





# **Gonorrhea Surveillance 2011-2015**

Rhode Island Department of Health

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

Center for HIV, Hepatitis, STDs, and TB Epidemiology



# About Gonorrhea

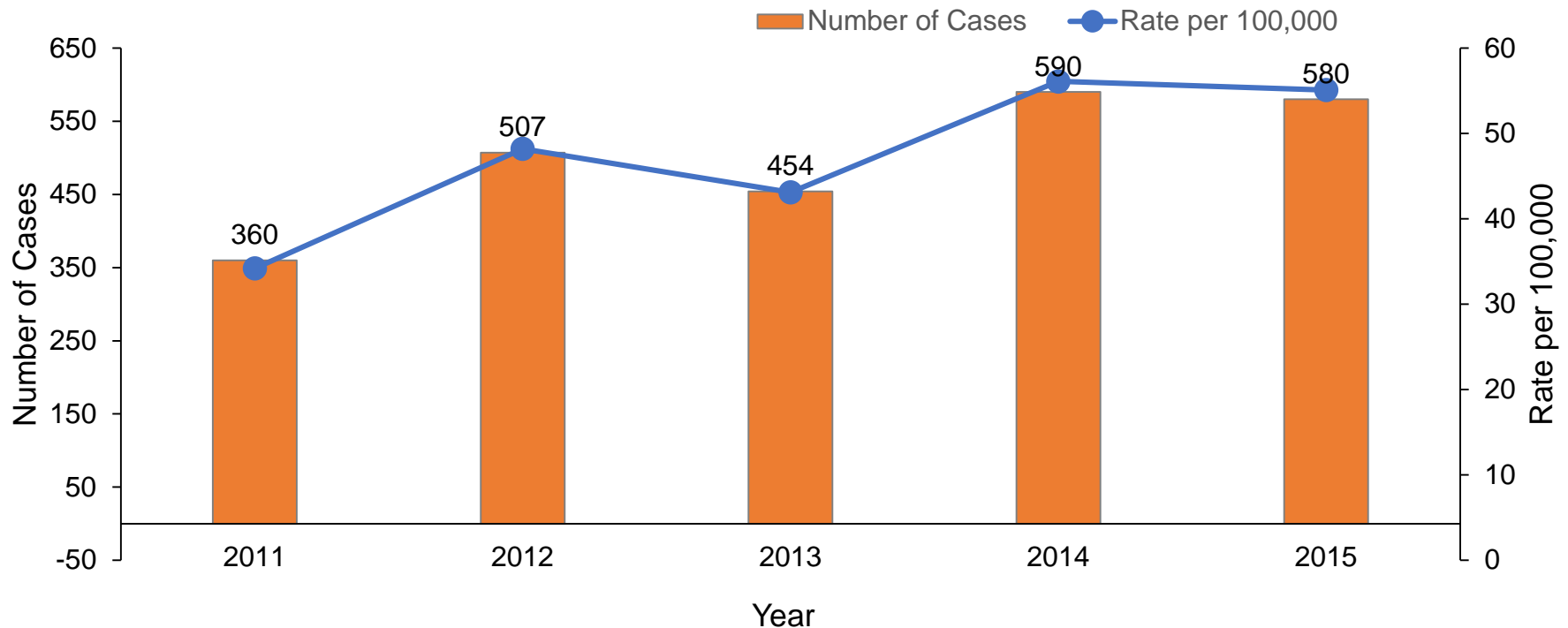
- Gonorrhea is a bacteria that is spread through sexual contact.
- Men may be asymptomatic or have any of the following symptoms: burning when urinating, discharge from the penis, or painful or swollen testicles.
- Most women with gonorrhea are asymptomatic.
- Anyone who is sexually active is at risk for gonorrhea, especially gay, bisexual, and other men who have sex with men; females younger than 25 years old; or older women with risk factors such as new/multiple sex partners.

# Data Overview, Gonorrhea



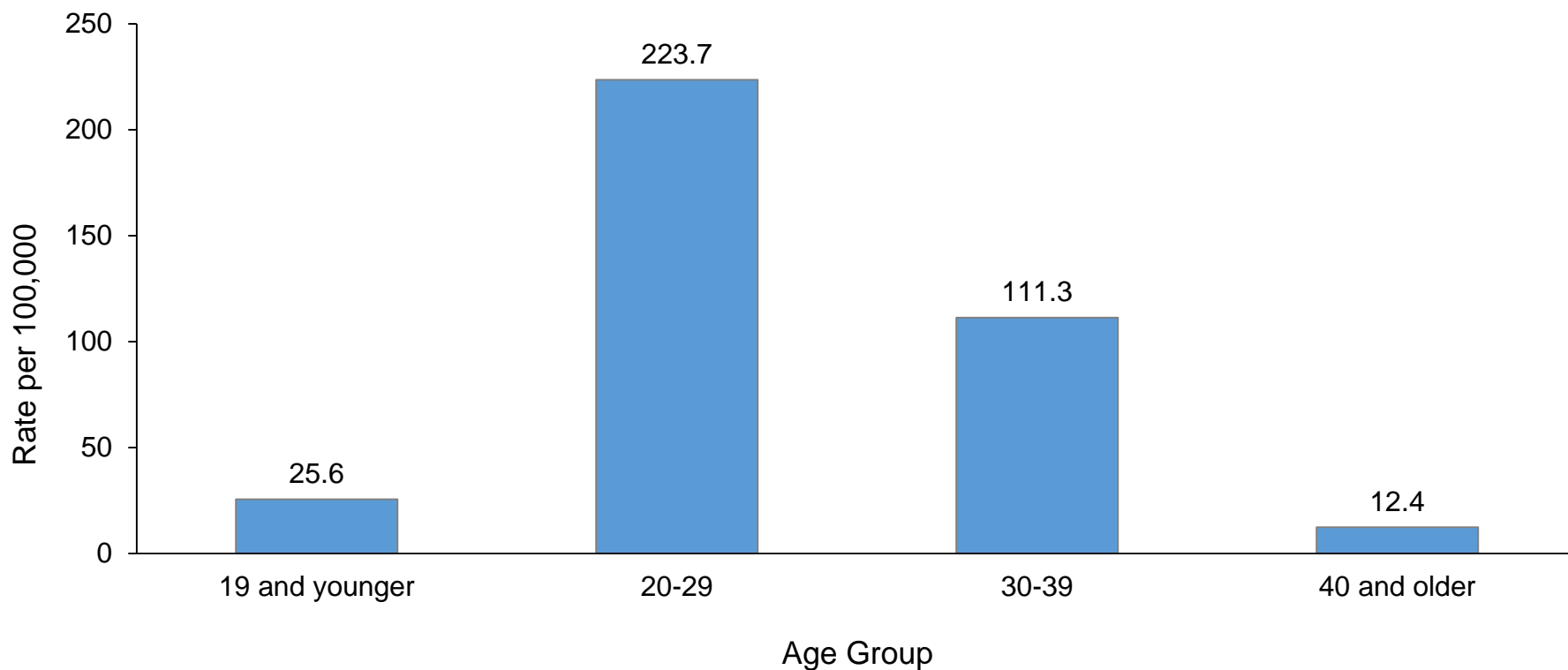
- There were 580 cases of gonorrhea reported in 2015.
- The incidence rate of gonorrhea was 55.1 cases per 100,000 in 2015.
- The number of gonorrhea cases reported in RI has increased since 2011.
- The highest rates of gonorrhea are reported in Providence County.

# Reported Cases of Gonorrhea, Rhode Island, 2011-2015



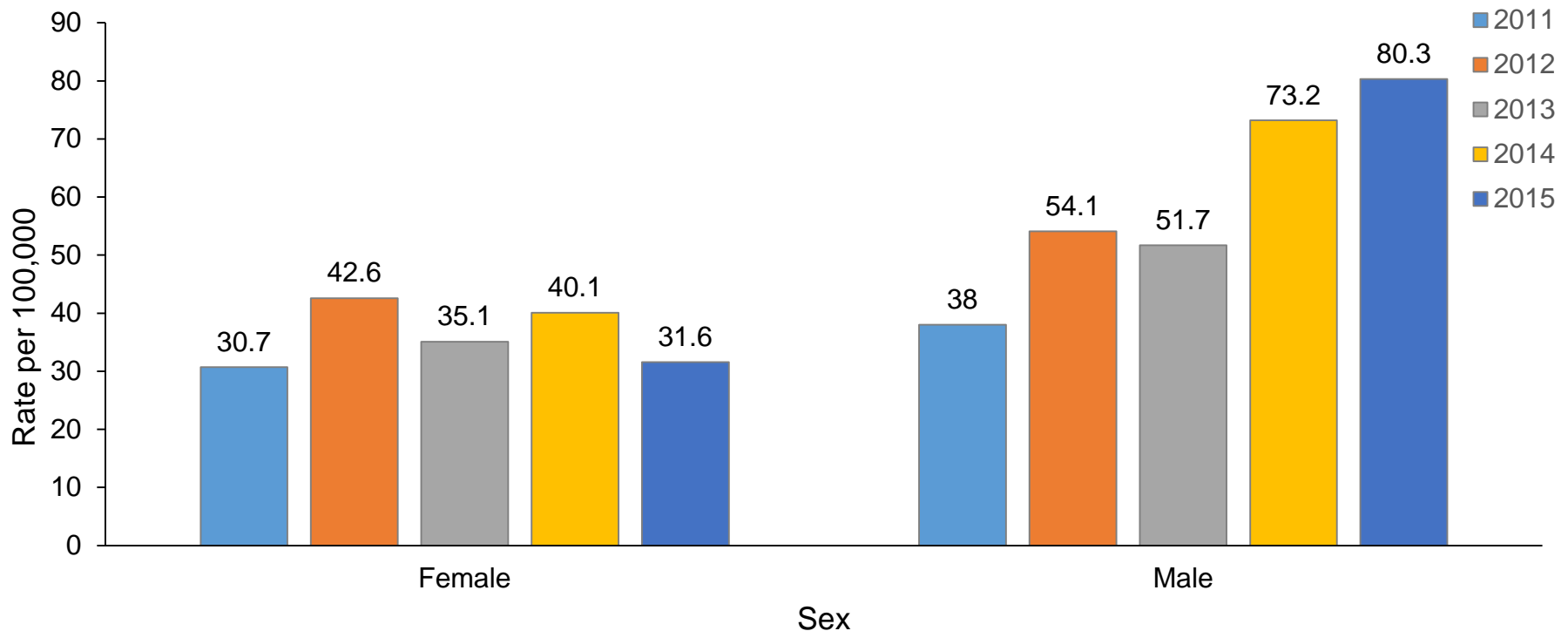
**Figure 1:** In 2015, there were 580 cases of gonorrhea reported in RI, with a rate of 55.1 cases per 100,000 population. Gonorrhea rates have increased in RI since 2011. This is similar to national trends, showing an increase in gonorrhea cases over time.

# Rate of Gonorrhea, Age Group, Rhode Island, 2015



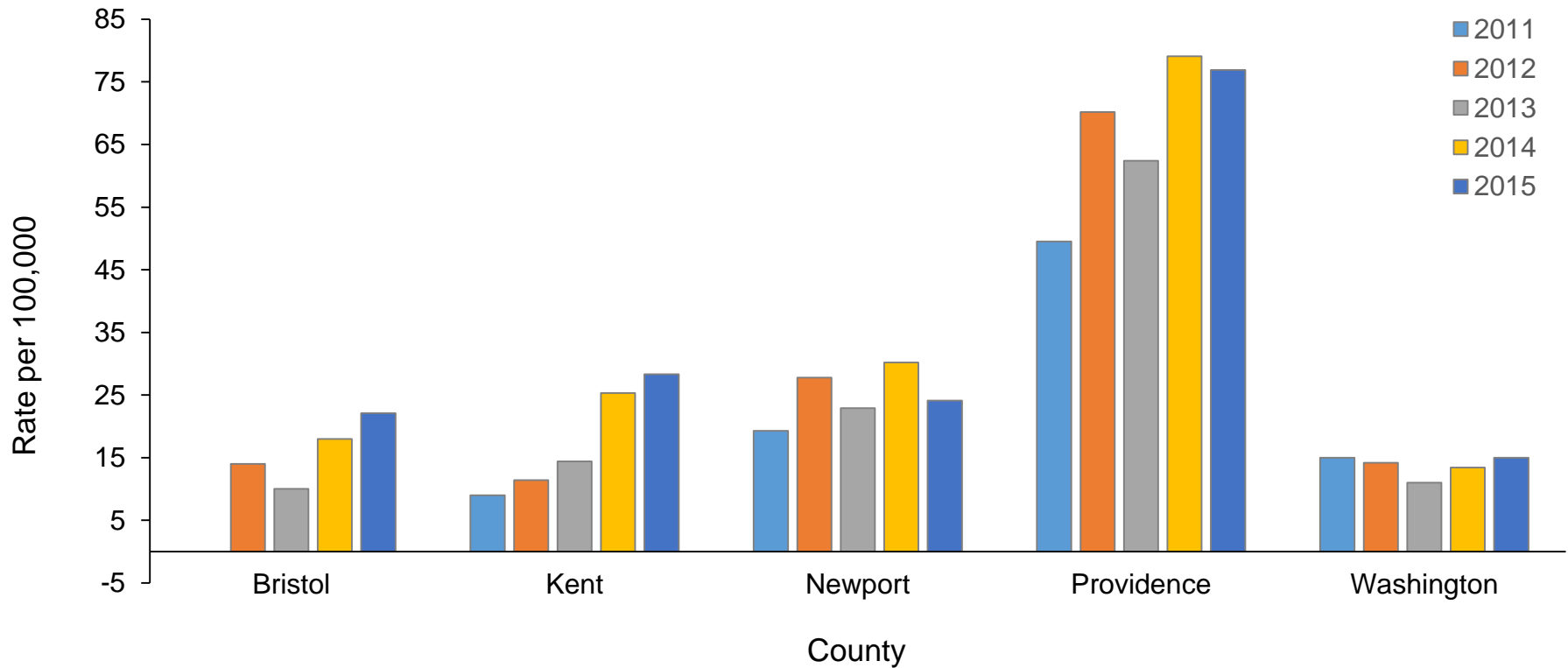
**Figure 2:** In 2015, the highest case rates were among ages 20-29, followed by 30-39 year olds.

# Rate of Gonorrhea, Gender and Year, Rhode Island, 2011-2015



**Figure 3:** Gonorrhea rates have been higher in males than in females over the past five years. Nationally, the gonorrhea rate is also higher in males, particularly in gay, bisexual, and other men who have sex with men.

# Rate of Gonorrhea, County and Year, Rhode Island, 2011-2015



**Figure 4:** Between 2011 and 2015, gonorrhea rates were highest in Providence County.



# Gonorrhea Frequency and Rates by Year, Rhode Island, 2011-2015



**Table 1. Frequency by Year**

	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Number of Cases</b>	360	507	454	590	580

**Table 2. Rate by Year**

	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Rate per 100,000</b>	34.2	48.2	43.1	56.1	55.1

# Gonorrhea Frequency, Age Group and Year, Rhode Island, 2011-2015



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

	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>0-19</b>	85	118	76	68	67
<b>20-29</b>	187	265	229	287	331
<b>30-39</b>	52	72	85	139	118
<b>40 and older</b>	36	52	64	96	64
<b>Total</b>	360	507	454	590	580

# Gonorrhea Rates, Age Group and Year, Rhode Island, 2011-2015



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

	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>0-19</b>	32.5	45.1	29	26	25.6
<b>20-29</b>	126.4	179.1	154.8	194	223.7
<b>30-39</b>	41.6	57.6	68.1	111.3	111.3
<b>40 and older</b>	7	10	12.4	18.5	12.4

# Gonorrhea Frequency and Rates, Sex and Year, Rhode Island, 2011-2015



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

	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Female</b>	167	232	191	218	172
<b>Male</b>	193	275	263	372	408
<b>Total</b>	360	507	454	590	580

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

	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Female</b>	30.7	42.6	35.1	40.1	31.6
<b>Male</b>	38.0	54.1	51.7	73.2	80.3

# Gonorrhea Frequency, County and Year, Rhode Island, 2011-2015



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

	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Bristol</b>	0	7	5	9	11
<b>Kent</b>	15	19	24	42	47
<b>Newport</b>	16	23	19	25	20
<b>Providence</b>	310	440	391	496	482
<b>Washington</b>	19	18	14	17	19
<b>Unknown</b>	0	0	1	1	1
<b>All</b>	360	507	454	590	580

# Gonorrhea Rates by County and Year, Rhode Island, 2011-2015



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

	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Bristol</b>	0.0	14.0	10.0	18.0	22.1
<b>Kent</b>	9.0	11.4	14.4	25.3	28.3
<b>Newport</b>	19.3	27.8	22.9	30.2	24.1
<b>Providence</b>	49.5	70.2	62.4	79.1	76.9
<b>Washington</b>	15.0	14.2	11.0	13.4	15.0



# 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/gonorrhea/stdfact-gonorrhea.htm>
- <http://www.cdc.gov/std/stats15/gonorrhea.htm>