





Gonorrhea 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 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 705 cases of gonorrhea reported in 2016.
- The incidence rate of gonorrhea was 67.0 cases per 100,000 in 2016.
- The number of gonorrhea cases reported in Rhode Island has increased since 2012.
- The highest rates of gonorrhea are reported in Providence County.

Reported Cases of Gonorrhea, Rhode Island, 2012-2016

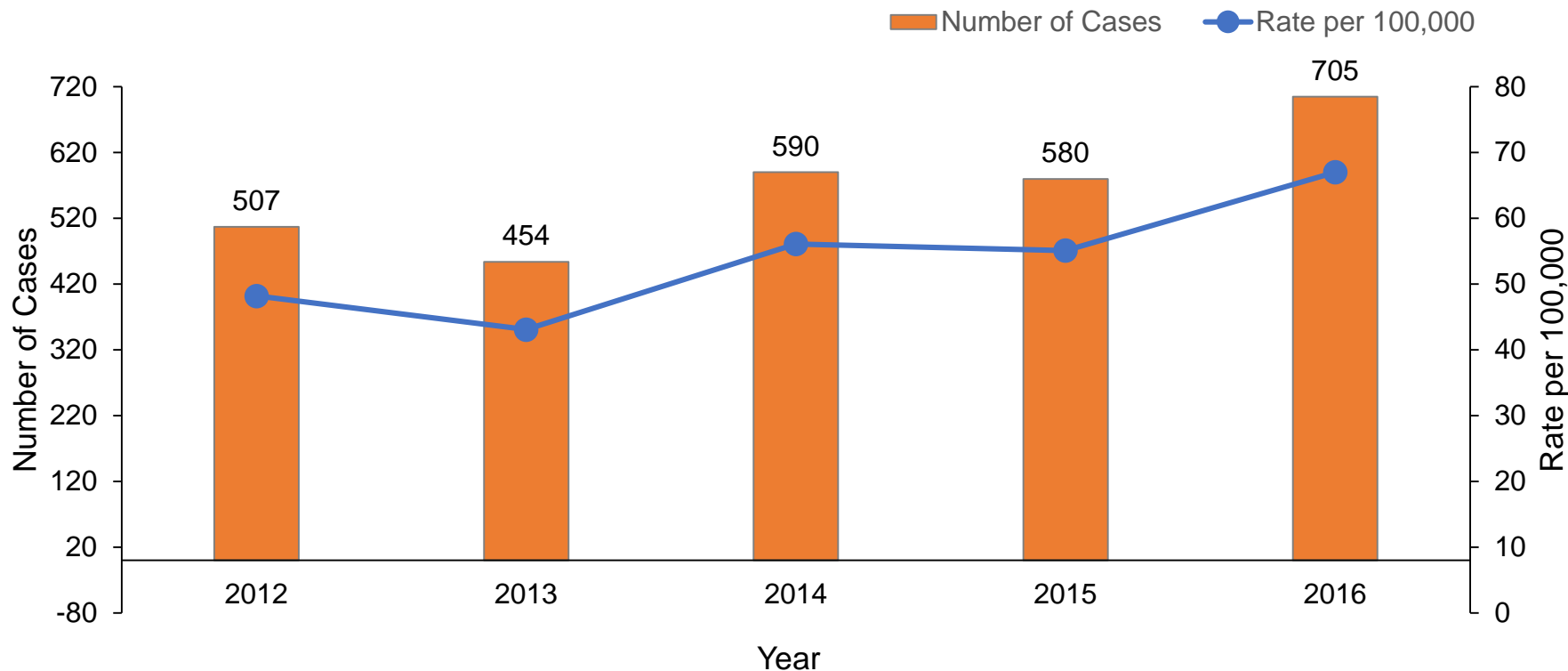


Figure 1: In 2016, there were 705 cases of gonorrhea reported in Rhode Island, with a rate of 67 cases per 100,000 population. Gonorrhea rates have increased in Rhode Island since 2012. This is similar to national trends, showing an increase in gonorrhea cases over time.

Rate of Gonorrhea, Age Group, Rhode Island, 2016

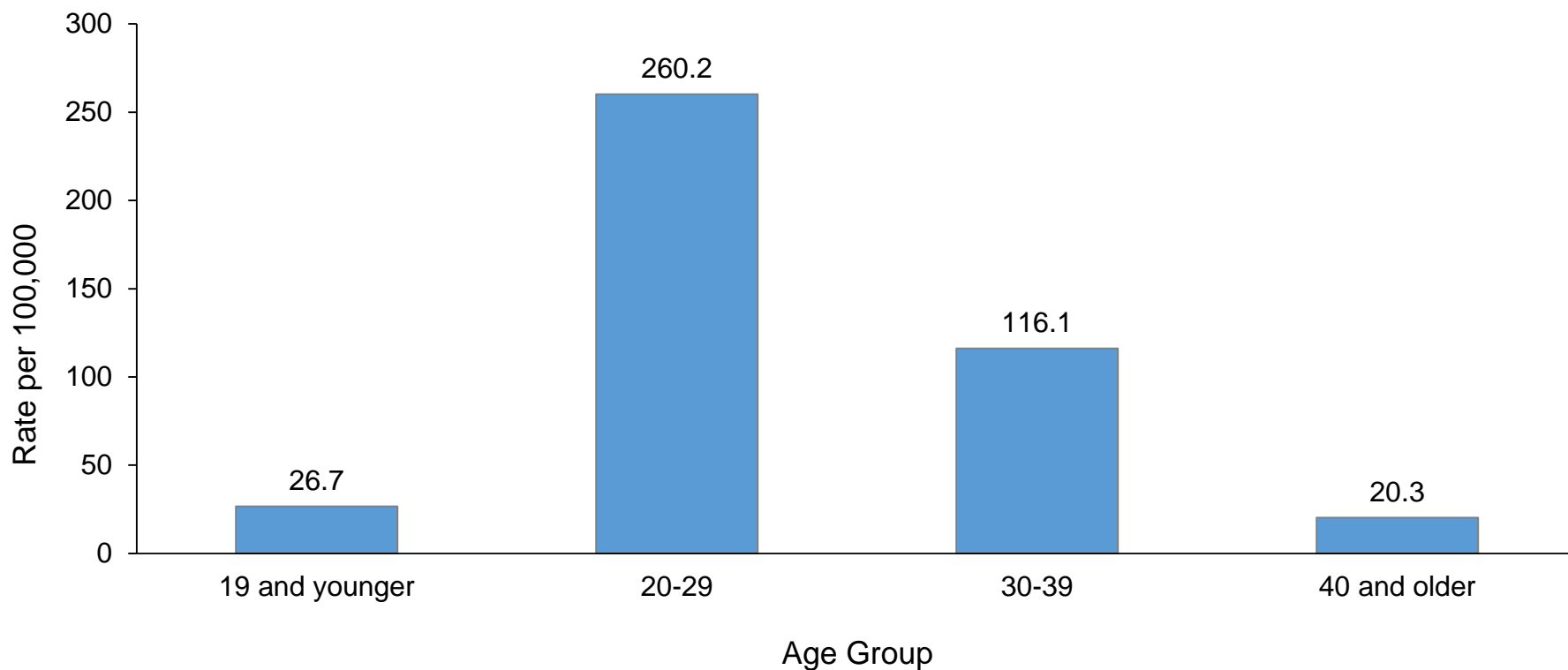


Figure 2: In 2015, the highest case rates were among ages 20-29, followed by 30-39 year olds.

Rate of Gonorrhea, Gender and Year, Rhode Island, 2012-2016

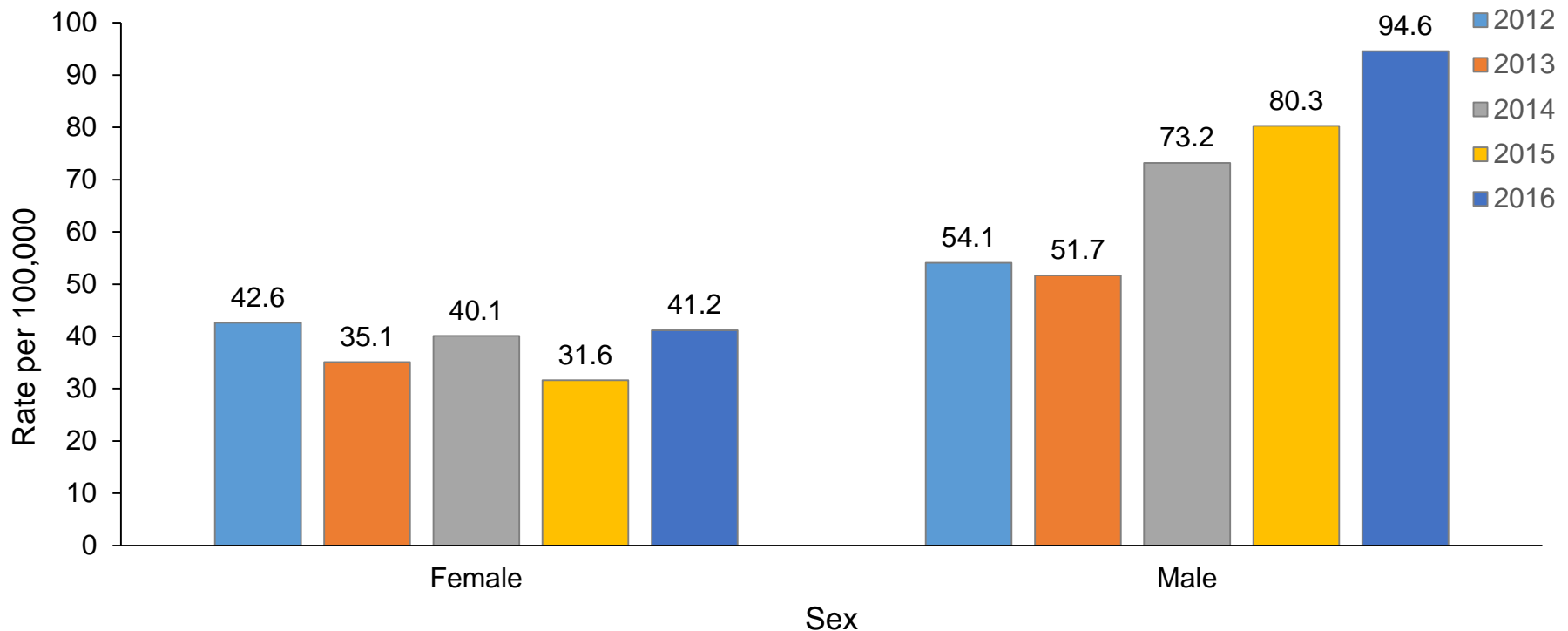


Figure 3: Gonorrhea rates have been higher in males than in females over the past five years. Nationally, the gonorrhea rate is also higher in males, particularly in gay, bisexual, and other men who have sex with men.

Rate of Gonorrhea, County and Year, Rhode Island, 2012-2016

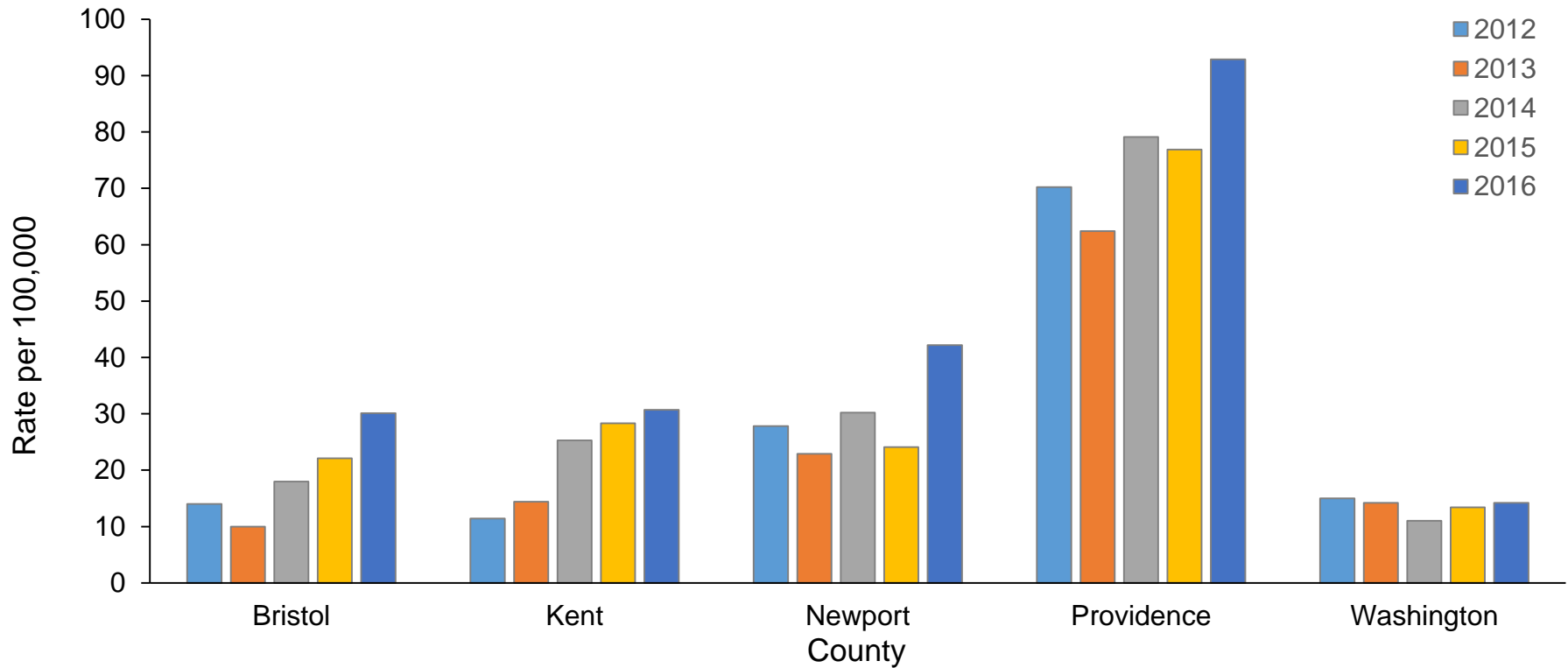


Figure 4: Between 2012 and 2016, gonorrhea rates were highest in Providence County.

Gonorrhea Frequency and Rates by Year, Rhode Island, 2012-2016



Table 1. Frequency by Year

	2012	2013	2014	2015	2016
Number of Cases	507	454	590	580	705

Table 2. Rate by Year

	2012	2013	2014	2015	2016
Rate per 100,000	48.2	43.1	56.1	55.1	67.0

Gonorrhea Frequency, Age Group and Year, Rhode Island, 2012-2016



Table 3. Frequency by Age Group and Year

	2012	2013	2014	2015	2016
0-19	118	76	68	67	70
20-29	265	229	287	331	385
30-39	72	85	139	118	145
40 and older	52	64	96	64	105
Total	507	454	590	580	705

Gonorrhea Rates, Age Group and Year, Rhode Island, 2012-2016



Table 4. Rate by Age Group and Year

	2012	2013	2014	2015	2016
0-19	45.1	29	26	25.6	26.7
20-29	179.1	154.8	194	223.7	260.2
30-39	57.6	68.1	111.3	111.3	116.1
40 and older	10	12.4	18.5	12.4	20.3

Gonorrhea Frequency and Rates, Sex and Year, Rhode Island, 2012-2016



Table 5. Frequency by Sex and Year

	2012	2013	2014	2015	2016
Female	232	191	218	172	224
Male	275	263	372	408	481
Total	507	454	590	580	705

Table 6. Rate by Sex and Year

	2012	2013	2014	2015	2016
Female	42.6	35.1	40.1	31.6	41.2
Male	54.1	51.7	73.2	80.3	94.6

Gonorrhea Frequency, County and Year, Rhode Island, 2012-2016



Table 7. Frequency by County and Year

	2012	2013	2014	2015	2016
Bristol	7	5	9	11	15
Kent	19	24	42	47	51
Newport	23	19	25	20	35
Providence	440	391	496	482	582
Washington	18	14	17	19	18
Unknown	0	1	1	1	4
All	507	454	590	580	705

Gonorrhea Rates by County and Year, Rhode Island, 2012-2016



Table 8. Rate by County and Year

	2012	2013	2014	2015	2016
Bristol	14.0	10.0	18.0	22.1	30.1
Kent	11.4	14.4	25.3	28.3	39.7
Newport	27.8	22.9	30.2	24.1	42.2
Providence	70.2	62.4	79.1	76.9	92.8
Washington	14.2	11.0	13.4	15.0	14.2



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>
- <https://www.cdc.gov/std/stats16/gonorrhea.htm>