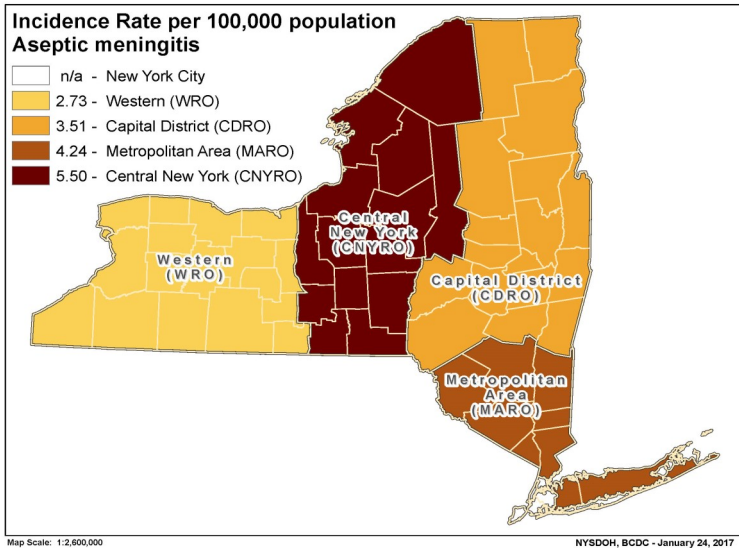


# Aseptic Meningitis

## Aseptic Meningitis Annual Incidence Rate by Year and Region, NYS (excluding NYC), 2011-2015



Aseptic meningitis can be caused by a number of different viruses. Because a number of different viruses are capable of causing viral meningitis, the manner in which the virus is spread depends upon the type of virus involved. Some are spread by person-to-person contact; others can be spread by insects. To learn more about aseptic meningitis please visit our [website](#).

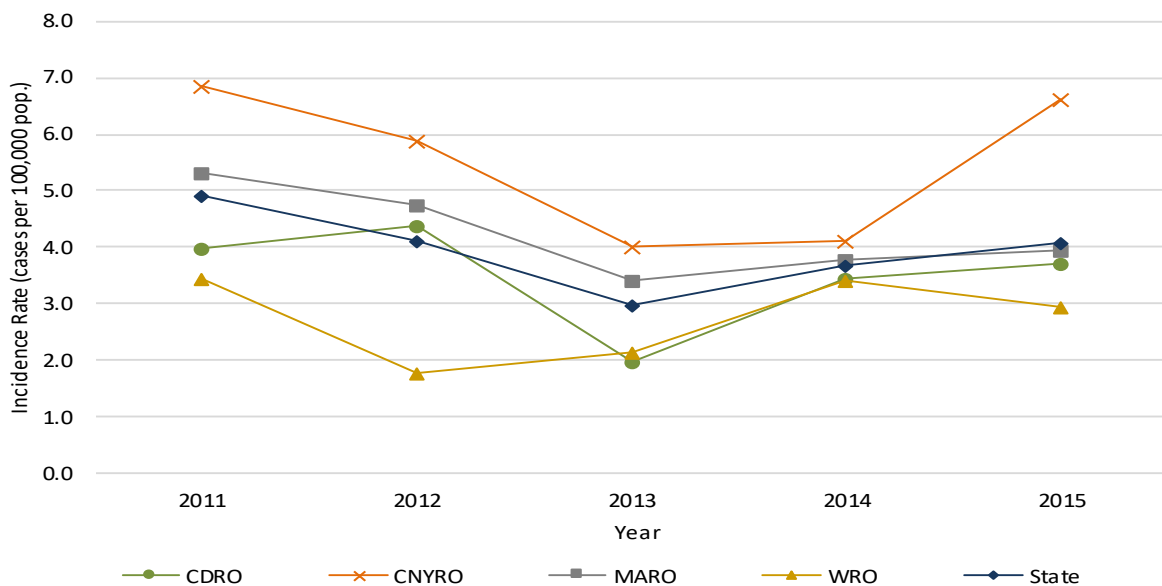
Slight variations in the incidence of aseptic meningitis from year to year and are likely reflective of fluctuations in the circulation of causative viral agents such as enteroviruses and arboviruses.

In New York State, exclusive of New York City, incidence over the past 5 years has remained around 4 cases per 100,000 population.

Of the 2,217 aseptic meningitis cases between 2011 and 2015,

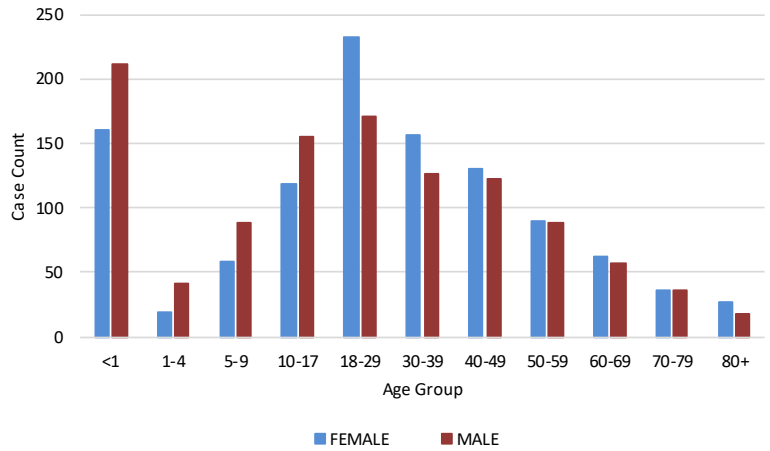
- 94.8% were hospitalized;
- 0.7% have resulted in death.

| Region | Case and Incidence rates( per 100,000 population) , NYS (excluding NYC), 2011-2015 |      |      |      |      |      |      |      |      |      |       |      |
|--------|--|------|------|------|------|------|------|------|------|------|-------|------|
|        | 2011   |      | 2012 |      | 2013 |      | 2014 |      | 2015 |      | Total |      |
|        | N  | Rate | N    | Rate | N    | Rate | N    | Rate | N    | Rate | N     | Rate |
| CDRO   | 60   | 3.98 | 66   | 4.38 | 30   | 1.99 | 52   | 3.45 | 56   | 3.72 | 264   | 3.51 |
| CNYRO  | 120  | 6.86 | 103  | 5.88 | 70   | 4    | 72   | 4.11 | 116  | 6.63 | 481   | 5.5  |
| MARO   | 272  | 5.31 | 244  | 4.76 | 174  | 3.4  | 193  | 3.77 | 203  | 3.96 | 1086  | 4.24 |
| WRO    | 97   | 3.44 | 50   | 1.77 | 60   | 2.13 | 96   | 3.4  | 83   | 2.94 | 386   | 2.73 |
| State  | 549  | 4.9  | 463  | 4.13 | 334  | 2.98 | 413  | 3.69 | 458  | 4.09 | 2,217 | 3.96 |



**Aseptic Meningitis 5-Year Cumulative Frequency by Age Group and Gender, NYS (excluding NYC), 2011-2015**

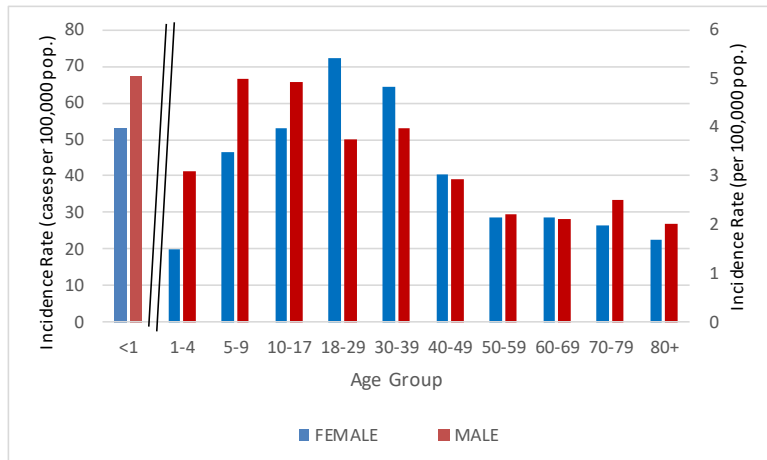
The highest number of cases is seen in infants under the age of one and young adults 18 to 29. Aseptic meningitis preferentially affects the very young and young adults, decreasing substantially with age in adulthood. The young are exposed to the infectious agents that cause meningitis in daycare and classroom settings. These settings are often supervised by working age adults, which could account for the increase in cases, and then subsequent decrease after retirement age.



**Aseptic Meningitis 5-Year Average Incidence Rate by Age Group and Gender, NYS (excluding NYC), 2011-2015**

Infants bear the highest burden of disease compared to any other age group in the population, with incidence rates as high as 50 to 70 per 100,000 children less than 1 year of age. Incidence rates are much lower in other age groups, between 1.5 and 6 per 100,000 population peaking in the 18-29 year old age group and decreasing in older persons.

Rates of meningitis are by far highest in the very young who are at greatest risk for developing complications from causative infectious viral agents. Aseptic meningitis is the most common infection of the central nervous system in younger populations.



**Aseptic Meningitis Case Counts by Month Diagnosed, NYS (excluding NYC), 2011-2015**

The incidence of infections from enteroviruses increases in the summer and early fall. Around half of aseptic meningitis cases are caused by these seasonal viruses. These viruses can spread through contact with saliva, mucus, or feces.

