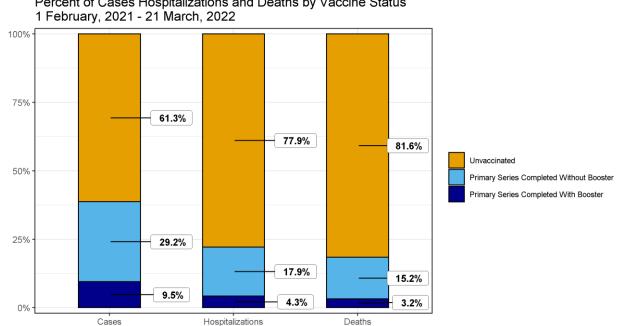
Case data by vaccination status are restricted to February 1, 2021 and onward to ensure the stability of cases counts and rates following the time of vaccine introduction. Additional doses or booster doses are valid if the dose was administered on or after August 13, 2021. Hospitalization cases with Primary Series Completed With Booster are restricted to October 8, 2021 and onward.

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 Primary Series Completed cases by age group, race/ethnicity, sex, and manufacturer to demonstrate the difference in risk experienced by New Mexicans with different demographic characteristics and vaccination history.

Beginning on page 6, the designation of Primary Series Completed includes cases in persons who have completed a primary vaccination series and may have completed an additional dose or a booster dose 14 or more days before they tested positive for SARS-CoV-2.

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

## Cumulative

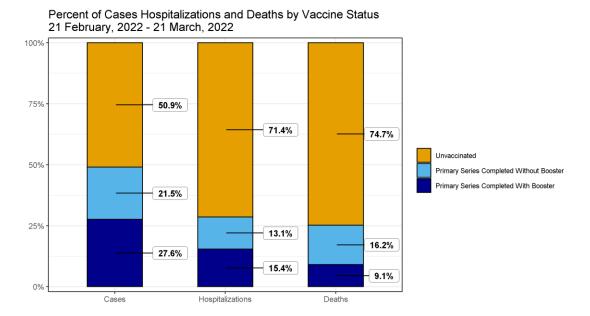


Percent of Cases Hospitalizations and Deaths by Vaccine Status

Rate Ratios						
Comparing Unvaccinated to Primary Series Completed Without Booster						
2.1x	4x	5x				
Risk of Testing Positive	Risk of Being Hospitalized	Risk of Dying				
Comparing Unvaccinated to Primary Series Completed With Booster						
5x	13x	14x				
Risk of Testing Positive	Risk of Being Hospitalized	Risk of Dying				
Primary Series Completed Prima	ary Series Completed Unvaccinated Primary Series Con	npleted Primary Series Completed				

Totals/Rates	With Booster Totals	Without Booster Totals	Unvaccinated Totals	With Booster Rates	Without Booster Rates	Unvaccinated Rates
Cases	32199	99411	208589	5832.1	12916.3	26969.6
Hospitalizations	622	2612	11375	111.7	320.5	1395.6
Deaths	105	493	2650	22.8	60.8	326.8

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



## **During the Past Four Weeks\***

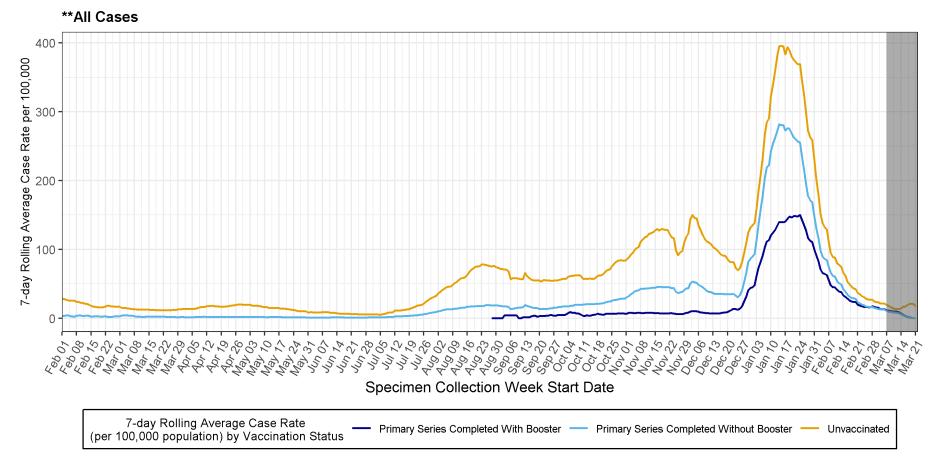
Rate Ratios					
Comparing Unvaccinated to Primary Series Completed Without Booster					
2x	2x 5x 5x				
Risk of Testing Positive	Risk of Being Hospitalized	Risk of Dying			
Comparing Unvaccinated to Primary Series Completed With Booster					
2x	5x	9x			
Risk of Testing Positive	Risk of Being Hospitalized	Risk of Dying			

Totals/Rates	Primary Series Completed <b>With</b> Booster Totals	Primary Series Completed <b>Without</b> Booster Totals	Unvaccinated Totals	Primary Series Completed <b>With</b> Booster Rates	Primary Series Completed Without Booster Rates	Unvaccinated Rates
Cases	1943	1510	3586	270.9	255.1	581.5
Hospitalizations	81	69	375	11.3	11.7	61.3
Deaths	9	16	74	1.3	2.7	12.2

\*Due to the lag period between specimen collection and vaccine breakthrough case ascertainment, the data represented above may be incomplete.

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

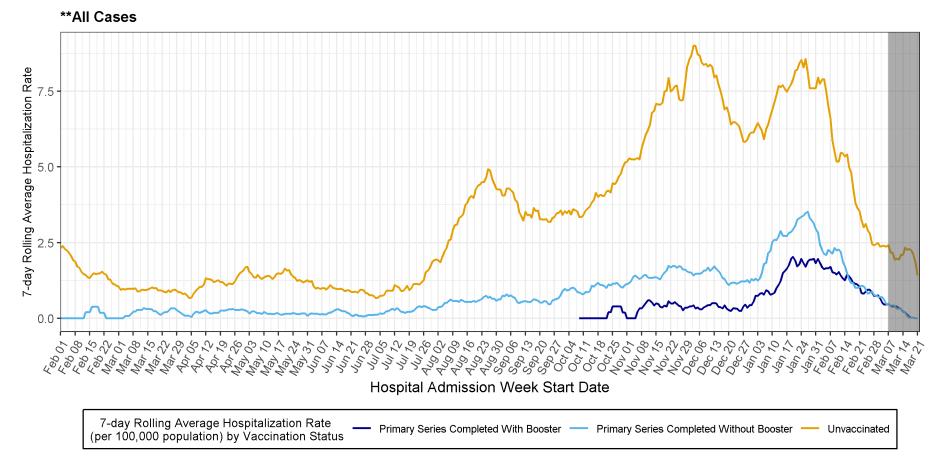
7-day Rolling Average Case Rate (per 100,000 population) by Vaccination Status



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

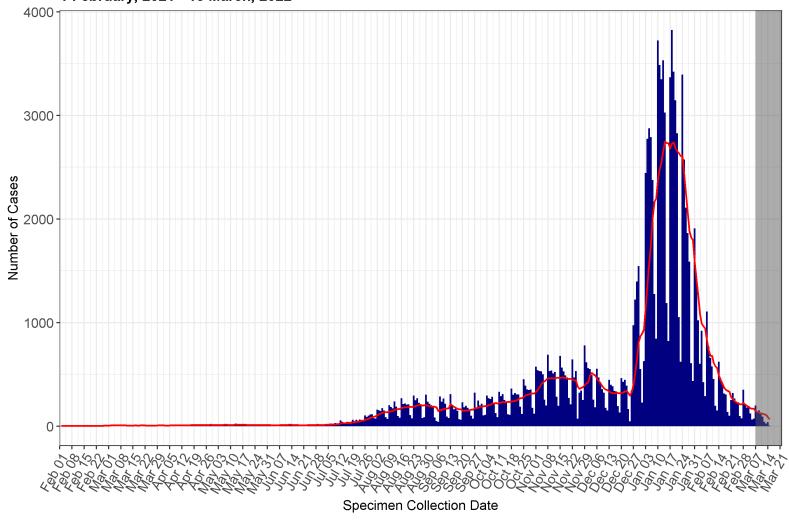
### 7-day rolling average hospitalization by vaccination status

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



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

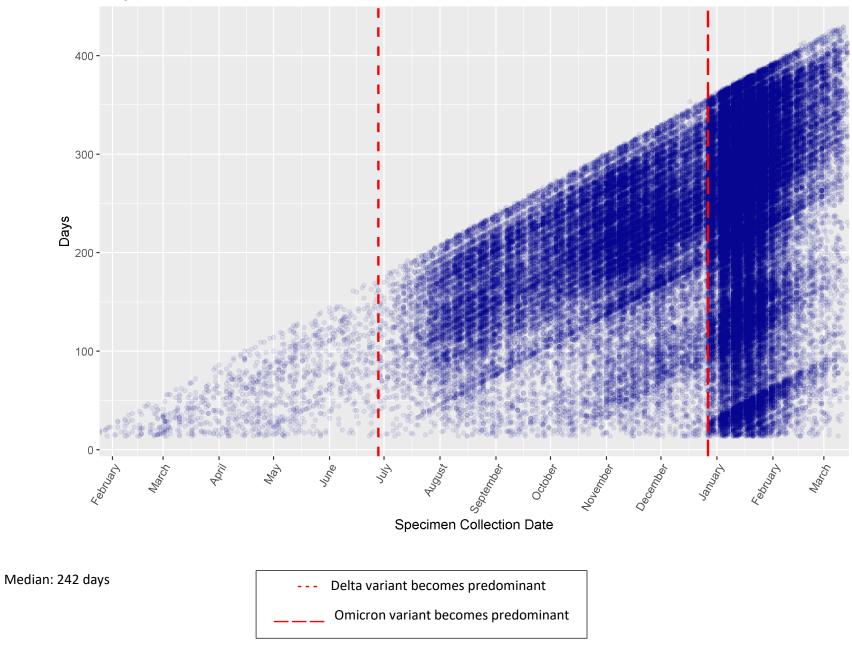
# Primary Series Completed Cases by Specimen Collection Date



Primary Series Completed Cases by Specimen Collection Date, plus 7-Day Rolling Average 1 February, 2021 - 18 March, 2022

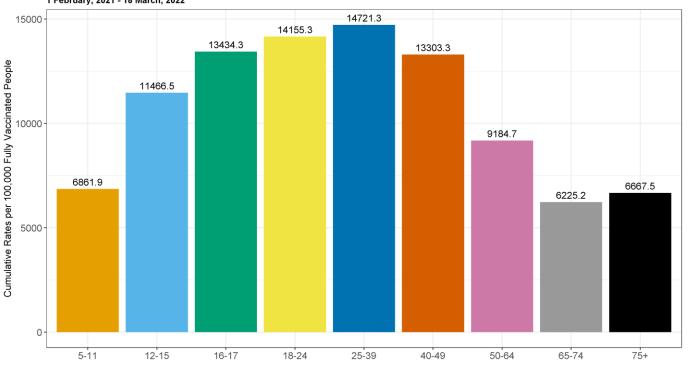
7-day rolling average

# Days Between Final Dose and Specimen Collection

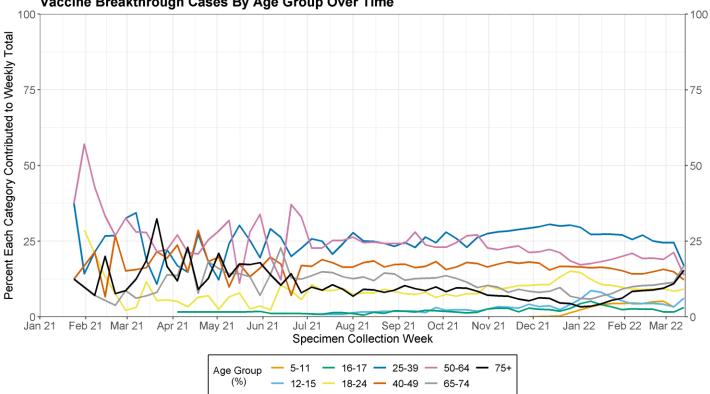


# **Days Between Final Vaccination Dose and Specimen Collection Date**

## Primary Series Completed Cases by Age



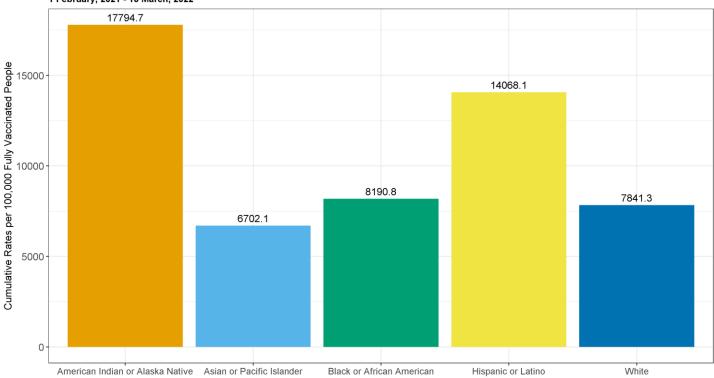
Cumulative Vaccine Breakthrough Rates by Age per 100,000 People Who Have Completed a Primary Vaccination Series 1 February, 2021 - 18 March, 2022\*

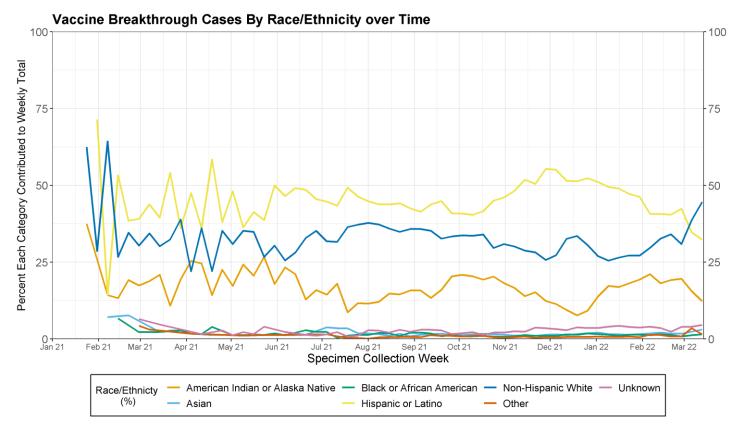


Vaccine Breakthrough Cases By Age Group Over Time

\* sum (Number with COVID - 19 among those who have completed a primary vaccination series each day Number of MM noidents who have completed a primary vaccination series each day × 100,000) Number of NM residents who have completed a primary vaccination series each day

## **Primary Series Completed Cases by Race and Ethnicity**



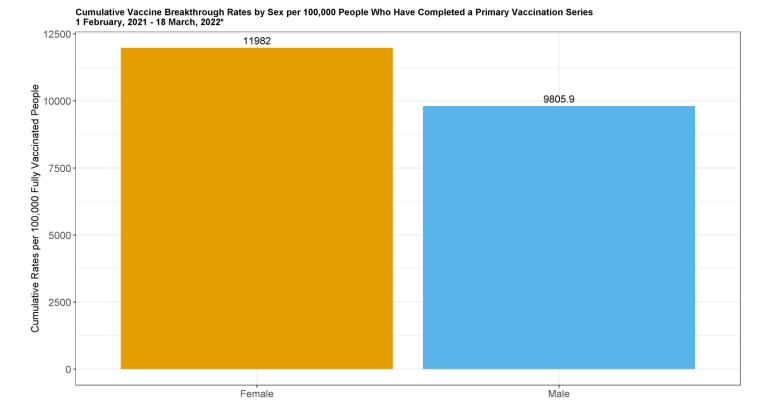


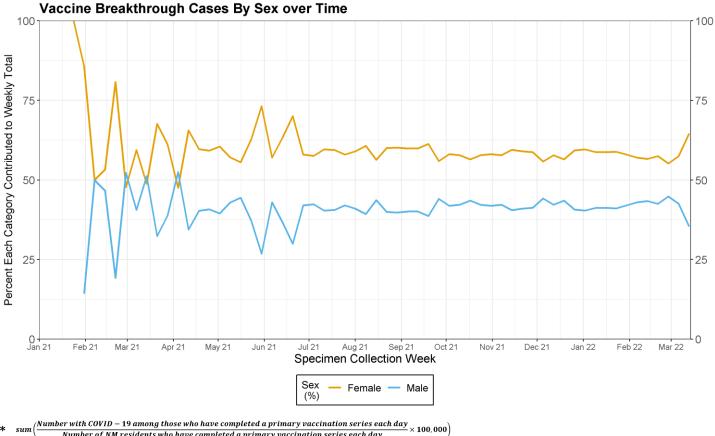
Cumulative Vaccine Breakthrough Rates by Race/Ethnicity per 100,000 People Who Have Completed a Primary Vaccination Series 1 February, 2021 - 18 March, 2022\*

Number with COVID – 19 among those who have completed a primary vaccination series each day  $\times$  100,000 \* sum

Number of NM residents who have completed a primary vaccination series each day

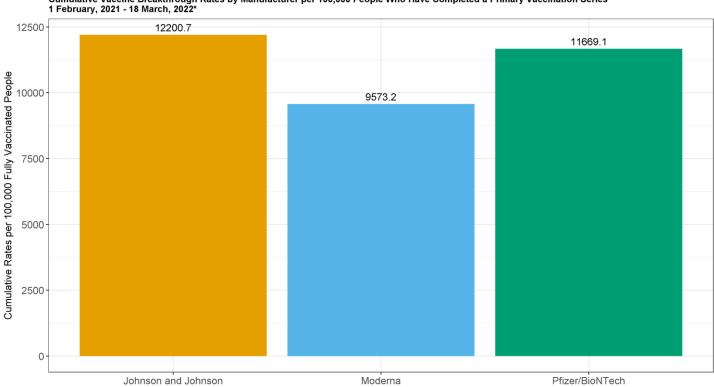
# **Primary Series Completed Cases by Sex**

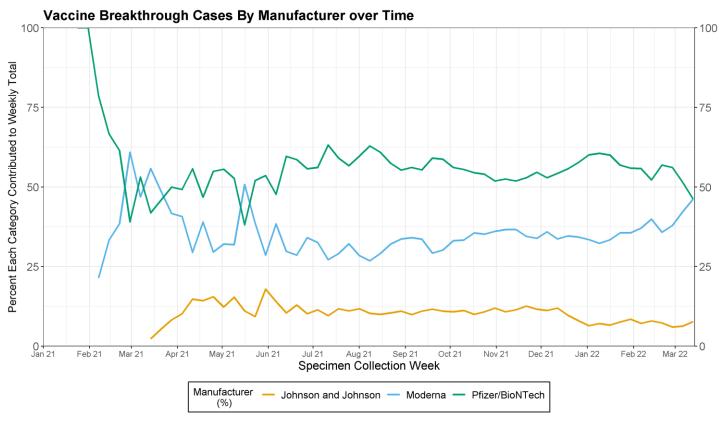




\* sum Number of NM residents who have completed a primary vaccination series each day

## Primary Series Completed Cases by Vaccine Manufacturer





Cumulative Vaccine Breakthrough Rates by Manufacturer per 100,000 People Who Have Completed a Primary Vaccination Series 1 February, 2021 - 18 March, 2022\*

Number with COVID - 19 among those who have completed a primary vaccination series each day  $\times$  100,000 \* sum Number of NM residents who have completed a primary vaccination series each day

#### • 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 of 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.