





# **Chlamydia Surveillance 2012-2016**

Rhode Island Department of Health

Division of Preparedness, Response, Infectious  
Disease and Emergency Medical Services

Center for HIV, Hepatitis, STDs, and TB Epidemiology



# About Chlamydia

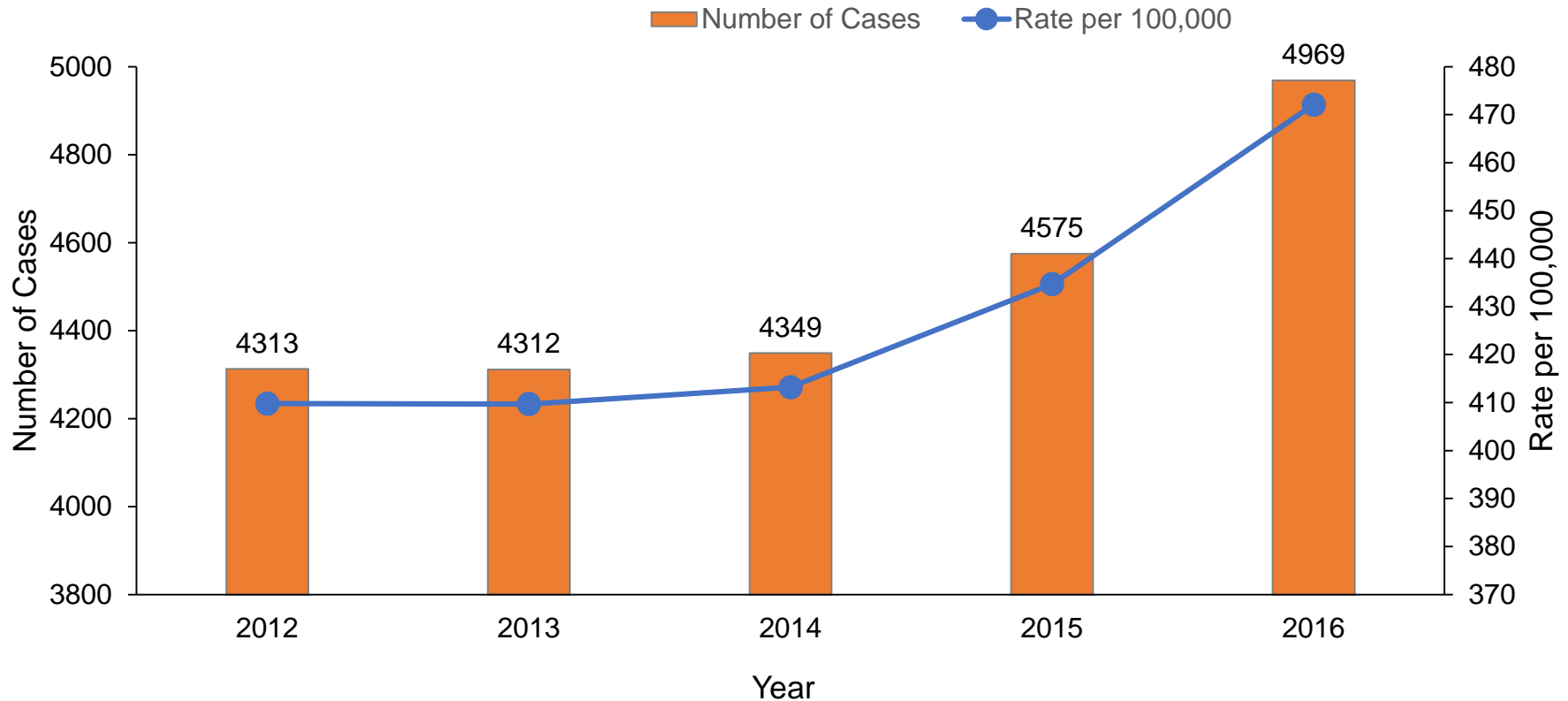
- Chlamydia is a bacteria that is transmitted through sexual contact.
- Most people with chlamydia are asymptomatic.
  - Symptoms in females may include burning when urinating and abnormal vaginal discharge.
  - Symptoms in males may include discharge from the penis, burning while urinating, and pain or swelling of the testicles.
- Sexually active young people and gay, bisexual, and other men who have sex with men are at a higher risk of getting chlamydia.
- Chlamydia is the most common notifiable disease in the United States.

# Data Overview, Chlamydia



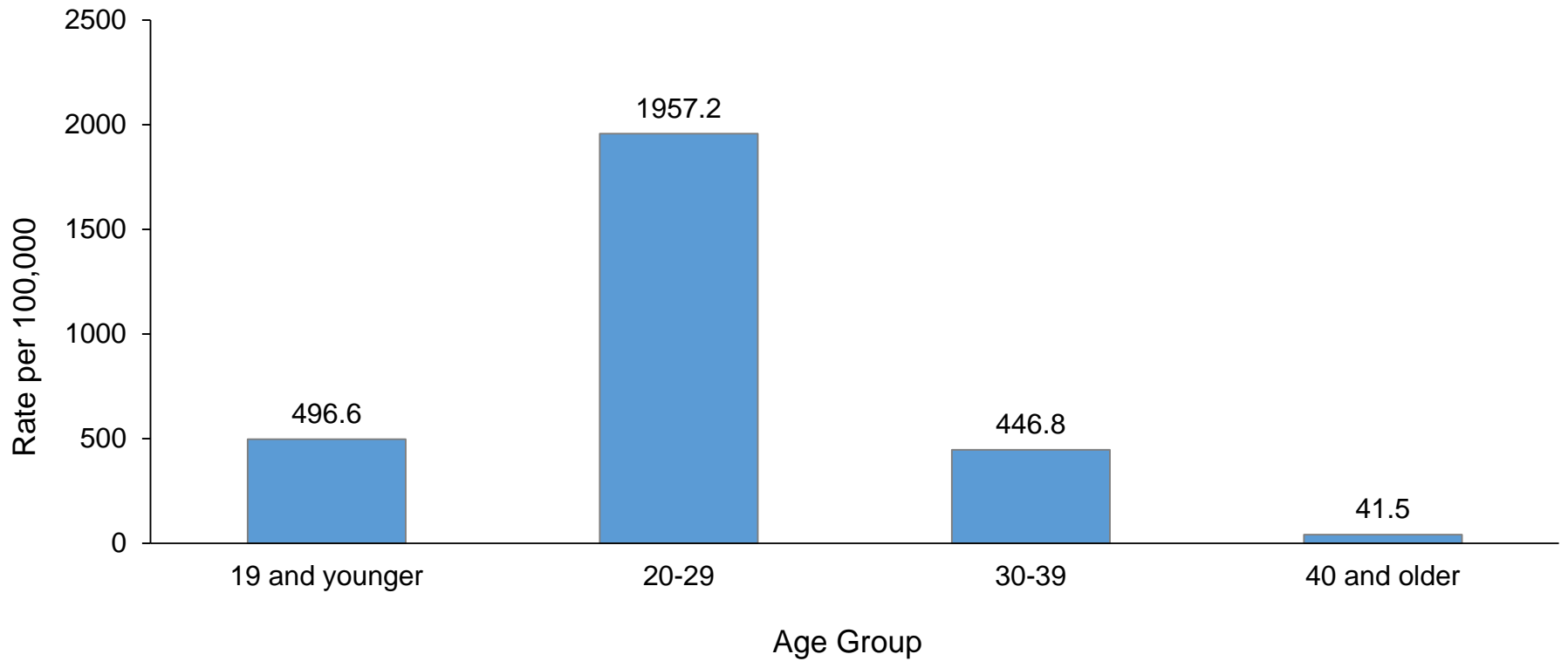
- There were 4,969 cases of chlamydia reported in 2016.
- In 2016, the incidence rate in Rhode Island was 472.1 cases per 100,000.
- Chlamydia rates are consistently higher in females than in males.
- The highest rates of chlamydia are seen in Providence County.
- The highest rates of chlamydia are in the 20-29 year old age group. This is consistent with trends over the past 5 years.

# Reported Cases of Chlamydia, Rhode Island, 2012-2016



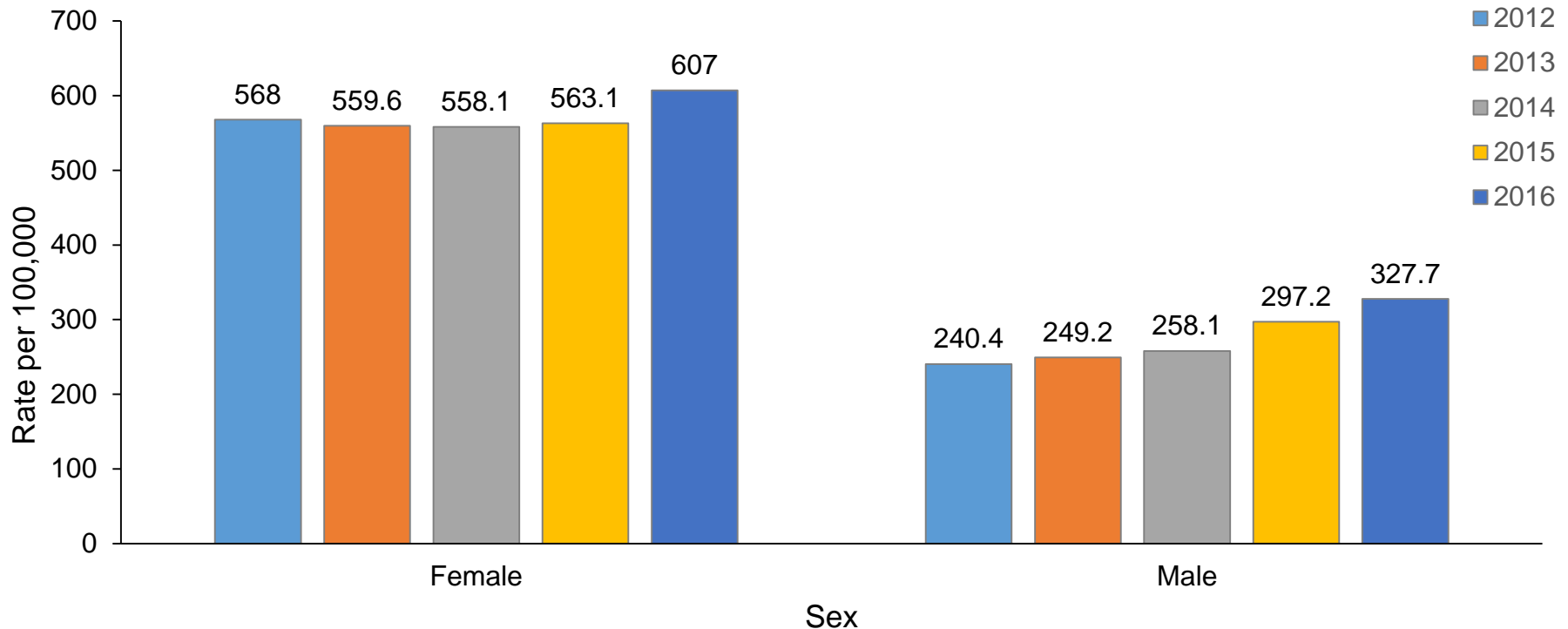
**Figure 1:** In 2016, there were 4,969 cases of chlamydia reported in Rhode Island, with a rate of 472.1 cases per 100,000 population. The number of chlamydia cases has increased since 2012.

# Rate of Chlamydia, Age Group, Rhode Island, 2016



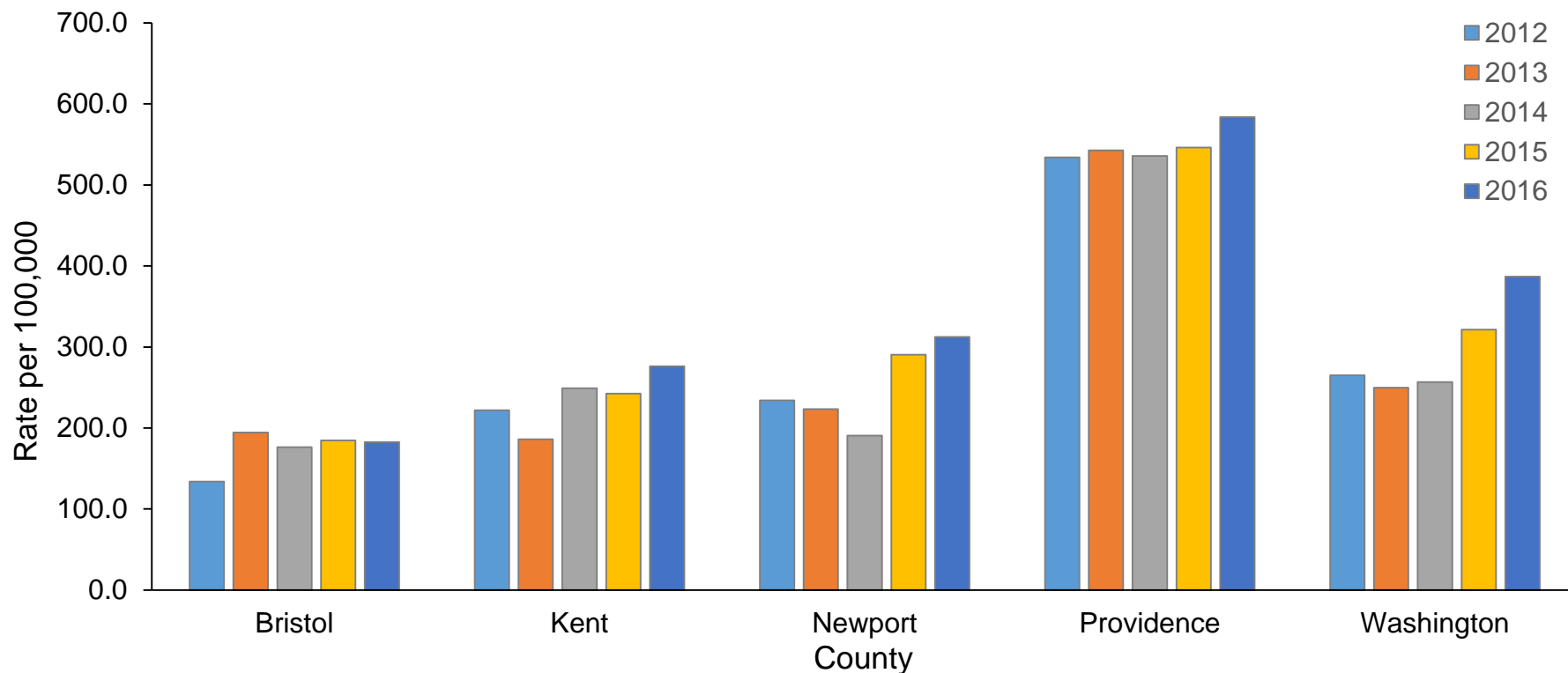
**Figure 2:** In 2016, chlamydia case rates were highest in the 20-29 age group, followed by 19 and younger.

# Rate of Chlamydia, Gender and Year, Rhode Island, 2012-2016



**Figure 3:** Higher rates of chlamydia were reported in females than in males over the last five years. In 2016, there were 3,303 cases in females and 1,666 cases in males. Rates in males have increased over the last five years. Nationally, rates of chlamydia are higher in females than males, likely due to screening practices.

# Rate of Chlamydia, County and Year, Rhode Island, 2012-2016



**Figure 4:** Between 2012 and 2016, chlamydia was reported at a higher rate in Providence County than in other counties.



# Chlamydia Frequency and Rates by Year, Rhode Island, 2012-2016



**Table 1. Frequency by Year**

|                        | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> |
|------------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Number of Cases</b> | 4313        | 4312        | 4349        | 4575        | 4969        |

**Table 2. Rate by Year**

|                         | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> |
|-------------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Rate per 100,000</b> | 409.8       | 409.7       | 413.2       | 434.7       | 472.1       |

# Chlamydia Frequency, Age Group and Year, Rhode Island, 2012-2016



**Table 3. Frequency by Age Group and Year**

|                     | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| <b>0-19</b>         | 1448        | 1228        | 1168        | 1046        | 1300        |
| <b>20-29</b>        | 2390        | 2509        | 2548        | 2797        | 2896        |
| <b>30-39</b>        | 363         | 446         | 499         | 559         | 558         |
| <b>40 and older</b> | 112         | 129         | 134         | 172         | 215         |
| <b>Unknown</b>      | 0           | 0           | 0           | 1           | 0           |
| <b>Total</b>        | 4313        | 4312        | 4349        | 4575        | 4969        |

# Chlamydia Rates, Age Group and Year, Rhode Island, 2012-2016



**Table 4. Rate by Age Group and Year**

|                     | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> |
|---------------------|-------------|-------------|-------------|-------------|-------------|
| <b>0-19</b>         | 553.2       | 469.1       | 446.2       | 399.6       | 496.6       |
| <b>20-29</b>        | 1615.2      | 1695.7      | 1722        | 1890.3      | 1957.2      |
| <b>30-39</b>        | 290.6       | 357.1       | 399.5       | 447.6       | 446.8       |
| <b>40 and older</b> | 21.3        | 24.9        | 25.9        | 33.2        | 41.5        |

# Chlamydia Frequency and Rates, Sex and Year, Rhode Island, 2012-2016



**Table 5. Frequency by Sex and Year**

|               | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> |
|---------------|-------------|-------------|-------------|-------------|-------------|
| <b>Female</b> | 3091        | 3045        | 3037        | 3064        | 3303        |
| <b>Male</b>   | 1222        | 1267        | 1312        | 1511        | 1666        |
| <b>Total</b>  | 4313        | 4312        | 4349        | 4575        | 4969        |

**Table 6. Rate by Sex and Year**

|               | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> |
|---------------|-------------|-------------|-------------|-------------|-------------|
| <b>Female</b> | 568.0       | 559.6       | 558.1       | 563.1       | 607.0       |
| <b>Male</b>   | 240.4       | 249.2       | 258.1       | 297.2       | 327.7       |

# Chlamydia Frequency, County and Year, Rhode Island, 2012-2016



**Table 7. Frequency by County and Year**

|                   | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> |
|-------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Bristol</b>    | 67          | 97          | 88          | 92          | 91          |
| <b>Kent</b>       | 369         | 309         | 414         | 403         | 459         |
| <b>Newport</b>    | 194         | 185         | 158         | 241         | 259         |
| <b>Providence</b> | 3347        | 3401        | 3357        | 3423        | 3658        |
| <b>Washington</b> | 336         | 317         | 326         | 408         | 491         |
| <b>Unknown</b>    | 0           | 3           | 6           | 8           | 11          |
| <b>All</b>        | 4313        | 4312        | 4349        | 4575        | 4969        |

# Chlamydia Rates by County and Year, Rhode Island, 2012-2016



**Table 8. Rate by County and Year**

|                   | <b>2012</b> | <b>2013</b> | <b>2014</b> | <b>2015</b> | <b>2016</b> |
|-------------------|-------------|-------------|-------------|-------------|-------------|
| <b>Bristol</b>    | 134.0       | 194.5       | 176.4       | 184.5       | 182.5       |
| <b>Kent</b>       | 222.0       | 186.0       | 249.2       | 242.5       | 276.2       |
| <b>Newport</b>    | 234.0       | 223.2       | 190.6       | 290.6       | 312.5       |
| <b>Providence</b> | 534.0       | 542.7       | 535.7       | 546.2       | 583.7       |
| <b>Washington</b> | 265.0       | 249.6       | 256.7       | 321.3       | 386.7       |



# Notes on Data

- Case counts include only patients classified as confirmed cases.
- Rate is calculated per 100,000 population. The population denominator is based on 2010 US Census Population.



# References

- <http://www.cdc.gov/std/chlamydia/stdfact-chlamydia.htm>
- <https://www.cdc.gov/std/stats16/chlamydia.htm>