
RHODE ISLAND
DEPARTMENT OF HEALTH

Infectious Syphilis Surveillance 2010-2014

Rhode Island Department of Health

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

Center for HIV, Hepatitis, STD, and TB

Summary: Infectious Syphilis in RI, 2010-2014

- Both rates and reported infectious syphilis cases reached a five-year high in 2014.
- Rates of infectious syphilis are highest in people ages 25 - 29 and 30 - 34.
- Rates in males are much higher than in females, with five-year highs for both males and females in 2014.
- Rates of infectious syphilis are highest in Providence County, and 35% of cases are in Providence residents.

Figure 1: Reported Cases of Infectious Syphilis by Year, RI, 2010-2014

Figure 1: Both rates and reported infectious syphilis cases reached a five-year high in 2014. The number of cases increased by 79% from 2013 to 2014.

Figure 2: Rate of Infectious Syphilis by Age Group, RI, 2014

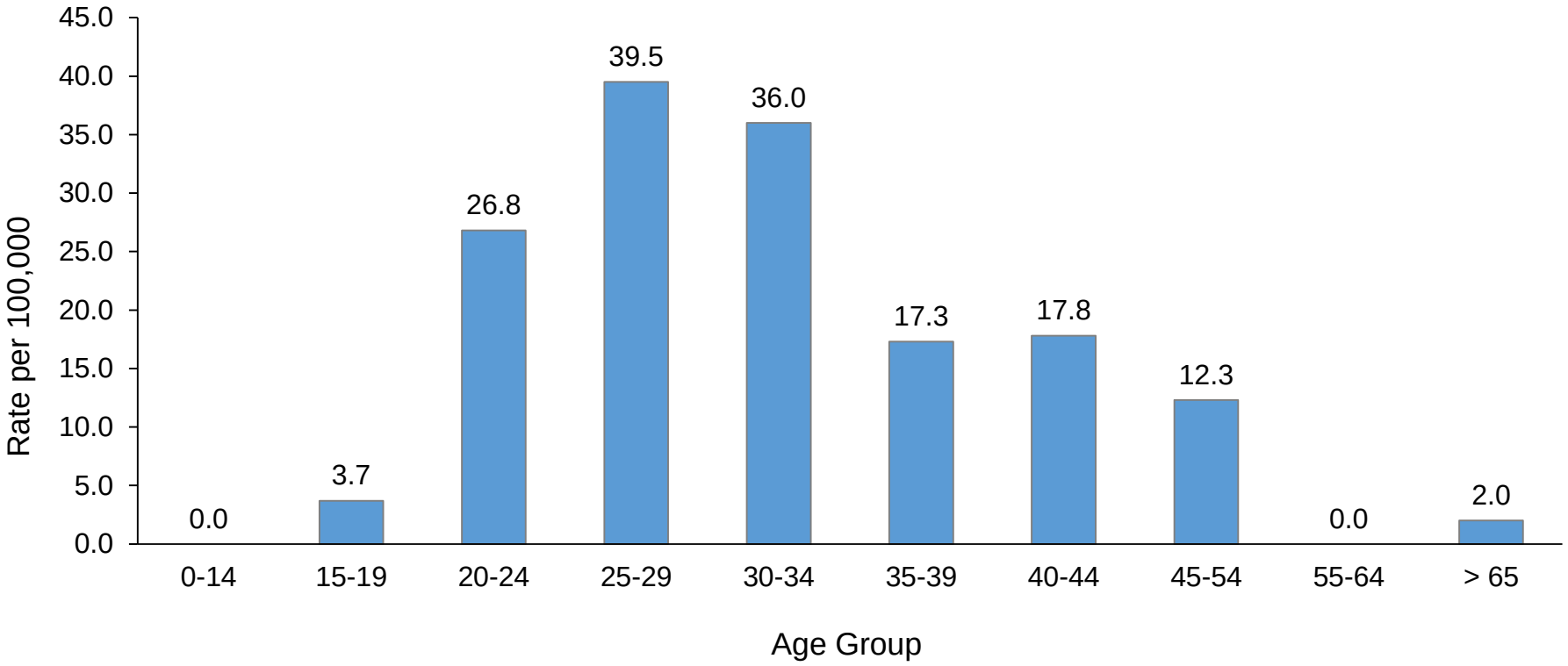

Figure 2: Rates of infectious syphilis are highest in people ages 25 - 29 and 30 - 34.

Figure 3: Rate of Infectious Syphilis by Sex and Year, RI, 2010-2014

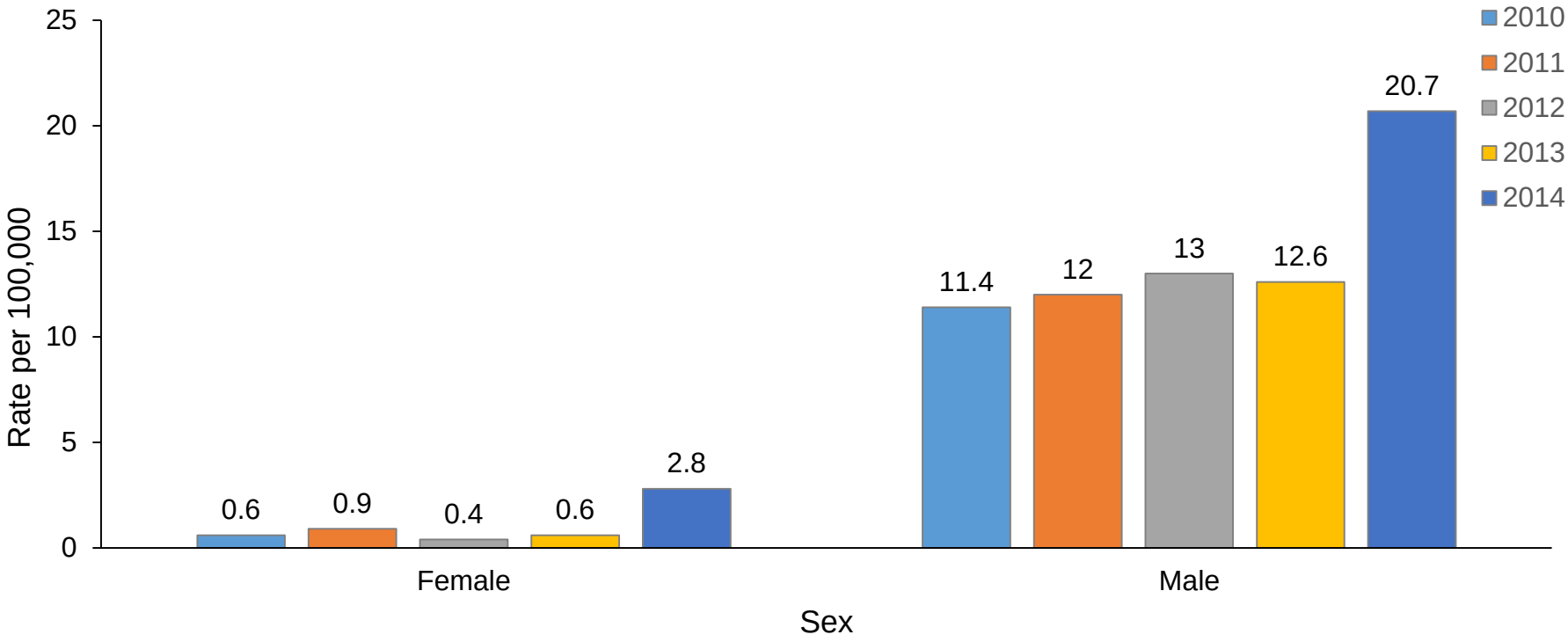

Figure 3: Rates in males are much higher than in females, with five-year highs for both males and females in 2014.

Figure 4: Rate of Infectious Syphilis by County and Year, RI, 2010-2014

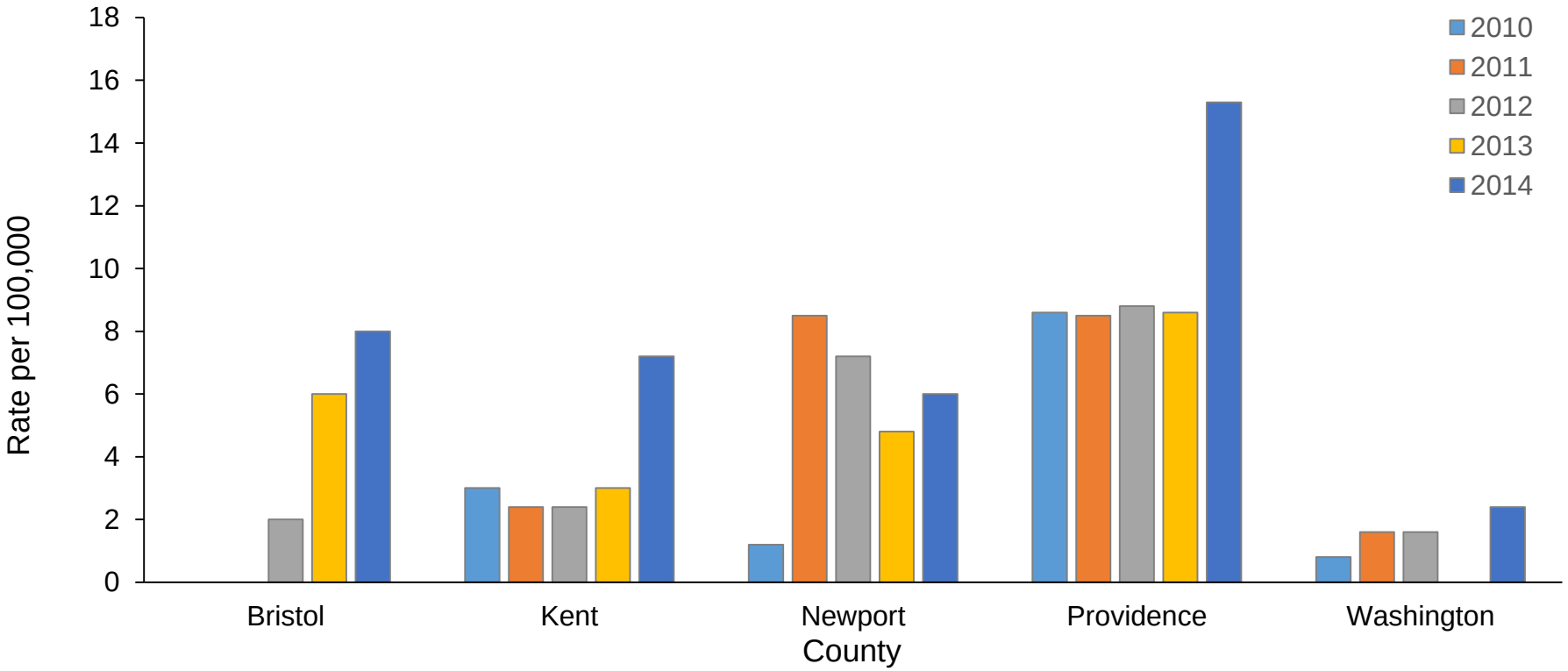

Figure 4: Rates of infectious syphilis are highest in Providence County, with 35% of cases in Providence residents. In 2014, rates reached a five-year high in Providence, Bristol, Kent, and Washington Counties.

Infectious Syphilis Frequency and Rates by Year, RI, 2010-2014

Table 1. Frequency by Year					
	2010	**2011**	**2012**	**2013**	**2014**
Number of Cases	61	66	68	67	120

Table 2. Rate by Year					
	2010	**2011**	**2012**	**2013**	**2014**
Rate per 100,000	5.8	6.3	6.5	6.4	11.4

Infectious Syphilis Frequency by Age Group and Year, RI, 2010-2014

Table 3. Frequency by Age Group and Year					
	2010	**2011**	**2012**	**2013**	**2014**
0-14	0	0	0	0	0
15-19	<5	<5	<5	<5	<5
20-24	9	5	9	10	22
25-29	7	7	13	9	26
30-34	9	12	6	8	22
35-39	7	10	11	7	11
40-44	7	10	11	10	13
45-54	18	12	12	17	20
55-64	<5	9	<5	<5	0
≥ 65	<5	0	0	0	<5
Total	61	66	68	67	120

Infectious Syphilis Rates by Age Group and Year, RI, 2010-2014

Table 4. Rate by Age Group and Year					
	2010	**2011**	**2012**	**2013**	**2014**
0-14	0.0	0.0	0.0	0.0	0.0
15-19	2.5	1.3	5.0	2.5	3.7
20-24	11.0	6.1	11.0	12.2	26.8
25-29	10.6	10.6	19.8	13.7	39.5
30-34	14.7	19.6	9.8	13.1	36.0
35-39	11.0	15.7	17.3	11.0	17.3
40-44	9.6	13.7	15.0	13.7	17.8
45-54	11.1	7.4	7.4	10.5	12.3
55-64	0.8	6.9	1.5	3.1	0.0
≥ 65	0.7	0.0	0.0	0.0	2.0

Infectious Syphilis Frequency and Rates by Sex and Year, RI, 2010-2014

Table 5. Frequency by Sex and Year					
	2010	**2011**	**2012**	**2013**	**2014**
Female	3	5	2	3	15
Male	58	61	66	64	105
Total	61	66	68	67	120

Table 6. Rate by Sex and Year					
	2010	**2011**	**2012**	**2013**	**2014**
Female	0.6	0.9	0.4	0.6	2.8
Male	11.4	12.0	13.0	12.6	20.7

Infectious Syphilis Frequency By County and Year, RI, 2010-2014

Table 7. Frequency by County and Year					
	2010	**2011**	**2012**	**2013**	**2014**
Bristol	0	0	<5	<5	<5
Kent	5	<5	<5	5	12
Newport	<5	7	6	<5	5
Providence	54	53	55	54	96
Washington	<5	<5	<5	0	<5
Unknown	0	0	0	<5	0
All	61	66	68	67	120

Infectious Syphilis Rates by County and Year, RI, 2010-2014

Table 8. Rate by County and Year					
	2010	**2011**	**2012**	**2013**	**2014**
Bristol	0.0	0.0	2.0	6.0	8.0
Kent	3.0	2.4	2.4	3.0	7.2
Newport	1.2	8.5	7.2	4.8	6.0
Providence	8.6	8.5	8.8	8.6	15.3
Washington	0.8	1.6	1.6	0.0	2.4

Notes on Data

- Infectious syphilis includes primary, secondary, and early latent stages.
- Rate is calculated per 100,000 people. The population denominator is based on 2010 US Census Population.