

Sexually Transmitted Infections Surveillance Report New York State

2017

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This document summarizes 2017 surveillance data for the three major notifiable sexually transmitted infections (STIs) in New York State (NYS):

- syphilis;
- gonorrhea; and
- chlamydia.

Healthcare providers and laboratories are required to report suspected or confirmed diagnoses of communicable diseases, including STIs, under [NYS Public Health Law 2101 and 2102](#). More detailed information on data collected are provided in the Technical Notes.

In 2017, reported diagnoses of chlamydia and gonorrhea increased for the fourth year in a row, while primary and secondary syphilis declined for the first time after five years of consecutive increases. This decline was limited to New York City. Based on data from the [Centers for Disease Control and Prevention](#) (CDC) New York ranked 9th, 21st, and 6th among all states in 2017 for the total number of diagnoses of chlamydia, gonorrhea, and primary and secondary syphilis, respectively, and 28th for diagnoses of congenital syphilis. The highest rates of STIs in NYS continued to be seen in young people, non-Hispanic black individuals and gay, bisexual and other men who have sex with men.

According to data in this report, chlamydia continued to be the most common reportable STI in NYS with 116,843 diagnoses, a 7% increase over 2016 and the highest number of diagnoses since chlamydia became reportable in 2000. The highest rates were among females 15-24 years of age.

Gonorrhea diagnoses increased 17% in 2017, to 34,111 reported diagnoses. The rate increase among males was higher than females (21% compared to 11%); by age group, rates were highest among males 20-29, and among females 15-24.

Primary and secondary syphilis diagnoses declined from 2016 to 2017 compared to a national percent increase of 10%. Diagnoses among men accounted for 94% of primary and secondary syphilis diagnoses. 86% of males diagnosed with primary or secondary syphilis who provided information on sex partners reported sex with other males. Although males accounted for the vast majority of diagnoses, rates of primary and secondary syphilis among females almost tripled since 2014. In 2017, 15 diagnoses of congenital syphilis were reported statewide, a 15% increase compared to 2016.

These data represent only a portion of the true burden of STIs in NYS. Many cases of syphilis, gonorrhea and chlamydia go undiagnosed and unreported, and several highly prevalent STIs, such as human papilloma virus (HPV), genital herpes, and trichomoniasis, are not reported at all. This report provides important information about the burden of notifiable bacterial STIs in NYS.

[Syphilis](#) is an STI caused by the bacterium *Treponema pallidum*, and is spread through vaginal, anal, and oral sex. Pregnant females with syphilis can also pass the infection to their unborn children. This is called congenital syphilis.

Syphilis is generally classified in four stages that occur sequentially (primary, secondary, latent, and late/tertiary). Primary syphilis is characterized by a single painless skin ulcer (sore), though there may be multiple sores. The sore generally appears within a few weeks of exposure, usually on or around the genitals or anus, or on the lips, or in the mouth. Transmission occurs through direct contact with a syphilitic sore during sex. After the sore heals (sore will heal without treatment), the infection progresses to secondary syphilis. Secondary syphilis presents as skin rashes and lesions on mucous membranes, generally within six weeks after the primary sore or sores heal. Symptoms resolve even without treatment and the infection enters the latent stage. During the early latent stage there may be intermittent flare-ups of symptoms, alongside periods with no outward symptoms. Syphilis increases the risk for contracting other STIs like HIV. Left untreated, the infection may progress to late/tertiary stage, beginning three or more years after infection. In this stage bacteria, while not sexually transmittable, can spread throughout the body, leading to serious illness or death.

Syphilis can be cured with [antibiotics](#), though any damage to the body that has already occurred cannot be undone. Dosage and length of treatment will depend upon the syphilis stage at diagnosis and whether there are clinical manifestations.

Syphilis data presented in this surveillance report represent confirmed or probable cases according to the [CDC case definitions](#) for syphilis. The first two stages are presented combined as “Primary and Secondary Syphilis,” and represent the most infectious stages of syphilis. “Early Syphilis” combines primary and secondary syphilis cases with cases diagnosed with syphilis within the first year of infection that had progressed past the primary and secondary stages (aka “Early Latent”). Individuals categorized as “Early Latent” may or may not have been experiencing clinical manifestations of syphilis at the time of their diagnosis.

Congenital syphilis data presented in this surveillance report represent confirmed or probable cases according to the [CDC case definition](#).

[Gonorrhea](#) is an STI caused by the bacterium *Neisseria gonorrhoeae*, and is spread through oral, anal, and vaginal sex. Gonorrhea can also be passed from mother to infant during vaginal delivery. Vaginal symptoms, which usually begin within 5-60 days of transmission, may include unusual discharge, spotting, and inflammation of the vulva. Penile symptoms can include thick discharge from the urethra, painful urination, and redness and swelling of the urethral opening. People may experience infections of the throat from oral sex, or rectum from anal sex. If left untreated, gonorrhea may progress to an infection of the female reproductive organs called pelvic inflammatory disease (PID). PID can cause scar tissue and abscesses to form increasing the risk of infertility, miscarriage, and ectopic pregnancy. In rare cases, untreated gonorrhea may cause severe pain and swelling in the testicles, resulting in sterility. Gonorrhea can spread throughout the body, and increase the risk for contracting other STIs like HIV.

Gonorrhea can be cured with [antibiotics](#); however, [antimicrobial resistant gonorrhea](#) is increasingly a concern. Currently, the CDC recommends dual therapy treatment with ceftriaxone and azithromycin.

Gonorrhea data presented in this surveillance report represent confirmed or probable cases according to the [CDC case definition](#).

[Chlamydia](#) is an STI caused by the bacterium *Chlamydia trachomatis*, and is spread through oral, anal, and vaginal sex. It is the most common notifiable infection in the United States. Pregnant females may pass the infection to their infant during vaginal delivery. Most people who are infected have no outward symptoms. If symptoms are present, they may appear one to three weeks after transmission. Vaginal symptoms may include discharge, burning urination, and spotting. Penile symptoms may include urethral discharge, pain when urinating, and inflammation of the testicles which may result in sterility. Infection may occur in the rectum after anal sex, or by spreading from another infected area, such as the vagina. Untreated chlamydial infections may lead to PID. PID can cause scar tissue and abscesses to form increasing the risk of infertility, miscarriage, and ectopic pregnancy. Chlamydia increases the likelihood of contracting other STIs, such as gonorrhea or HIV.

Chlamydia can be cured with common [antibiotics](#). [Partner treatment](#) is crucial for the prevention of repeat infections.

Chlamydia data presented in this surveillance report represent confirmed cases according to the [CDC case definition](#).

Figure 1. STI Diagnoses By Age
New York State, 2017

What this figure shows

Chlamydia is the most commonly reported STI in NYS

55% of STIs are diagnosed among people younger than 26 years old

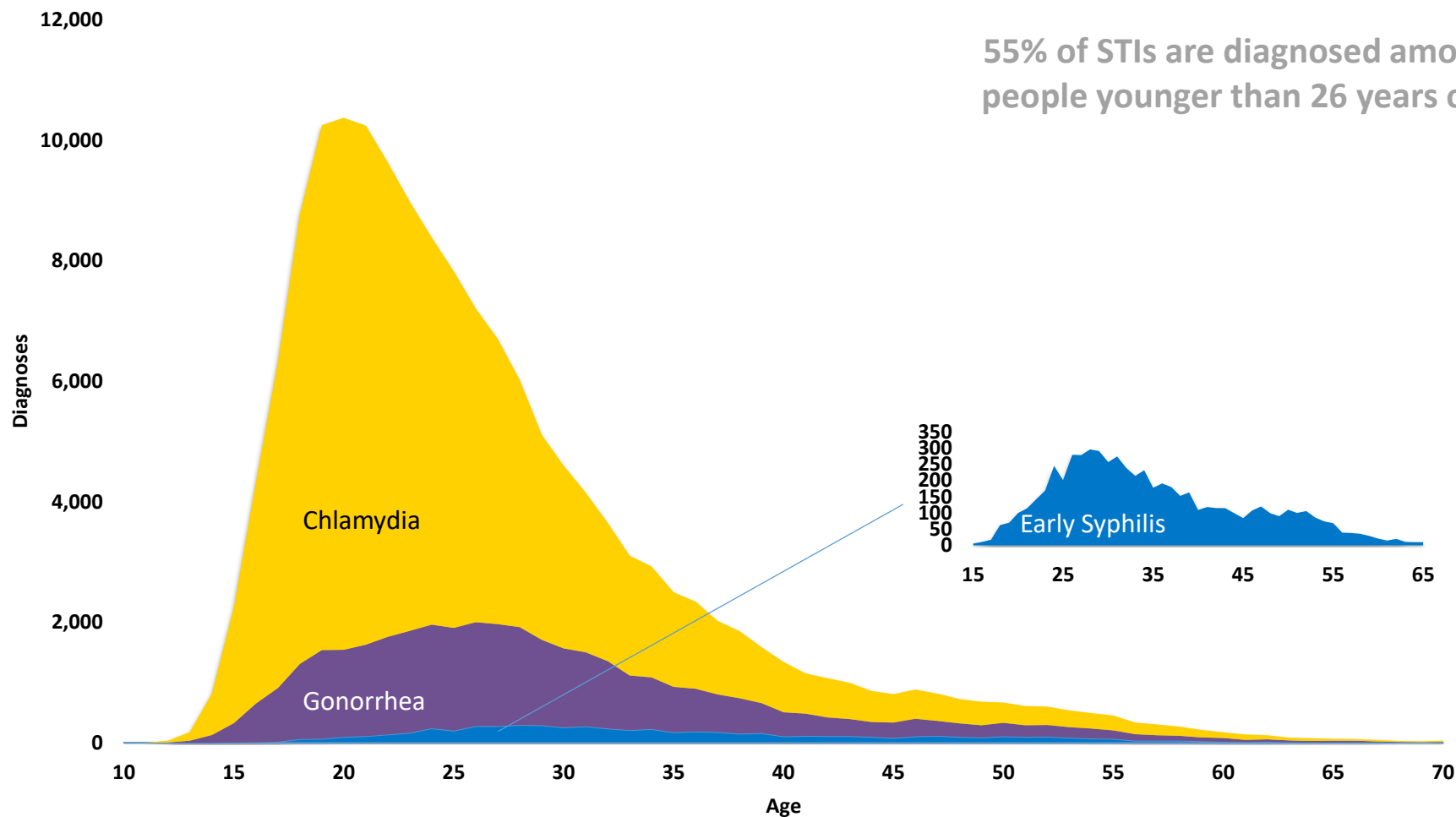


Table 1. STIs by Region/County
New York State, 2017

Region/County	Early Syphilis		Gonorrhea		Chlamydia	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	6,273	32.2	34,111	173.8	116,843	596.6
New York City (NYC)	5,144	56.3	23,491	259.8	71,690	827.2
Bronx	1,050	70.6	4,945	317.8	17,718	1,127.9
Kings	1,398	49.4	6,827	245.1	21,146	795.2
New York	1,782	95.2	7,849	409.5	16,678	939.5
Queens	844	34.4	3,514	149.9	14,426	641.6
Richmond	70	15.4	356	79.6	1,722	384.1
NYS excl. NYC	1,129	10.6	10,620	99.9	45,153	414.0
Buffalo Region	99	6.9	2,743	189.6	7,824	532.6
Allegany	1	1.6	10	24.8	92	168.5
Cattaraugus	-	-	46	70.1	211	301.6
Chautauqua	2	1.7	171	144.2	549	443.5
Erie	83	9.3	2,039	229.1	5,571	619.6
Genesee	4	7.0	32	59.7	167	318.5
Niagara	8	4.2	409	215.4	1,013	531.0
Orleans	-	-	31	81.9	148	389.7
Wyoming	1	2.5	5	13.6	73	197.8
Capital Region	179	12.2	1,290	89.0	5,999	401.7
Albany	85	27.9	519	156.3	1,877	520.5
Clinton	9	10.7	6	7.5	276	296.6
Columbia	10	16.8	30	60.1	189	389.0
Delaware	1	1.9	6	15.0	85	200.8
Essex	-	-	3	10.4	78	247.8
Franklin	1	2.7	6	11.3	86	171.1
Fulton	2	4.3	21	43.6	166	360.9
Greene	2	4.3	22	51.8	129	305.8
Hamilton	1	7.0	-	-	5	175.5
Montgomery	3	7.6	35	82.3	198	465.5
Otsego	3	6.2	26	45.3	236	295.6
Rensselaer	23	14.4	176	109.6	738	457.5
Saratoga	12	5.8	71	35.0	607	299.4
Schenectady	22	13.5	321	218.7	875	596.6
Schoharie	1	1.9	13	42.9	93	294.1
Warren	4	7.1	15	28.1	202	377.7
Washington	-	-	20	34.0	159	296.3

Region/County	Early Syphilis		Gonorrhea		Chlamydia	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	87	5.2	1,480	85.4	7,013	381.9
Broome	4	2.3	162	85.1	690	335.8
Cayuga	1	1.4	22	30.2	255	363.1
Chenango	1	1.7	8	19.1	116	283.5
Cortland	6	16.6	12	20.2	171	274.1
Herkimer	1	1.0	15	27.3	124	227.1
Jefferson	5	3.7	122	89.7	787	569.8
Lewis	-	-	5	20.8	63	279.3
Madison	5	6.3	24	33.0	196	250.1
Oneida	5	2.0	162	76.4	841	385.5
Onondaga	40	9.0	773	169.5	2,684	572.1
Oswego	2	1.8	49	39.5	327	264.3
St Lawrence	4	3.7	24	23.3	264	208.4
Tioga	2	5.4	15	35.9	72	182.0
Tompkins	11	9.7	87	63.4	423	242.3
Rochester Region	125	10.3	2,104	173.7	6,446	518.6
Chemung	10	11.5	35	45.9	274	350.3
Livingston	1	1.3	10	14.6	143	188.6
Monroe	100	14.0	1,891	256.9	4,988	660.8
Ontario	2	2.1	66	68.0	318	312.6
Schuyler	3	20.0	-	-	34	233.6
Seneca	3	8.6	10	33.6	101	301.3
Steuben	3	3.1	25	28.5	273	332.2
Wayne	3	3.1	62	79.9	263	335.7
Yates	-	-	5	30.7	52	216.9
Hudson Valley	320	14.7	1,526	71.1	8,393	381.5
Dutchess	61	21.5	210	73.8	1,074	360.3
Orange	51	14.2	294	80.3	1,542	401.9
Putnam	10	10.9	27	29.3	182	209.2
Rockland	31	10.3	124	41.2	944	307.0
Sullivan	9	13.1	75	113.3	271	417.4
Ulster	16	8.2	124	75.4	568	344.8
Westchester	142	15.8	672	76.8	3,812	427.9
Long Island	319	12.1	1,477	56.4	9,478	358.0
Nassau	168	13.5	717	57.7	4,561	364.6
Suffolk	151	10.9	760	55.4	4,917	352.2

Figure 2. Early Syphilis by Year
New York State, 1960-2017

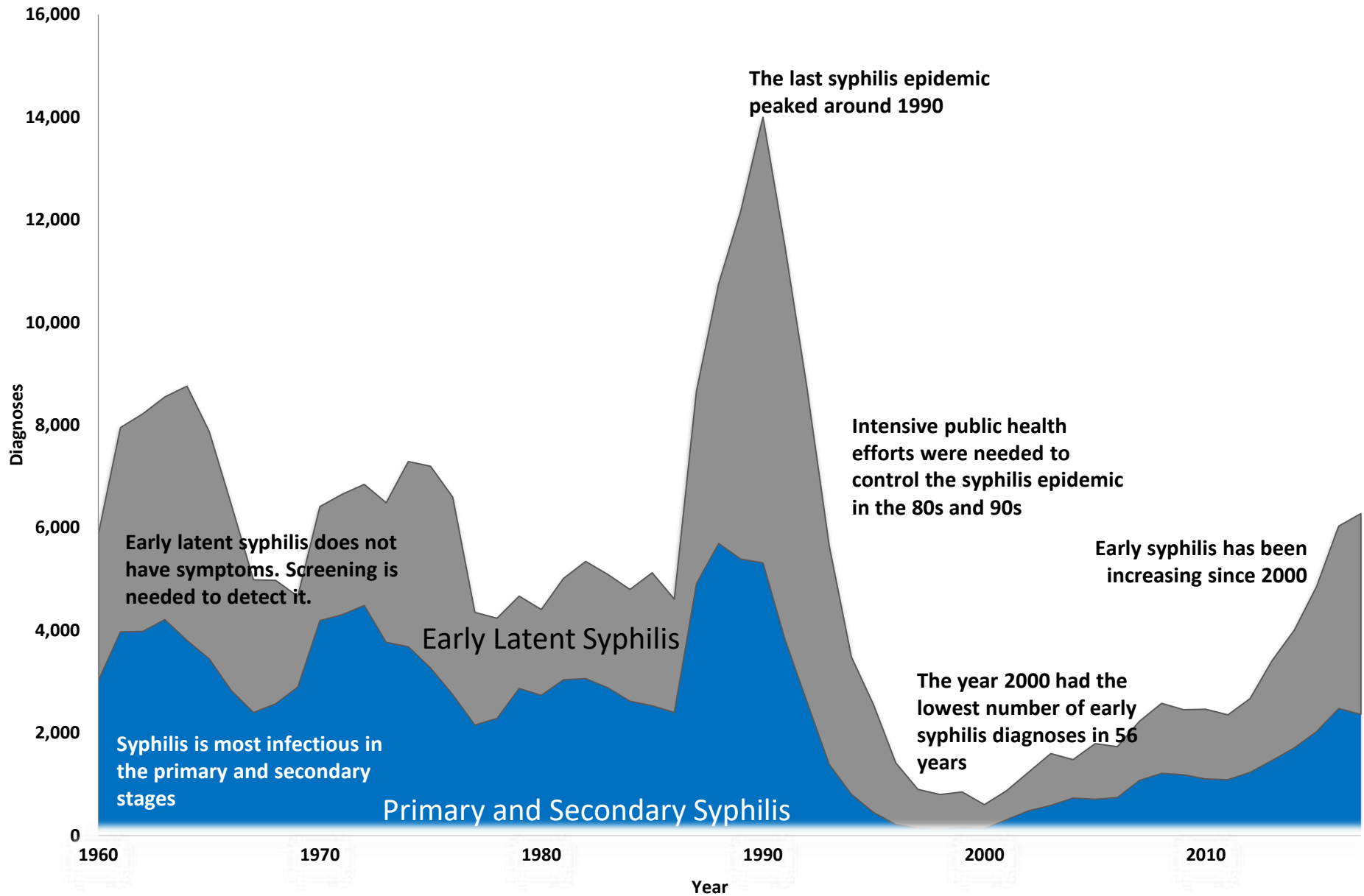


Figure 3. Early Syphilis by Year and Sex
New York State excluding NYC, 1936-2017

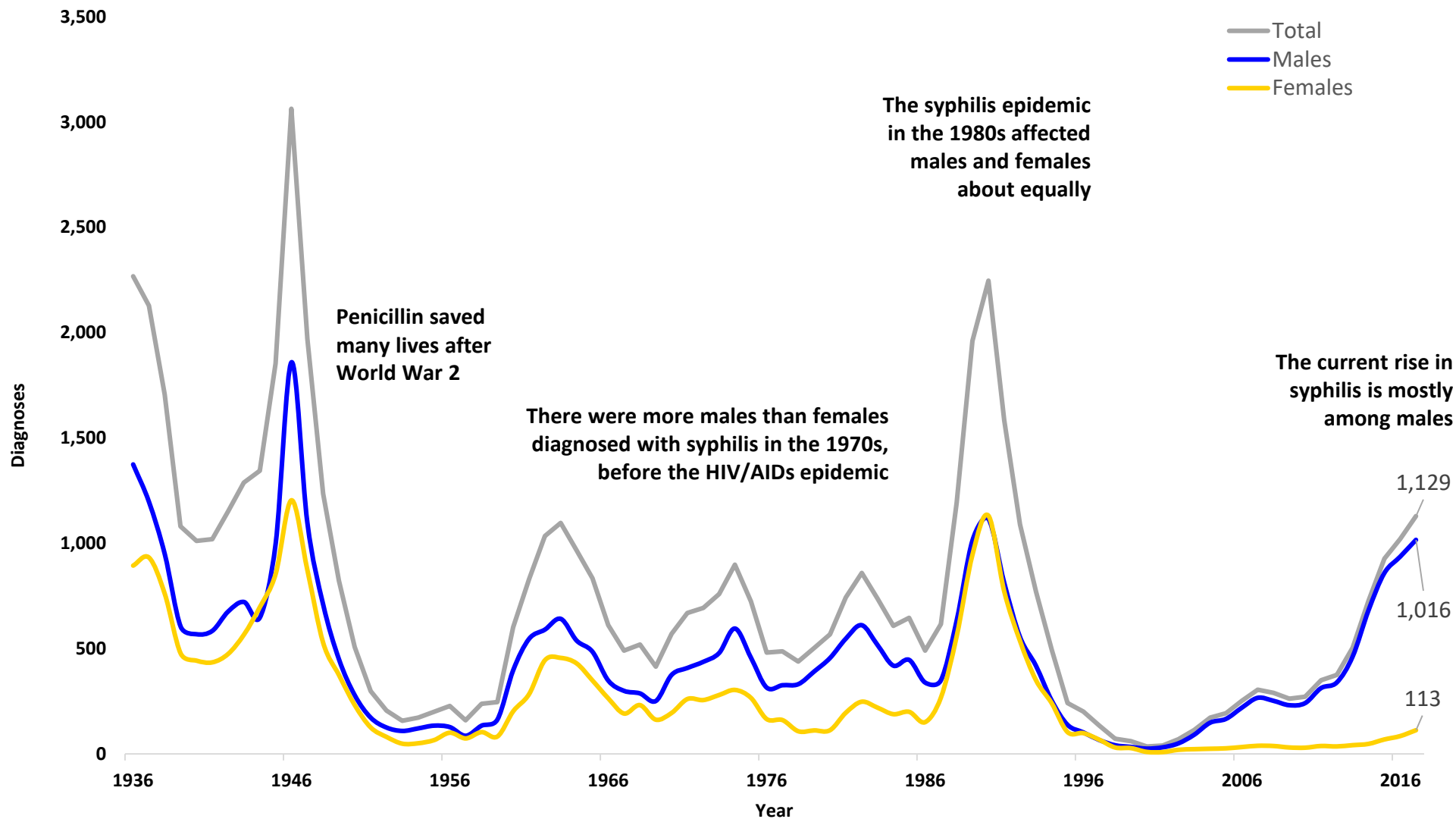
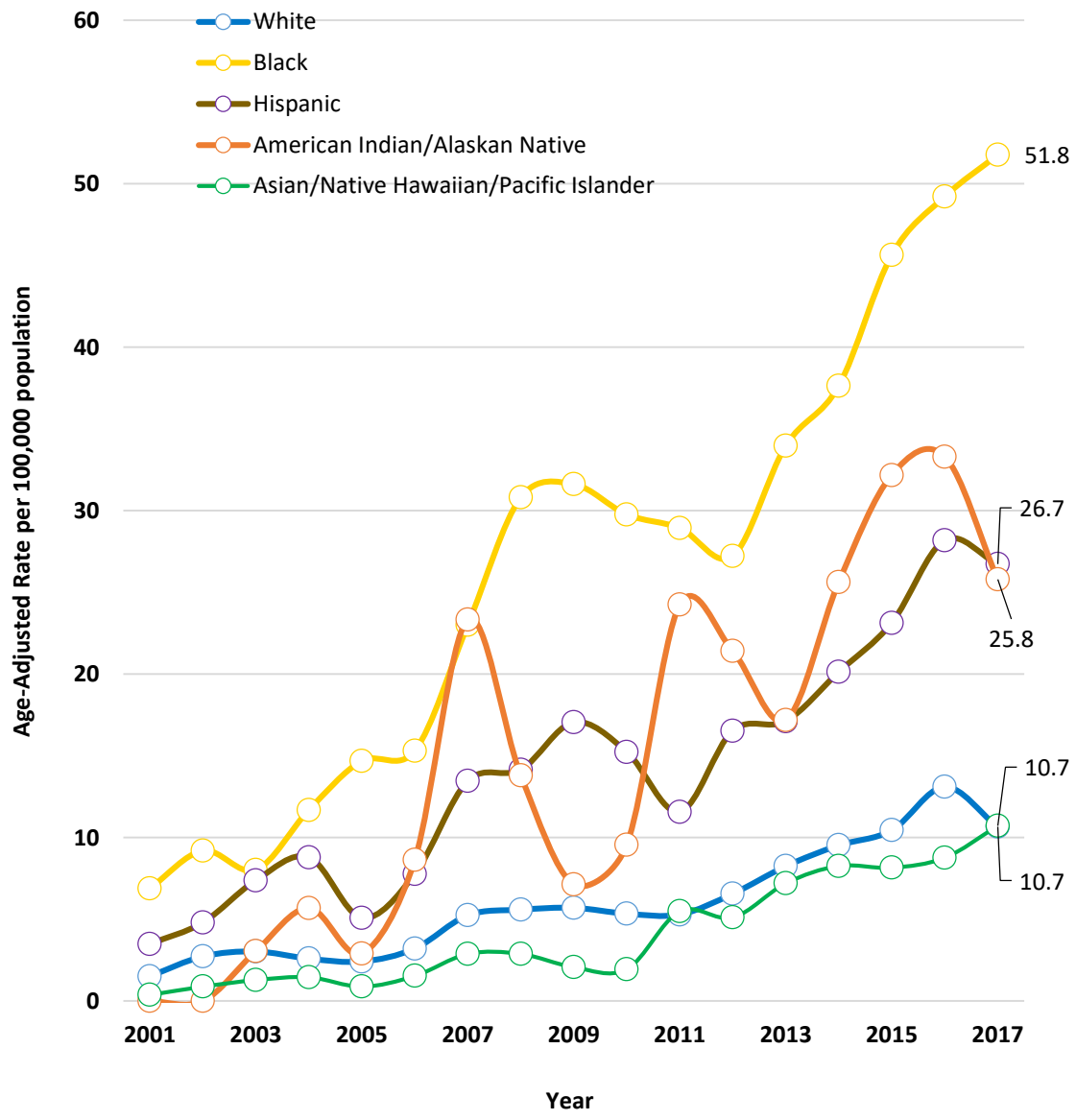


Figure 4. Primary and Secondary Syphilis Rates by Race/Ethnicity and Year, Males

New York State, 2001-2017



What this figure shows

Non-Hispanic black males have had the largest increases in syphilis

Although rates are high among American Indian/Alaskan Native population, this group represents a small proportion of the morbidity

2017 Diagnoses

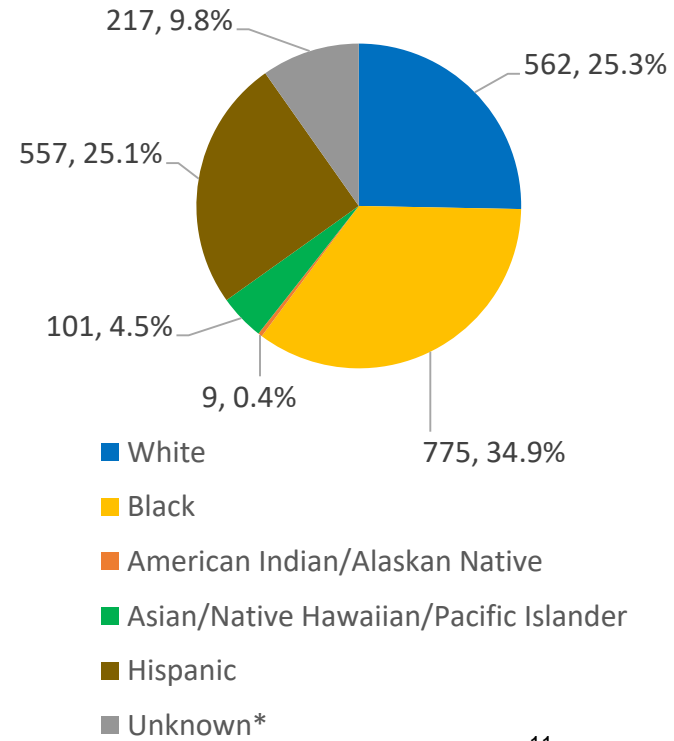


Figure 5. Primary and Secondary Syphilis Rates by Age and Sex
New York State, 2017

What this figure shows

Most primary and secondary syphilis is diagnosed among males

The rates are highest among males ages 20 to 34 years

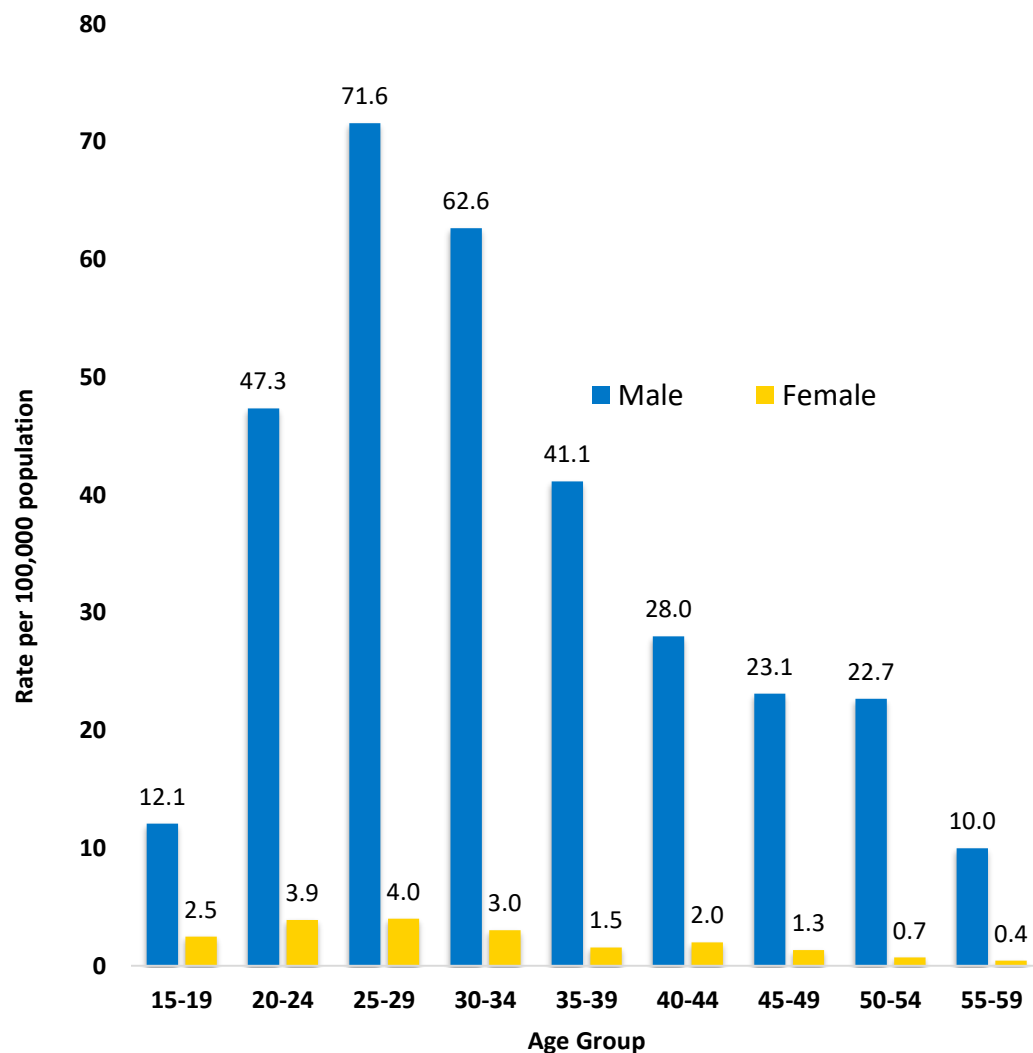


Figure 6. Congenital Syphilis Diagnoses with Primary & Secondary Syphilis Rates
New York State, 2005-2017

What this figure shows

The number of congenital syphilis diagnoses has increased even though the rate of primary and secondary syphilis among females has remained relatively low

The rate of primary and secondary syphilis among females has increased 169% in past 5 years

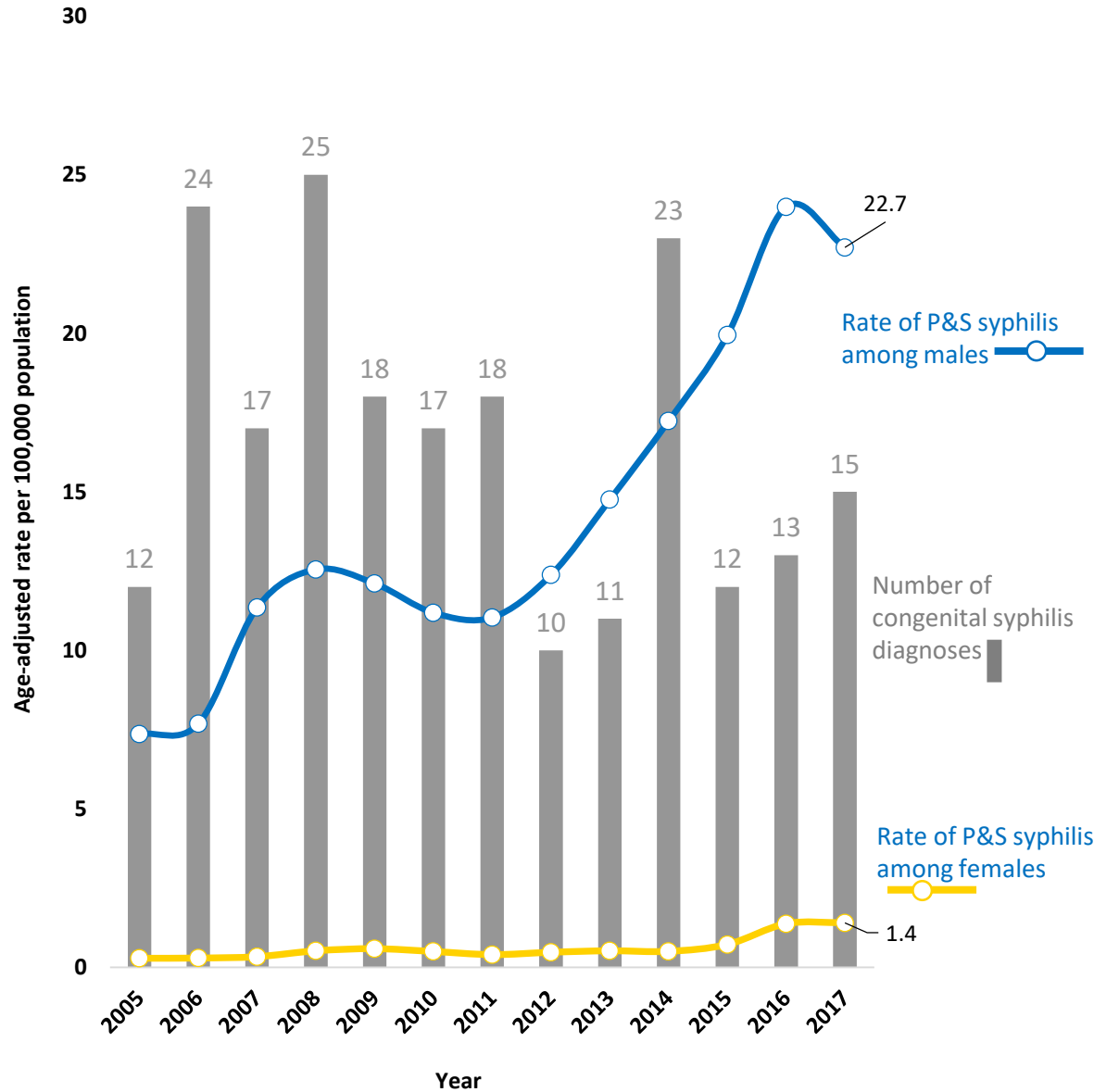


Table 2. Syphilis by Region/County
New York State, 2017

Region/County	Primary and Secondary Syphilis		Early Latent Syphilis		Late and Late Latent Syphilis	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	2,357	11.9	3,916	20.3	3,598	18.3
New York City (NYC)	1,799	19.4	3,345	36.9	2,851	31.6
Bronx	389	25.2	661	45.4	608	41.1
Kings	521	18.1	877	31.3	821	30.1
New York	596	31.4	1,186	63.8	696	36.1
Queens	267	10.9	577	23.5	674	28.0
Richmond	26	5.6	44	9.8	52	11.5
NYS excl. NYC	558	5.2	571	5.4	747	6.4
Buffalo Region	64	4.5	35	2.4	94	5.6
Allegany	1	1.6	-	-	1	1.5
Cattaraugus	-	-	-	-	2	2.2
Chautauqua	2	1.7	-	-	4	3.1
Erie	55	6.2	28	3.2	74	7.2
Genesee	2	3.9	2	3.2	3	3.4
Niagara	4	2.3	4	1.9	10	4.6
Wyoming	-	-	1	2.5	-	-
Capital Region	100	6.8	79	5.5	96	6.0
Albany	51	17.0	34	11.0	36	10.8
Clinton	2	2.2	7	8.5	-	-
Columbia	4	6.3	6	10.5	3	4.5
Delaware	1	1.9	-	-	-	-
Essex	-	-	-	-	1	3.8
Franklin	-	-	1	2.7	2	4.2
Fulton	-	-	2	4.3	-	-
Greene	1	2.2	1	2.0	2	3.6
Hamilton	1	7.0	-	-	-	-
Montgomery	1	2.3	2	5.3	-	-
Otsego	2	3.4	1	2.8	-	-
Rensselaer	16	10.0	7	4.4	15	8.6
Saratoga	8	3.9	4	1.9	6	2.5
Schenectady	11	6.7	11	6.8	28	17.8
Schoharie	1	1.9	-	-	-	-
Warren	1	1.7	3	5.4	1	1.8
Washington	-	-	-	-	2	3.9

Region/County	Primary and Secondary Syphilis		Early Latent Syphilis		Late and Late Latent Syphilis	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	46	2.8	41	2.4	38	2.2
Broome	2	0.8	2	1.4	9	4.6
Cayuga	1	1.4	-	-	-	-
Chenango	1	1.7	-	-	2	5.0
Cortland	3	7.1	3	9.5	1	3.5
Herkimer	1	1.0	-	-	1	1.8
Jefferson	3	2.3	2	1.4	2	2.5
Madison	2	3.3	3	3.0	-	-
Oneida	2	1.0	3	1.0	12	4.9
Onondaga	21	4.6	19	4.3	4	0.8
Oswego	2	1.8	-	-	2	1.3
St Lawrence	2	2.1	2	1.6	1	0.6
Tioga	1	2.9	1	2.5	-	-
Tompkins	5	5.0	6	4.8	4	4.4
Rochester Region	71	6.0	54	4.3	86	6.3
Chemung	3	4.4	7	7.0	2	2.9
Livingston	-	-	1	1.3	-	-
Monroe	59	8.4	41	5.6	72	8.8
Ontario	2	2.1	-	-	4	5.0
Schuyler	3	20.0	-	-	-	-
Seneca	1	2.7	2	5.9	3	7.8
Steuben	2	2.5	1	0.6	1	1.4
Wayne	1	1.2	2	1.9	4	2.9
Hudson Valley	148	6.6	172	8.0	226	9.3
Dutchess	23	7.8	38	13.7	21	5.7
Orange	20	5.4	31	8.7	17	4.7
Putnam	4	3.3	6	7.6	4	3.4
Rockland	6	1.9	25	8.5	30	9.3
Sullivan	6	9.2	3	4.0	3	4.0
Ulster	5	2.2	11	6.0	15	7.7
Westchester	84	9.2	58	6.6	136	13.5
Long Island	129	4.9	190	7.2	207	7.2
Nassau	70	5.7	98	7.8	81	6.5
Suffolk	59	4.2	92	6.7	126	7.8

Table 3. Early Syphilis by Region/County and Sex
New York State, 2017

Region/County	Male		Female		Total	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	5,880	61.1	393	4.0	6,273	32.2
New York City (NYC)	4,864	109.9	280	6.1	5,144	56.3
Bronx	965	137.0	85	10.9	1,050	70.6
Kings	1,321	97.1	77	5.4	1,398	49.4
New York	1,721	188.1	61	7.0	1,782	95.2
Queens	794	65.5	50	3.9	844	34.4
Richmond	63	28.3	7	2.8	70	15.4
NYS excl. NYC	1,016	19.0	113	2.2	1,129	10.6
Buffalo Region	88	12.2	11	1.6	99	6.9
Allegany	1	2.9	-	-	1	1.6
Chautauqua	2	3.3	-	-	2	1.7
Erie	72	16.2	11	2.5	83	9.3
Genesee	4	13.8	-	-	4	7.0
Niagara	8	8.5	-	-	8	4.2
Wyoming	1	3.9	-	-	1	2.5
Capital Region	146	19.4	33	4.8	179	12.2
Albany	68	44.6	17	11.8	85	27.9
Clinton	9	19.8	-	-	9	10.7
Columbia	10	33.7	-	-	10	16.8
Delaware	1	3.8	-	-	1	1.9
Franklin	1	4.6	-	-	1	2.7
Fulton	1	4.1	1	4.5	2	4.3
Greene	2	7.5	-	-	2	4.3
Hamilton	1	14.0	-	-	1	7.0
Montgomery	2	10.8	1	4.7	3	7.6
Otsego	3	12.3	-	-	3	6.2
Rensselaer	18	22.6	5	6.2	23	14.4
Saratoga	9	8.7	3	3.1	12	5.8
Schenectady	17	20.6	5	6.5	22	13.5
Schoharie	1	3.9	-	-	1	1.9
Warren	3	10.9	1	3.4	4	7.1

Region/County	Male		Female		Total	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	84	9.9	3	0.4	87	5.2
Broome	4	4.5	-	-	4	2.3
Cayuga	1	2.7	-	-	1	1.4
Chenango	1	3.5	-	-	1	1.7
Cortland	6	33.3	-	-	6	16.6
Herkimer	1	2.0	-	-	1	1.0
Jefferson	5	6.6	-	-	5	3.7
Madison	5	12.7	-	-	5	6.3
Oneida	5	3.8	-	-	5	2.0
Onondaga	37	16.8	3	1.4	40	9.0
Oswego	2	3.5	-	-	2	1.8
St Lawrence	4	6.8	-	-	4	3.7
Tioga	2	10.6	-	-	2	5.4
Tompkins	11	19.7	-	-	11	9.7
Rochester Region	119	19.7	6	1.0	125	10.3
Chemung	9	19.8	1	2.7	10	11.5
Livingston	-	-	1	2.6	1	1.3
Monroe	96	27.6	4	1.2	100	14.0
Ontario	2	4.3	-	-	2	2.1
Schuyler	3	39.0	-	-	3	20.0
Seneca	3	14.7	-	-	3	8.6
Steuben	3	6.1	-	-	3	3.1
Wayne	3	6.1	-	-	3	3.1
Hudson Valley	284	25.9	36	3.3	320	14.7
Dutchess	52	36.1	9	5.8	61	21.5
Orange	42	22.7	9	5.3	51	14.2
Putnam	10	21.3	-	-	10	10.9
Rockland	29	19.6	2	0.9	31	10.3
Sullivan	7	18.9	2	6.7	9	13.1
Ulster	15	14.7	1	1.3	16	8.2
Westchester	129	29.0	13	2.9	142	15.8
Long Island	295	22.4	24	1.8	319	12.1
Nassau	156	25.3	12	1.9	168	13.5
Suffolk	139	19.8	12	1.8	151	10.9

**Table 4. Primary and Secondary Syphilis by Region/County and Sex
New York State, 2017**

Region/County	Male		Female		Total	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	2,221	22.7	136	1.4	2,357	11.9
New York City (NYC)	1,714	38.0	85	1.9	1,799	19.4
Bronx	359	48.6	30	3.8	389	25.2
Kings	498	35.8	23	1.6	521	18.1
New York	579	62.4	17	2.2	596	31.4
Queens	257	21.2	10	0.8	267	10.9
Richmond	21	9.5	5	1.9	26	5.6
NYS excl. NYC	507	9.4	51	1.0	558	5.2
Buffalo Region	59	8.2	5	0.7	64	4.5
Allegany	1	2.9	-	-	1	1.6
Chautauqua	2	3.3	-	-	2	1.7
Erie	50	11.2	5	1.1	55	6.2
Genesee	2	7.5	-	-	2	3.9
Niagara	4	4.6	-	-	4	2.3
Capital Region	78	10.2	22	3.2	100	6.8
Albany	38	25.2	13	9.0	51	17.0
Clinton	2	4.1	-	-	2	2.2
Columbia	4	12.6	-	-	4	6.3
Delaware	1	3.8	-	-	1	1.9
Greene	1	4.2	-	-	1	2.2
Hamilton	1	14.0	-	-	1	7.0
Montgomery	1	4.7	-	-	1	2.3
Otsego	2	6.8	-	-	2	3.4
Rensselaer	13	16.1	3	3.8	16	10.0
Saratoga	6	5.9	2	2.1	8	3.9
Schenectady	8	9.8	3	3.5	11	6.7
Schoharie	1	3.9	-	-	1	1.9
Warren	-	-	1	3.4	1	1.7

Region/County	Male		Female		Total	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	45	5.4	1	0.1	46	2.8
Broome	2	1.6	-	-	2	0.8
Cayuga	1	2.7	-	-	1	1.4
Chenango	1	3.5	-	-	1	1.7
Cortland	3	14.4	-	-	3	7.1
Herkimer	1	2.0	-	-	1	1.0
Jefferson	3	4.0	-	-	3	2.3
Madison	2	6.6	-	-	2	3.3
Oneida	2	1.9	-	-	2	1.0
Onondaga	20	9.0	1	0.4	21	4.6
Oswego	2	3.5	-	-	2	1.8
St Lawrence	2	3.9	-	-	2	2.1
Tioga	1	5.8	-	-	1	2.9
Tompkins	5	10.2	-	-	5	5.0
Rochester Region	70	12.0	1	0.2	71	6.0
Chemung	3	8.6	-	-	3	4.4
Monroe	58	16.9	1	0.3	59	8.4
Ontario	2	4.3	-	-	2	2.1
Schuyler	3	39.0	-	-	3	20.0
Seneca	1	4.6	-	-	1	2.7
Steuben	2	4.9	-	-	2	2.5
Wayne	1	2.4	-	-	1	1.2
Hudson Valley	134	11.9	14	1.3	148	6.6
Dutchess	22	14.6	1	0.4	23	7.8
Orange	16	8.3	4	2.4	20	5.4
Putnam	4	6.6	-	-	4	3.3
Rockland	6	3.7	-	-	6	1.9
Sullivan	5	14.5	1	3.3	6	9.2
Ulster	5	4.3	-	-	5	2.2
Westchester	76	16.8	8	1.8	84	9.2
Long Island	121	9.1	8	0.6	129	4.9
Nassau	67	10.9	3	0.5	70	5.7
Suffolk	54	7.6	5	0.7	59	4.2

Table 5. Early Syphilis by Sex and Age
New York State, 2017

Age(yrs)	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Male						
10-14	2	0.3	1	0.4	1	0.3
15-19	128	20.3	82	34.8	46	11.7
20-24	698	100.1	511	179.1	187	45.4
25-29	1,256	166.8	1,062	272.2	194	53.5
30-34	1,159	167.7	1,020	285.3	139	41.7
35-39	821	130.9	720	236.7	101	31.3
40-44	528	90.6	450	169.4	78	24.6
45-49	476	74.3	390	146.8	86	22.9
50-54	457	67.7	375	142.0	82	20.0
55-59	202	30.5	144	57.9	58	14.0
60-64	73	12.9	52	24.5	21	5.9
65-69	43	9.2	30	17.4	13	4.4
70+	36	4.3	26	8.7	10	1.9
Female						
10-14	1	0.2	0	0.0	1	0.3
15-19	38	6.3	19	8.2	19	5.1
20-24	72	10.4	54	17.8	18	4.6
25-29	89	11.9	65	15.7	24	7.1
30-34	56	8.0	42	11.3	14	4.3
35-39	42	6.5	29	9.0	13	4.0
40-44	28	4.6	25	8.8	3	0.9
45-49	24	3.6	21	7.3	3	0.8
50-54	19	2.6	11	3.8	8	1.9
55-59	8	1.1	3	1.1	5	1.2
60-64	4	0.6	3	1.2	1	0.3
65-69	1	0.2	0	0.0	1	0.3
70+	11	0.9	8	1.7	3	0.4

Age(yrs)	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Total						
10-14	3	0.3	1	0.2	2	0.3
15-19	166	13.4	101	21.6	65	8.4
20-24	770	55.3	565	96.0	205	25.5
25-29	1,345	89.4	1,127	140.1	218	31.2
30-34	1,215	87.6	1,062	145.7	153	23.2
35-39	863	67.8	749	119.8	114	17.6
40-44	556	46.7	475	86.4	81	12.7
45-49	500	38.1	411	74.3	89	11.7
50-54	476	34.2	386	69.7	90	10.7
55-59	210	15.3	147	27.7	63	7.5
60-64	77	6.5	55	11.8	22	3.0
65-69	44	4.4	30	7.7	14	2.3
70+	47	2.3	34	4.4	13	1.0

Table 6. Primary and Secondary Syphilis by Sex and Age
New York State, 2017

Age(yrs)	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Male						
10-14	1	0.2	0	0.0	1	0.3
15-19	76	12.1	45	19.1	31	7.9
20-24	330	47.3	247	86.6	83	20.1
25-29	539	71.6	432	110.7	107	29.5
30-34	433	62.6	364	101.8	69	20.7
35-39	258	41.1	212	69.7	46	14.2
40-44	163	28.0	130	48.9	33	10.4
45-49	148	23.1	109	41.0	39	10.4
50-54	153	22.7	107	40.5	46	11.2
55-59	66	10.0	38	15.3	28	6.8
60-64	22	3.9	13	6.1	9	2.5
65-69	19	4.1	11	6.4	8	2.7
70+	13	1.6	6	2.0	7	1.3
Female						
10-14	1	0.2	0	0.0	1	0.3
15-19	15	2.5	8	3.5	7	1.9
20-24	27	3.9	19	6.3	8	2.0
25-29	30	4.0	19	4.6	11	3.3
30-34	21	3.0	15	4.0	6	1.8
35-39	10	1.5	5	1.6	5	1.5
40-44	12	2.0	9	3.2	3	0.9
45-49	9	1.3	6	2.1	3	0.8
50-54	5	0.7	2	0.7	3	0.7
55-59	3	0.4	1	0.4	2	0.5
60-64	1	0.2	0	0.0	1	0.3
65-69	0	0.0	0	0.0	0	0.0
70+	2	0.2	1	0.2	1	0.1

Age(yrs)	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Total						
10-14	2	0.2	0	0.0	2	0.3
15-19	91	7.4	53	11.3	38	4.9
20-24	357	25.6	266	45.2	91	11.3
25-29	569	37.8	451	56.1	118	16.9
30-34	454	32.7	379	52.0	75	11.4
35-39	268	21.1	217	34.7	51	7.9
40-44	175	14.7	139	25.3	36	5.6
45-49	157	12.0	115	20.8	42	5.5
50-54	158	11.3	109	19.7	49	5.8
55-59	69	5.0	39	7.3	30	3.5
60-64	23	1.9	13	2.8	10	1.4
65-69	19	1.9	11	2.8	8	1.3
70+	15	0.7	7	0.9	8	0.6

Table 7. Early Syphilis by Region/County and Year
New York State, 2015 to 2017

Region/County	2015		2016		2017	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	4,847	24.9	6,027	31.0	6,273	32.2
New York City (NYC)	3,920	43.5	5,006	55.3	5,144	56.3
Bronx	827	55.6	995	66.1	1,050	70.6
Kings	1,026	36.9	1,285	46.2	1,398	49.4
New York	1,411	76.6	1,861	100.1	1,782	95.2
Queens	616	25.7	806	33.3	844	34.4
Richmond	40	8.7	59	13.0	70	15.4
NYS excl. NYC	927	8.7	1,021	9.7	1,129	10.6
Buffalo Region	140	9.6	103	7.4	99	6.9
Allegany	-	-	2	5.4	1	1.6
Cattaraugus	3	3.9	1	1.5	-	-
Chautauqua	4	3.5	4	4.0	2	1.7
Erie	121	13.6	87	10.2	83	9.3
Genesee	2	2.9	1	1.8	4	7.0
Niagara	8	3.7	5	2.4	8	4.2
Orleans	1	2.4	3	8.3	-	-
Wyoming	1	1.9	-	-	1	2.5
Capital Region	80	5.7	125	8.5	179	12.2
Albany	33	11.5	60	18.9	85	27.9
Clinton	1	1.3	6	6.5	9	10.7
Columbia	3	5.5	6	9.9	10	16.8
Delaware	-	-	1	2.3	1	1.9
Franklin	-	-	-	-	1	2.7
Fulton	6	13.0	1	2.1	2	4.3
Greene	2	3.6	3	6.1	2	4.3
Hamilton	-	-	-	-	1	7.0
Montgomery	1	2.3	-	-	3	7.6
Otsego	2	5.1	2	5.0	3	6.2
Rensselaer	7	4.2	17	10.7	23	14.4
Saratoga	7	3.0	13	5.7	12	5.8
Schenectady	15	9.9	12	8.3	22	13.5
Schoharie	1	2.6	1	4.9	1	1.9
Warren	-	-	3	5.3	4	7.1
Washington	2	2.5	-	-	-	-

Region/County	2015		2016		2017	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	87	4.9	87	5.0	87	5.2
Broome	13	5.9	5	1.9	4	2.3
Cayuga	1	1.3	1	1.3	1	1.4
Chenango	1	1.1	1	1.1	1	1.7
Cortland	4	7.8	4	8.3	6	16.6
Herkimer	1	1.0	2	3.4	1	1.0
Jefferson	6	5.4	-	-	5	3.7
Lewis	2	7.3	-	-	-	-
Madison	4	5.6	7	10.2	5	6.3
Oneida	5	2.3	9	4.3	5	2.0
Onondaga	39	8.8	36	7.6	40	9.0
Oswego	3	2.3	4	3.0	2	1.8
St Lawrence	3	2.1	6	5.3	4	3.7
Tioga	1	1.5	-	-	2	5.4
Tompkins	4	3.5	12	11.3	11	9.7
Rochester Region	87	7.0	97	7.9	125	10.3
Chemung	3	3.5	6	7.4	10	11.5
Livingston	1	2.5	-	-	1	1.3
Monroe	74	10.0	79	10.6	100	14.0
Ontario	1	0.9	4	3.6	2	2.1
Schuyler	-	-	-	-	3	20.0
Seneca	3	8.6	2	5.9	3	8.6
Steuben	3	3.3	1	1.3	3	3.1
Wayne	1	0.6	4	4.8	3	3.1
Yates	1	5.1	1	6.8	-	-
Hudson Valley	202	9.4	254	11.9	320	14.7
Dutchess	27	10.4	53	18.9	61	21.5
Orange	21	6.0	33	9.7	51	14.2
Putnam	5	4.6	14	15.1	10	10.9
Rockland	30	10.3	25	8.1	31	10.3
Sullivan	4	5.7	7	10.0	9	13.1
Ulster	11	6.7	9	5.6	16	8.2
Westchester	104	11.4	113	12.8	142	15.8
Long Island	331	12.5	355	13.4	319	12.1
Nassau	170	13.6	190	15.1	168	13.5
Suffolk	161	11.6	165	11.9	151	10.9

Table 8. Early Syphilis by Year and Region
New York State, 1958 - 2017

Year	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
1958	2,724	16.1	2,486	31.6	238	2.7
1959	3,374	20.0	3,128	40.2	246	2.7
1960	5,863	34.8	5,262	68.1	601	6.6
1961	7,948	46.8	7,118	91.7	830	9.0
1962	8,215	47.7	7,179	92.4	1,036	11.0
1963	8,547	49.4	7,450	96.1	1,097	11.5
1964	8,756	49.9	7,788	100.6	968	9.9
1965	7,878	44.3	7,043	89.9	835	8.4
1966	6,446	36.4	5,834	74.7	612	6.2
1967	4,980	27.6	4,489	55.8	491	4.9
1968	4,975	27.4	4,456	55.3	519	5.2
1969	4,661	25.6	4,247	52.6	414	4.1
1970	6,410	34.7	5,840	72.3	570	5.5
1971	6,649	35.9	5,980	75.8	669	6.3
1972	6,840	36.6	6,147	77.0	693	6.5
1973	6,486	34.9	5,727	72.5	759	7.1
1974	7,287	39.2	6,388	82.2	899	8.3
1975	7,194	39.0	6,469	85.4	725	6.7
1976	6,593	36.6	6,112	81.4	481	4.6
1977	4,347	24.2	3,860	51.5	487	4.6
1978	4,232	23.4	3,793	51.2	439	4.1
1979	4,666	25.8	4,163	57.7	503	4.7
1980	4,404	24.4	3,836	53.2	568	5.3
1981	5,009	28.8	4,266	60.7	743	7.2
1982	5,342	30.8	4,483	64.5	859	8.2
1983	5,086	29.2	4,340	62.9	746	7.1
1984	4,794	27.3	4,186	59.7	608	5.8
1985	5,120	29.3	4,474	62.5	646	6.2
1986	4,607	25.9	4,117	56.9	490	4.6
1987	8,659	48.6	8,043	110.0	616	5.9
1988	10,749	59.8	9,557	129.7	1,192	11.3
1989	12,170	68.0	10,209	138.6	1,961	18.6

Year	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
1990	13,997	77.9	11,750	159.3	2,247	21.2
1991	11,486	63.9	9,902	135.2	1,584	14.9
1992	8,709	48.6	7,619	104.1	1,090	10.2
1993	5,643	31.1	4,876	66.1	767	7.1
1994	3,481	18.9	2,986	40.1	495	4.6
1995	2,548	14.0	2,306	30.8	242	2.2
1996	1,416	7.6	1,215	16.2	201	1.9
1997	897	5.1	763	10.1	134	1.2
1998	797	4.0	725	9.6	72	0.6
1999	850	4.8	789	10.4	61	0.6
2000	599	2.6	564	7.1	35	0.3
2001	870	4.6	830	10.3	40	0.4
2002	1,231	6.4	1,161	14.4	70	0.6
2003	1,596	8.3	1,482	18.4	114	1.0
2004	1,475	7.7	1,302	16.2	173	1.6
2005	1,789	9.4	1,596	19.9	193	1.7
2006	1,731	9.1	1,479	18.5	252	2.3
2007	2,224	11.6	1,919	23.9	305	2.7
2008	2,576	13.4	2,286	28.3	290	2.6
2009	2,452	12.7	2,190	26.9	262	2.3
2010	2,461	12.7	2,190	26.7	271	2.4
2011	2,348	12.0	1,998	24.1	350	3.1
2012	2,666	13.6	2,291	27.4	375	3.3
2013	3,411	17.3	2,907	34.5	504	4.5
2014	4,005	20.3	3,276	38.7	729	6.5
2015	4,847	24.5	3,920	46.0	927	8.3
2016	6,027	30.5	5,006	58.6	1,021	9.1
2017	6,273	31.8	5,144	60.3	1,129	10.1

Table 9. Primary and Secondary Syphilis by Year and Region
New York State, 1953 - 2017

Year	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
1953	723	4.4	658	8.1	65	0.8
1954	710	4.5	617	7.7	93	1.2
1955	699	4.3	566	7.0	133	1.6
1956	739	4.5	605	7.5	134	1.6
1957	730	4.4	635	7.8	95	1.1
1958	1,045	6.2	911	11.4	134	1.5
1959	1,610	9.5	1,446	18.6	164	1.8
1960	3,016	17.9	2,607	33.7	409	4.5
1961	3,966	23.3	3,384	43.6	582	6.3
1962	3,975	23.1	3,333	42.9	642	6.8
1963	4,204	24.3	3,489	45.0	715	7.5
1964	3,802	21.7	3,165	40.9	637	6.5
1965	3,445	19.4	2,889	36.8	556	5.6
1966	2,822	15.9	2,445	31.4	377	3.8
1967	2,396	13.3	2,086	25.9	310	3.1
1968	2,564	14.1	2,231	27.7	333	3.3
1969	2,890	15.9	2,616	32.4	274	2.7
1970	4,185	22.6	3,779	46.8	406	3.9
1971	4,300	23.2	3,844	48.7	456	4.3
1972	4,479	24.0	4,041	50.6	438	4.1
1973	3,763	20.3	3,325	42.1	438	4.1
1974	3,676	19.8	3,145	40.5	531	4.9
1975	3,266	17.7	2,864	37.8	402	3.7
1976	2,746	15.2	2,494	33.2	252	2.4
1977	2,153	12.0	1,881	25.1	272	2.6
1978	2,283	12.6	2,058	27.8	225	2.1
1979	2,865	15.9	2,561	35.5	304	2.8
1980	2,729	15.1	2,393	33.2	336	3.1
1981	3,036	17.5	2,581	36.7	455	4.4
1982	3,059	17.6	2,580	37.1	479	4.6
1983	2,879	16.5	2,459	35.6	420	4.0
1984	2,618	14.9	2,280	32.5	338	3.2
1985	2,531	14.5	2,169	30.3	362	3.5

Year	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
1986	2,397	13.5	2,112	29.2	285	2.7
1987	4,910	27.5	4,542	62.1	368	3.5
1988	5,688	31.7	5,042	68.4	646	6.1
1989	5,384	30.1	4,362	59.2	1,022	9.7
1990	5,313	29.6	4,265	57.8	1,048	9.9
1991	3,825	21.3	3,133	42.8	692	6.5
1992	2,596	14.5	2,246	30.7	350	3.3
1993	1,387	7.7	1,129	15.3	258	2.4
1994	801	4.4	626	8.4	175	1.6
1995	447	2.5	362	4.8	85	0.8
1996	214	1.2	138	1.8	76	0.7
1997	138	0.8	97	1.3	41	0.4
1998	118	0.6	81	1.1	37	0.3
1999	150	0.9	130	1.7	20	0.2
2000	132	0.6	117	1.5	15	0.1
2001	304	1.6	282	3.5	22	0.2
2002	478	2.5	434	5.4	44	0.4
2003	584	3.0	531	6.6	53	0.5
2004	727	3.8	621	7.7	106	1.0
2005	705	3.7	616	7.7	89	0.8
2006	736	3.9	578	7.2	158	1.4
2007	1,072	5.6	916	11.4	156	1.4
2008	1,211	6.3	1,065	13.2	146	1.3
2009	1,184	6.1	1,056	13.0	128	1.1
2010	1,101	5.7	955	11.7	146	1.3
2011	1,088	5.6	894	10.8	194	1.7
2012	1,229	6.3	996	11.9	233	2.1
2013	1,464	7.4	1,167	13.9	297	2.6
2014	1,708	8.7	1,307	15.4	401	3.6
2015	2,023	10.2	1,521	17.9	502	4.5
2016	2,472	12.5	1,940	22.7	532	4.7
2017	2,357	11.9	1,799	21.1	558	5.0

Figure 7. Gonorrhea by Year and Region
New York State, 1960-2017

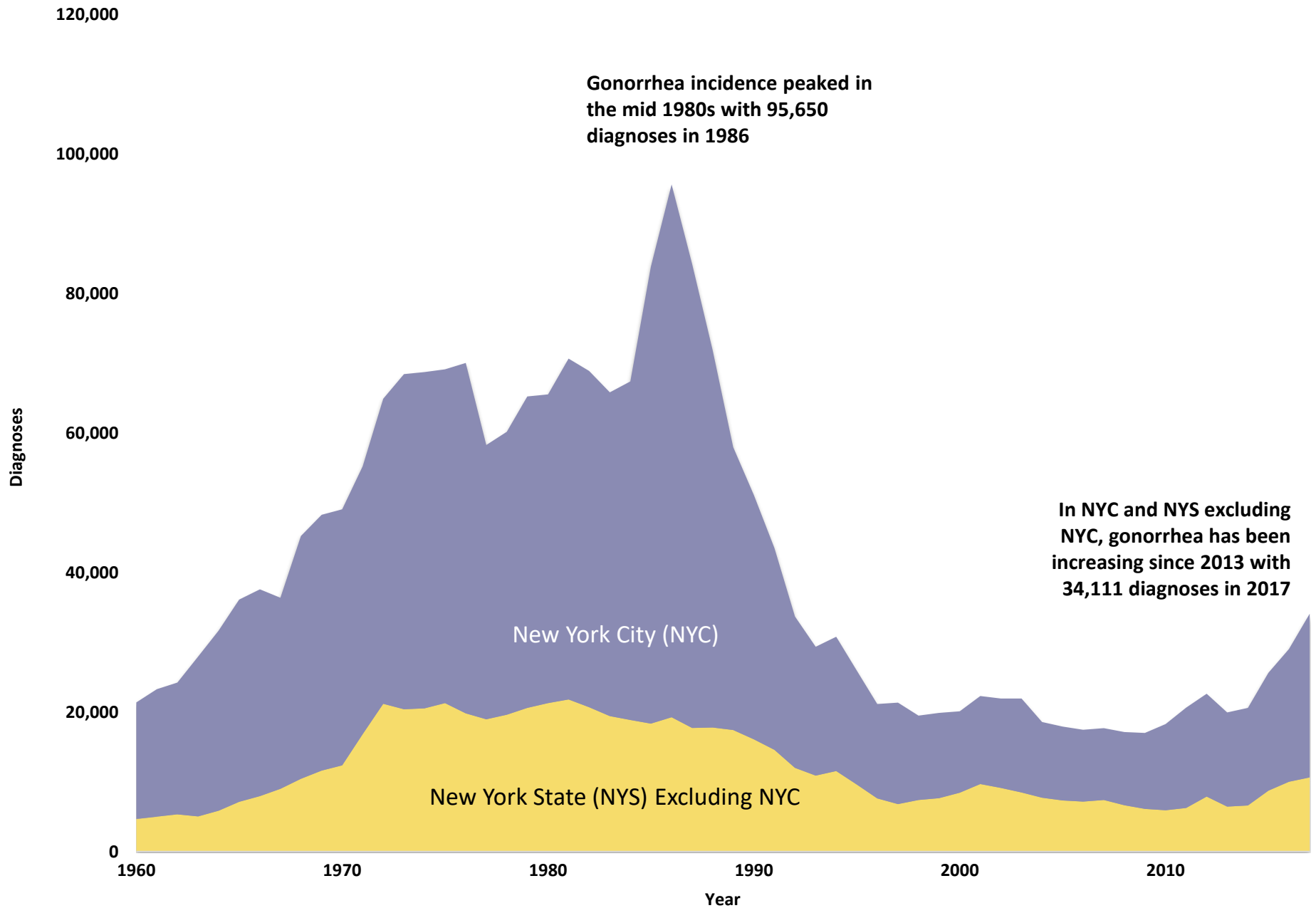


Figure 8. Gonorrhea Rates by Sex and Year
New York State, 2001-2017

What this figure shows

The vast majority of the recent increases have been among males, though the rate among females has been increasing since 2014

2006 was the first year since 2001 where there were more gonorrhea diagnoses among males than among females

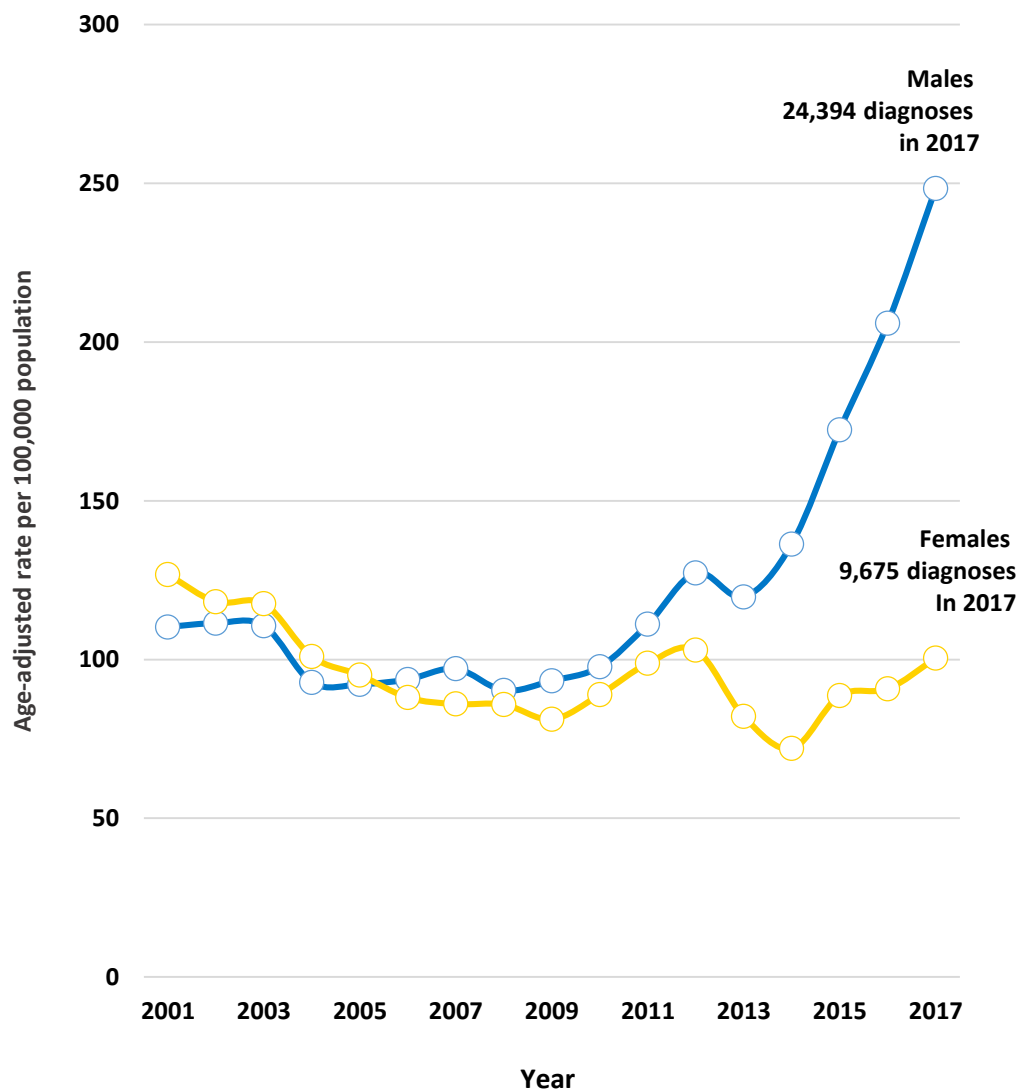
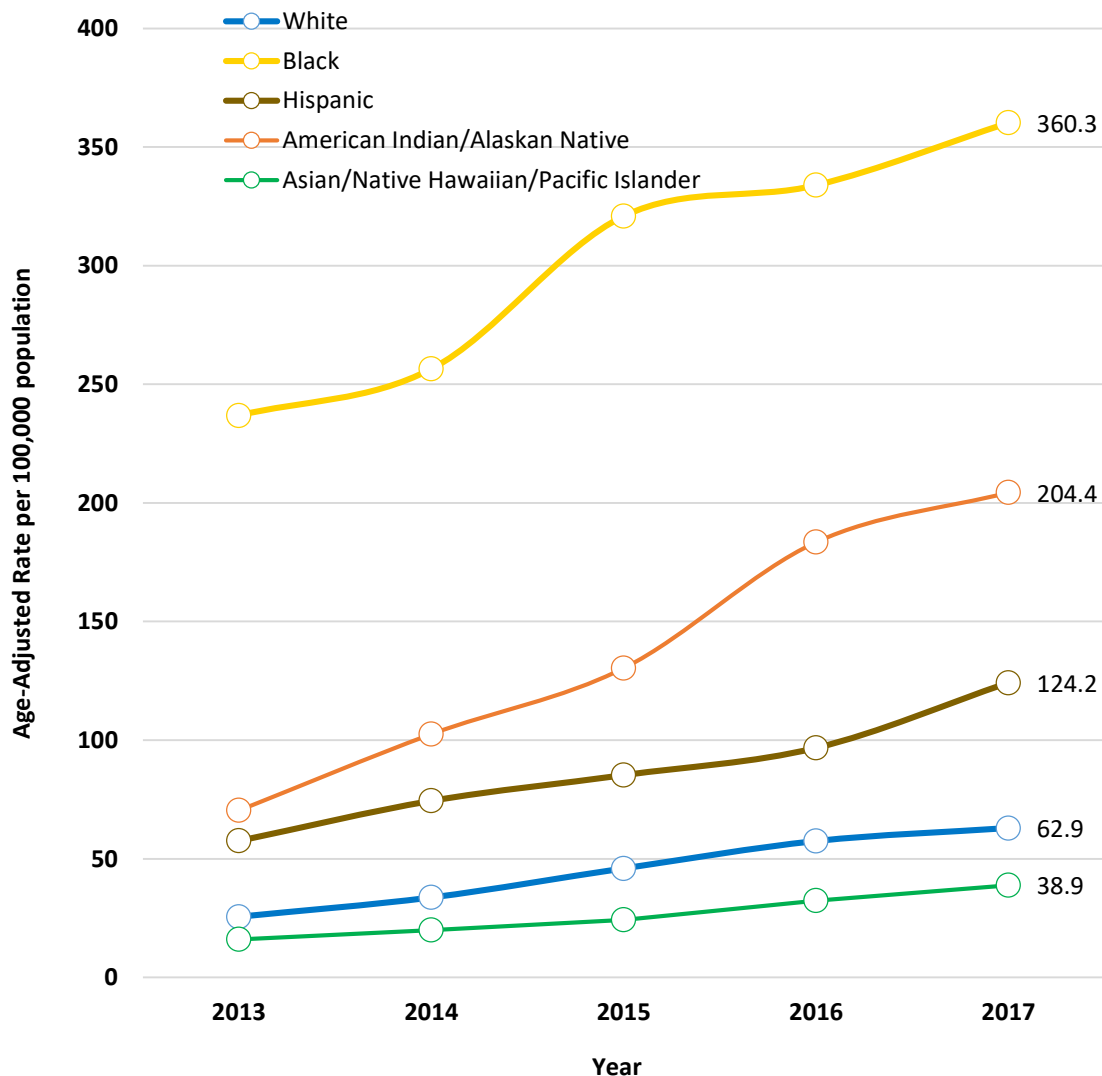


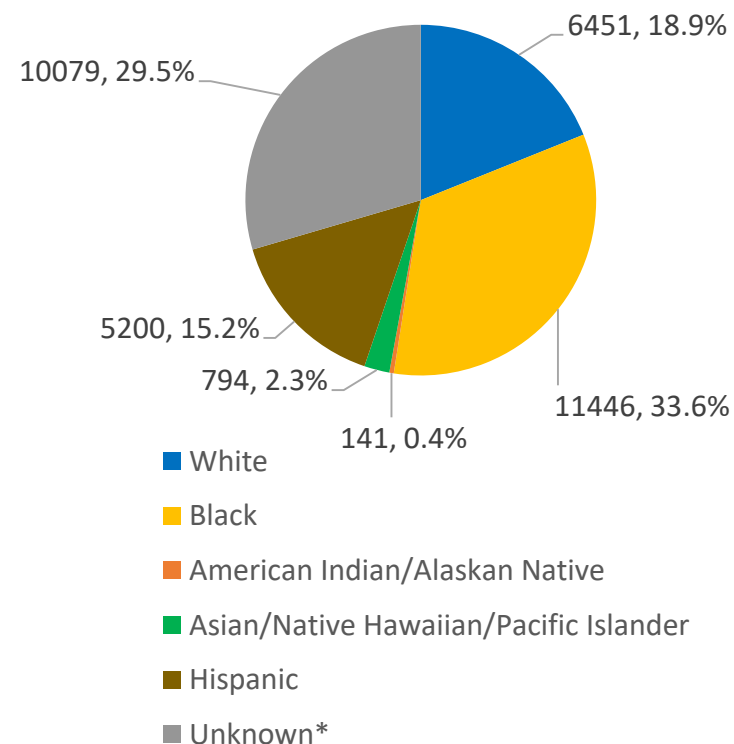
Figure 9. Gonorrhea Rates by Race/Ethnicity and Year New York State, 2013-2017



What this figure shows

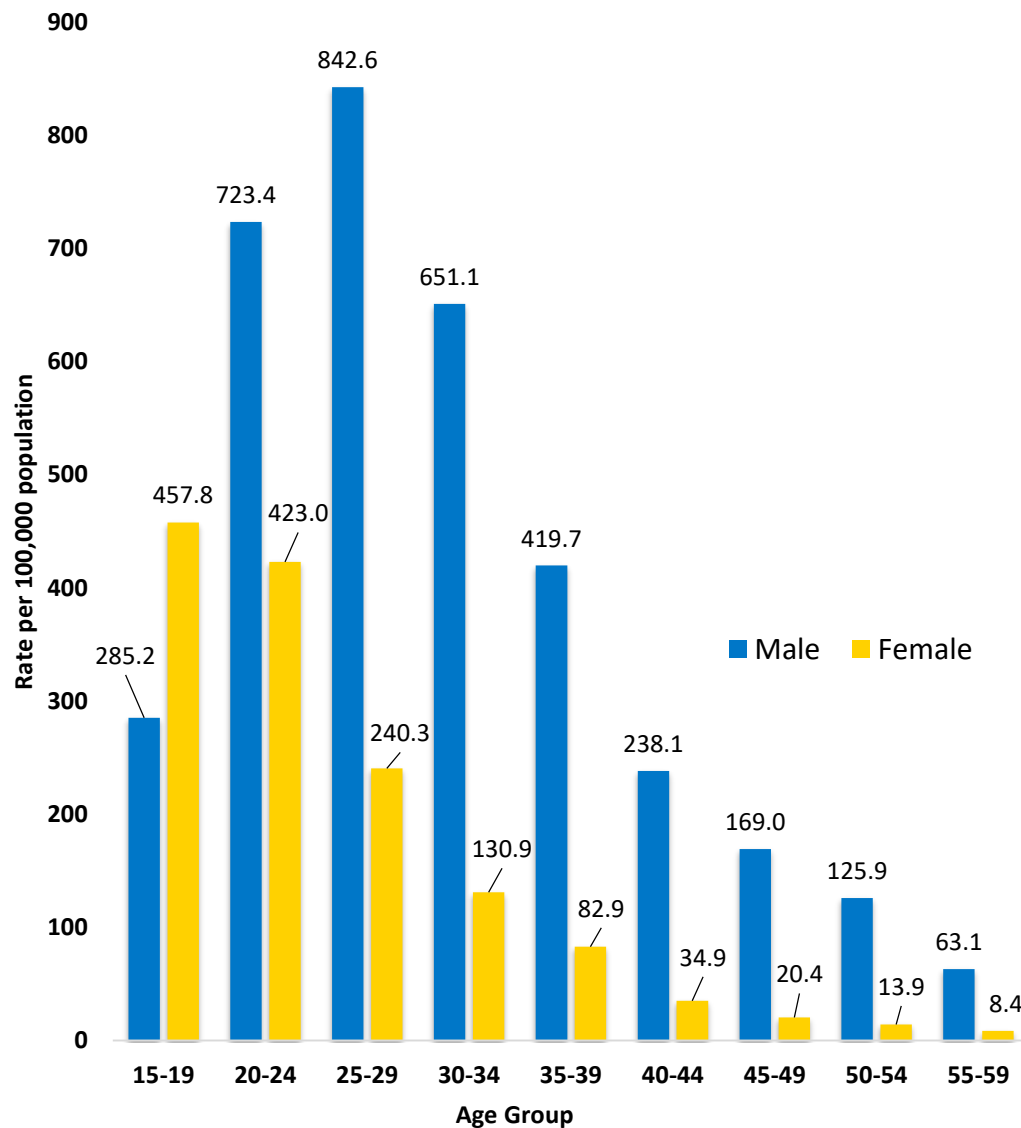
Non-Hispanic black individuals are disproportionately impacted by gonorrhea, followed by American Indian/Alaska Native and Hispanic individuals

2017 Diagnoses



*Data on race/ethnicity should be interpreted with caution given high proportion of diagnoses with unknown information

Figure 10. Gonorrhea Rates by Age and Sex
New York State, 2017



What this figure shows

Rates among males exceed those among females in all age groups, with the exception of persons aged 15 to 19

Among males, the highest gonorrhea rates are among 20 to 29 year olds

Among females, gonorrhea rates are highest among 15 to 24 year olds

Table 10. Gonorrhea by Region/County and Sex
New York State, 2017

Region/County	Male		Female		Total	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	24,394	248.4	9,675	100.4	34,111	173.8
New York City (NYC)	18,242	403.7	5,207	124.2	23,491	259.8
Bronx	3,282	434.7	1,649	213.2	4,945	317.8
Kings	5,203	374.8	1,615	125.4	6,827	245.1
New York	6,899	724.1	945	113.6	7,849	409.5
Queens	2,626	220.1	876	80.1	3,514	149.9
Richmond	232	103.1	122	56.4	356	79.6
NYS excl. NYC	6,152	114.4	4,468	85.6	10,620	99.9
Buffalo Region	1,423	194.0	1,320	186.1	2,743	189.6
Allegany	4	16.7	6	32.8	10	24.8
Cattaraugus	18	54.0	28	86.9	46	70.1
Chautauqua	76	123.0	95	166.6	171	144.2
Erie	1,089	243.3	950	216.1	2,039	229.1
Genesee	14	52.2	18	68.3	32	59.7
Niagara	202	209.8	207	223.8	409	215.4
Orleans	16	84.5	15	80.9	31	81.9
Wyoming	4	19.3	1	6.5	5	13.6
Capital Region	700	93.9	590	84.4	1,290	89.0
Albany	300	183.8	219	129.5	519	156.3
Clinton	5	11.4	1	3.2	6	7.5
Columbia	19	76.5	11	43.8	30	60.1
Delaware	4	20.7	2	9.3	6	15.0
Essex	2	12.1	1	7.4	3	10.4
Franklin	3	8.4	3	15.1	6	11.3
Fulton	8	30.2	13	58.2	21	43.6
Greene	11	45.9	11	62.0	22	51.8
Montgomery	14	61.7	21	104.1	35	82.3
Otsego	13	47.7	13	42.9	26	45.3
Rensselaer	103	123.8	73	96.4	176	109.6
Saratoga	43	41.2	28	29.0	71	35.0
Schenectady	153	206.7	168	232.6	321	218.7
Schoharie	9	57.1	4	28.5	13	42.9
Warren	6	20.7	9	35.4	15	28.1
Washington	7	20.9	13	51.8	20	34.0

Region/County	Male		Female		Total	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	805	91.8	675	78.8	1,480	85.4
Broome	81	83.6	81	87.7	162	85.1
Cayuga	9	23.5	13	37.3	22	30.2
Chenango	5	22.9	3	14.8	8	19.1
Cortland	8	32.0	4	8.3	12	20.2
Herkimer	9	32.3	6	22.1	15	27.3
Jefferson	62	76.1	60	109.0	122	89.7
Lewis	4	31.6	1	8.9	5	20.8
Madison	14	40.3	10	25.6	24	33.0
Oneida	83	74.8	79	78.6	162	76.4
Onondaga	409	185.9	364	154.1	773	169.5
Oswego	35	53.5	14	24.8	49	39.5
St Lawrence	13	24.5	11	22.0	24	23.3
Tioga	7	29.4	8	42.5	15	35.9
Tompkins	66	91.0	21	35.4	87	63.4
Rochester Region	1,201	198.8	903	150.1	2,104	173.7
Chemung	18	44.6	17	47.3	35	45.9
Livingston	6	17.6	4	10.9	10	14.6
Monroe	1,095	304.1	796	214.7	1,891	256.9
Ontario	37	75.4	29	60.7	66	68.0
Seneca	6	40.3	4	27.4	10	33.6
Steuben	17	38.0	8	18.7	25	28.5
Wayne	20	50.7	42	110.6	62	79.9
Yates	2	23.0	3	37.6	5	30.7
Hudson Valley	998	92.0	528	49.8	1,526	71.1
Dutchess	136	92.4	74	54.1	210	73.8
Orange	184	99.0	110	62.0	294	80.3
Putnam	20	39.8	7	18.4	27	29.3
Rockland	90	58.1	34	23.8	124	41.2
Sullivan	45	127.3	30	97.5	75	113.3
Ulster	70	81.5	54	68.0	124	75.4
Westchester	453	104.7	219	49.4	672	76.8
Long Island	1,025	77.5	452	35.1	1,477	56.4
Nassau	524	84.0	193	31.3	717	57.7
Suffolk	501	71.9	259	38.5	760	55.4

Table 11. Gonorrhea by Sex and Age
New York State, 2017

Age(yrs)	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Male						
10-14	40	6.8	31	13.0	9	2.6
15-19	1,797	285.2	1,115	473.7	682	172.8
20-24	5,044	723.4	3,408	1,194.4	1,636	397.1
25-29	6,345	842.6	5,002	1,282.2	1,343	370.0
30-34	4,500	651.1	3,643	1,018.9	857	256.9
35-39	2,632	419.7	2,111	694.1	521	161.3
40-44	1,388	238.1	1,073	403.9	315	99.3
45-49	1,083	169.0	837	315.1	246	65.6
50-54	850	125.9	580	219.6	270	65.7
55-59	418	63.1	273	109.8	145	35.0
60-64	170	30.0	96	45.2	74	20.9
65-69	66	14.1	35	20.4	31	10.5
70+	41	5.0	22	7.3	19	3.6
Female						
10-14	135	24.0	85	37.1	50	15.0
15-19	2,780	457.8	1,612	696.1	1,168	310.9
20-24	2,938	423.0	1,525	503.4	1,413	360.8
25-29	1,804	240.3	938	226.4	866	257.5
30-34	911	130.9	450	121.1	461	142.1
35-39	535	82.9	273	85.0	262	80.8
40-44	212	34.9	114	40.1	98	30.4
45-49	137	20.4	79	27.5	58	15.0
50-54	100	13.9	62	21.4	38	8.9
55-59	60	8.4	32	11.3	28	6.5
60-64	21	3.4	10	4.0	11	2.9
65-69	10	1.8	5	2.3	5	1.5
70+	13	1.1	9	1.9	4	0.5

Age(yrs)	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Total						
10-14	175	15.2	116	24.8	59	8.6
15-19	4,578	370.0	2,728	584.2	1,850	240.1
20-24	7,990	574.0	4,941	839.9	3,049	379.4
25-29	8,168	543.2	5,959	740.8	2,209	315.9
30-34	5,418	390.6	4,100	562.4	1,318	200.3
35-39	3,174	249.4	2,391	382.3	783	121.0
40-44	1,600	134.4	1,187	215.8	413	64.5
45-49	1,220	92.9	916	165.6	304	40.0
50-54	950	68.2	642	116.0	308	36.7
55-59	478	34.7	305	57.5	173	20.5
60-64	191	16.0	106	22.8	85	11.7
65-69	76	7.5	40	10.3	36	5.8
70+	54	2.7	31	4.0	23	1.8

Table 12. Gonorrhea by Region/County and Year
New York State, 2015 to 2017

Region/County	2015		2016		2017	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	25,632	130.3	29,048	148.0	34,111	173.8
New York City (NYC)	16,913	188.5	19,029	211.0	23,491	259.8
Bronx	3,609	229.6	3,696	236.6	4,945	317.8
Kings	4,984	180.7	5,855	211.2	6,827	245.1
New York	5,515	296.7	6,345	333.7	7,849	409.5
Queens	2,496	107.4	2,810	120.5	3,514	149.9
Richmond	309	68.3	323	72.5	356	79.6
NYS excl. NYC	8,719	81.3	10,019	94.2	10,620	99.9
Buffalo Region	2,225	151.8	2,433	168.3	2,743	189.6
Allegany	9	19.2	13	29.7	10	24.8
Cattaraugus	21	31.3	67	97.4	46	70.1
Chautauqua	135	109.8	118	98.6	171	144.2
Erie	1,720	191.7	1,874	210.8	2,039	229.1
Genesee	34	64.0	23	43.3	32	59.7
Niagara	262	135.3	306	162.4	409	215.4
Orleans	28	72.6	21	53.0	31	81.9
Wyoming	16	41.7	11	28.5	5	13.6
Capital Region	897	61.7	1,089	75.9	1,290	89.0
Albany	387	114.9	459	138.5	519	156.3
Clinton	18	21.3	14	14.5	6	7.5
Columbia	25	50.7	22	44.0	30	60.1
Delaware	5	9.3	6	14.4	6	15.0
Essex	5	15.7	2	6.3	3	10.4
Franklin	-	-	2	3.6	6	11.3
Fulton	14	29.6	23	50.6	21	43.6
Greene	27	65.4	9	19.9	22	51.8
Hamilton	-	-	1	7.0	-	-
Montgomery	16	38.0	15	33.6	35	82.3
Otsego	16	24.7	21	37.0	26	45.3
Rensselaer	142	87.4	169	108.4	176	109.6
Saratoga	51	24.8	65	31.4	71	35.0
Schenectady	167	114.3	244	171.5	321	218.7
Schoharie	6	23.5	3	14.0	13	42.9
Warren	7	13.6	9	17.5	15	28.1
Washington	11	19.6	25	46.8	20	34.0

Region/County	2015		2016		2017	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	1,439	82.0	1,678	96.9	1,480	85.4
Broome	179	93.2	202	108.3	162	85.1
Cayuga	24	32.7	21	30.3	22	30.2
Chenango	12	31.4	6	15.0	8	19.1
Cortland	14	24.0	17	36.6	12	20.2
Herkimer	17	29.5	22	40.8	15	27.3
Jefferson	55	39.8	85	64.3	122	89.7
Lewis	2	8.4	4	12.9	5	20.8
Madison	10	13.2	21	25.7	24	33.0
Oneida	102	46.8	111	50.5	162	76.4
Onondaga	904	196.7	1,006	219.5	773	169.5
Oswego	45	38.4	62	54.2	49	39.5
St Lawrence	10	9.2	20	16.7	24	23.3
Tioga	10	24.9	20	49.3	15	35.9
Tompkins	55	35.1	81	58.4	87	63.4
Rochester Region	1,969	160.6	2,523	207.5	2,104	173.7
Chemung	59	74.5	50	65.1	35	45.9
Livingston	8	13.5	14	20.8	10	14.6
Monroe	1,782	239.9	2,207	299.7	1,891	256.9
Ontario	43	43.3	67	66.3	66	68.0
Schuyler	6	37.4	-	-	-	-
Seneca	10	29.8	22	68.3	10	33.6
Steuben	36	41.3	23	27.3	25	28.5
Wayne	24	31.7	133	170.3	62	79.9
Yates	1	3.7	7	37.7	5	30.7
Hudson Valley	1,018	47.7	1,167	54.4	1,526	71.1
Dutchess	126	44.9	108	36.8	210	73.8
Orange	207	58.3	224	62.5	294	80.3
Putnam	12	14.4	18	22.1	27	29.3
Rockland	71	23.6	114	39.0	124	41.2
Sullivan	39	58.1	54	82.4	75	113.3
Ulster	64	39.0	64	37.8	124	75.4
Westchester	499	56.8	585	66.8	672	76.8
Long Island	1,171	44.2	1,129	43.2	1,477	56.4
Nassau	509	40.9	556	44.9	717	57.7
Suffolk	662	47.2	573	41.7	760	55.4

Table 13. Gonorrhea by Year and Region
New York State, 1958 - 2017

Year	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
1958	17,060	100.8	13,340	171.4	3,720	42.8
1959	18,610	110.2	14,400	185.2	4,210	47.4
1960	21,370	127.0	16,680	215.7	4,690	52.1
1961	23,270	136.9	18,280	235.4	4,990	53.9
1962	24,220	140.7	18,900	243.5	5,320	56.5
1963	27,950	161.7	22,920	295.6	5,030	52.4
1964	31,680	180.6	25,830	333.6	5,850	60.1
1965	36,120	203.2	28,990	370.2	7,130	72.2
1966	37,610	212.4	29,660	378.7	7,950	80.4
1967	36,380	201.5	27,380	341.1	9,000	90.0
1968	45,250	249.4	34,830	432.5	10,420	103.5
1969	48,290	265.0	36,690	454.5	11,600	114.3
1970	49,080	265.5	36,730	454.6	12,350	119.7
1971	55,240	298.6	38,400	486.4	16,840	159.9
1972	64,940	347.8	43,760	548.4	21,180	199.0
1973	68,470	368.5	48,060	609.1	20,410	190.0
1974	68,740	369.5	48,220	620.2	20,520	189.8
1975	69,130	374.9	47,840	631.7	21,290	196.4
1976	70,060	389.0	50,260	669.3	19,800	187.6
1977	58,280	324.6	39,300	524.3	18,980	179.8
1978	60,190	332.2	40,570	547.6	19,620	183.8
1979	65,250	361.1	44,660	578.1	20,590	192.9
1980	65,560	363.3	44,280	614.8	21,280	198.1
1981	70,690	406.9	48,890	695.5	21,800	208.4
1982	68,920	396.8	48,210	694.2	20,710	198.4
1983	65,830	378.2	46,410	672.8	19,420	186.0
1984	67,420	383.6	48,540	692.2	18,880	181.2
1985	83,850	479.1	65,510	914.8	18,340	176.1
1986	95,650	537.7	76,400	1,055.2	19,250	182.9
1987	84,250	472.6	66,540	909.9	17,710	168.1
1988	71,900	400.3	54,100	722.8	17,800	168.7
1989	57,980	323.8	40,550	550.5	17,430	165.3

Year	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
1990	51,090	284.4	34,990	474.4	16,100	152.3
1991	43,530	242.3	28,940	395.3	14,590	136.7
1992	33,720	188.1	21,710	296.5	12,010	112.6
1993	29,350	161.9	18,470	250.5	10,880	100.9
1994	30,790	167.4	19,250	258.6	11,540	106.4
1995	25,970	143.0	16,360	218.8	9,610	88.3
1996	21,140	114.1	13,530	181.4	7,610	69.9
1997	21,360	120.6	14,560	193.0	6,800	62.4
1998	19,500	99.0	12,100	159.7	7,400	67.3
1999	19,870	112.6	12,210	161.1	7,660	69.5
2000	20,110	88.2	11,670	145.6	8,440	77.0
2001	22,294	116.8	12,614	156.5	9,680	87.8
2002	21,925	114.6	12,811	158.7	9,114	82.4
2003	21,952	114.5	13,466	166.9	8,486	76.4
2004	18,579	96.9	10,860	135.0	7,719	69.4
2005	17,912	93.6	10,596	132.2	7,316	65.8
2006	17,459	91.4	10,299	128.8	7,160	64.4
2007	17,699	92.5	10,310	128.7	7,389	66.5
2008	17,120	89.1	10,483	129.9	6,637	59.6
2009	17,009	88.1	10,898	134.0	6,111	54.7
2010	18,270	94.2	12,354	150.8	5,916	52.8
2011	20,643	105.8	14,403	173.9	6,240	55.5
2012	22,631	115.4	14,747	176.4	7,884	70.1
2013	19,960	101.5	13,500	160.3	6,460	57.4
2014	20,594	104.4	13,978	165.0	6,616	58.8
2015	25,632	129.8	16,913	198.6	8,719	77.6
2016	29,048	147.1	19,029	222.9	10,019	89.4
2017	34,111	172.8	23,491	275.1	10,620	94.8

Figure 11. Chlamydia by Year and Region

New York State, 2001-2017

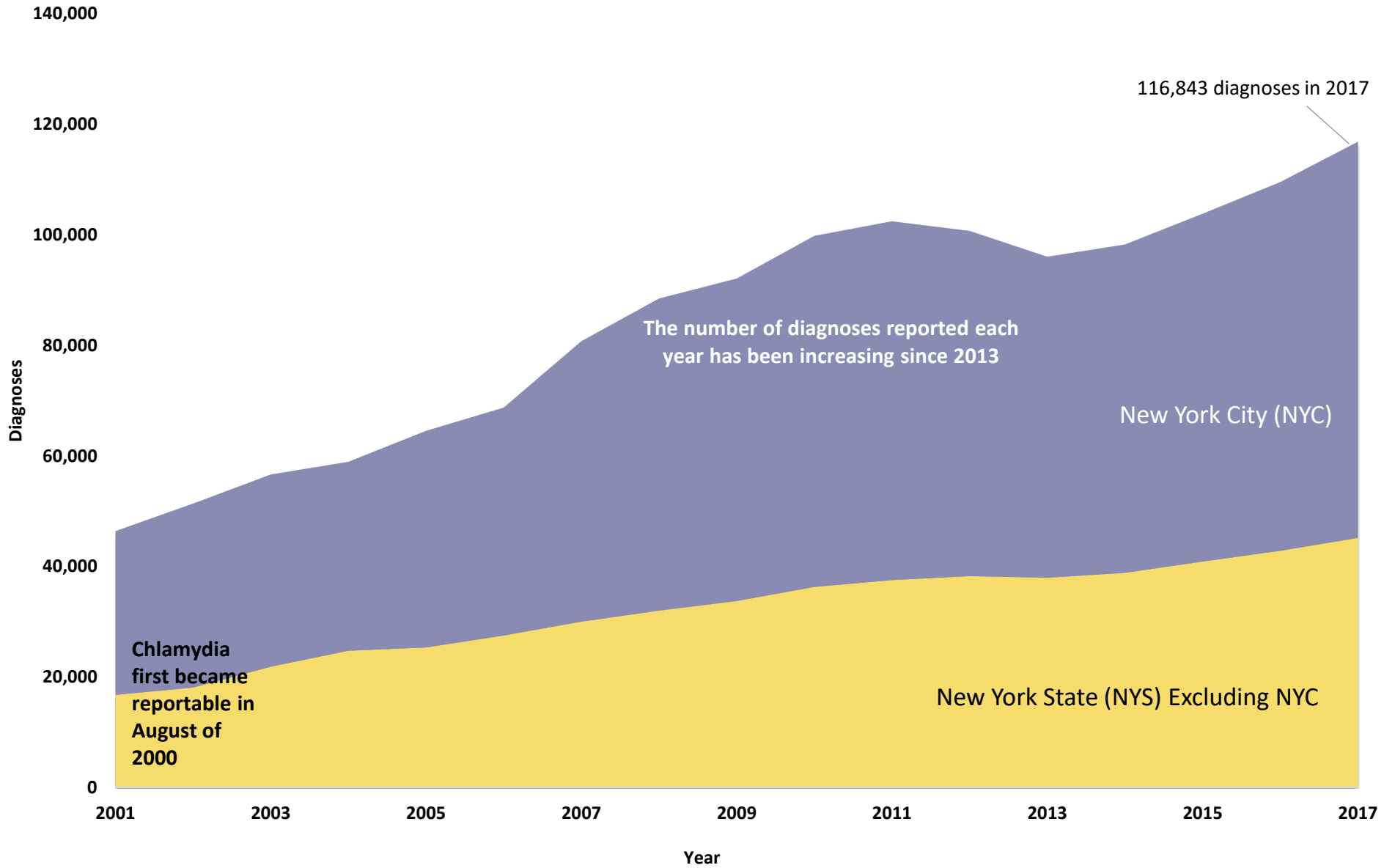
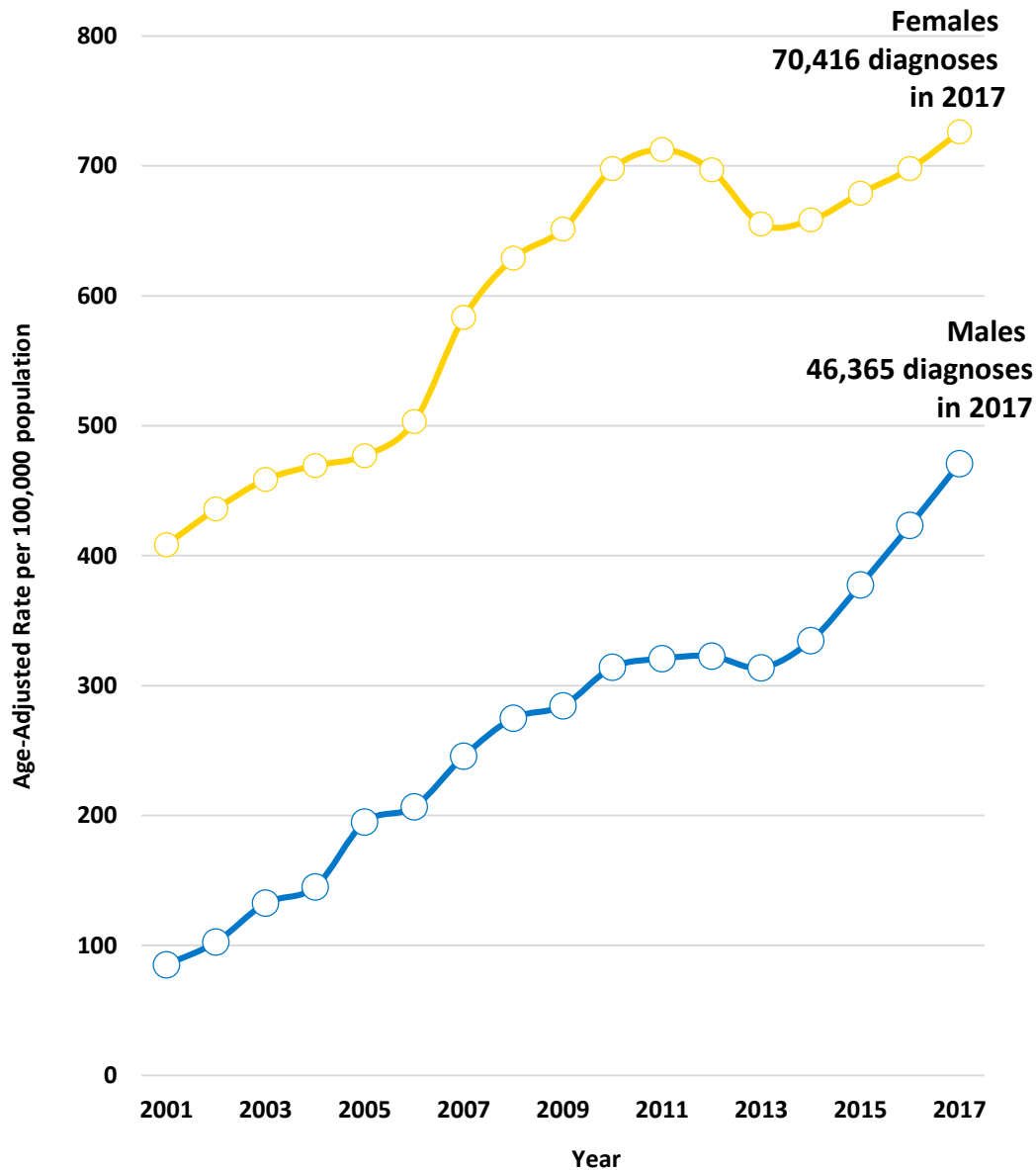


Figure 12. Chlamydia Rates by Sex and Year
New York State, 2001-2017

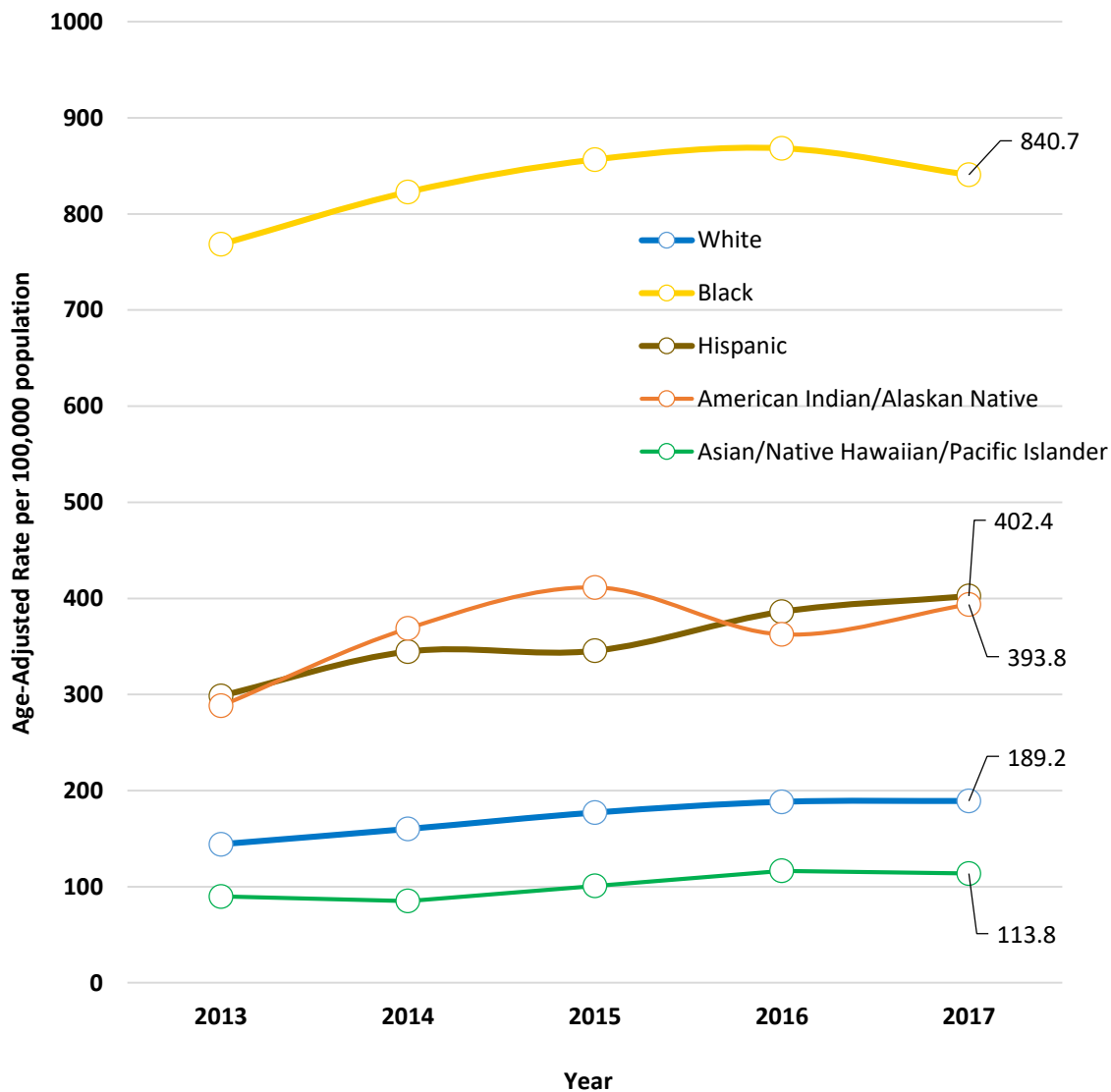


What this figure shows

The rates among females continue to be higher than males

The ratio of female to male diagnoses has decreased over time, from 4.8 in 2001 to 1.5 in 2017

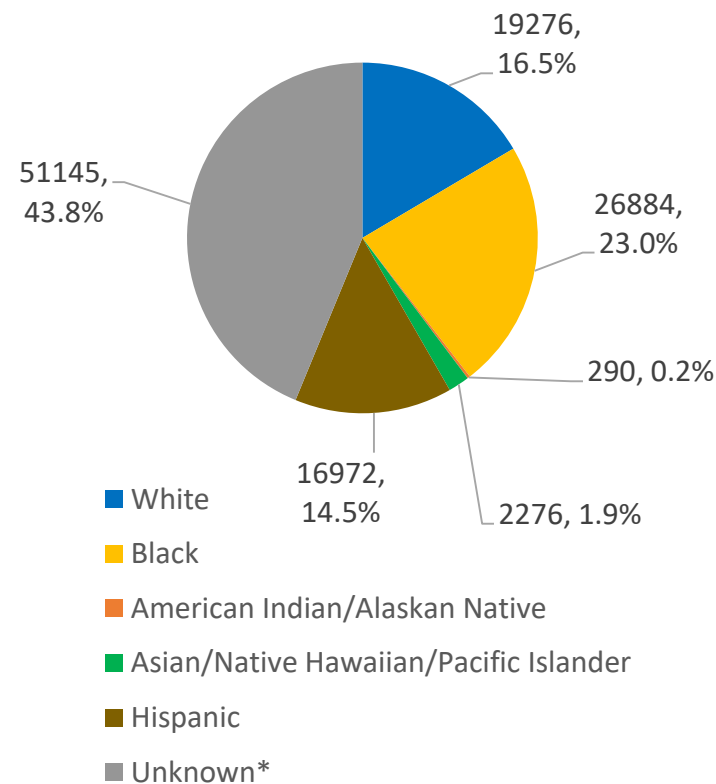
Figure 13. Chlamydia Rates by Race/Ethnicity and Year
New York State, 2013-2017



What this figure shows

Non-Hispanic black individuals are disproportionately impacted by chlamydia, followed by American Indian/Alaska Native and Hispanic individuals

2017 Diagnoses



*Data on race/ethnicity should be interpreted with caution given high proportion of diagnoses with unknown information

Figure 14. Chlamydia Rates by Age and Sex
New York State, 2017

What this figure shows

Rates among females 15-24 greatly exceed those among males of same age group

Rates are more similar among males and females over the age of 25

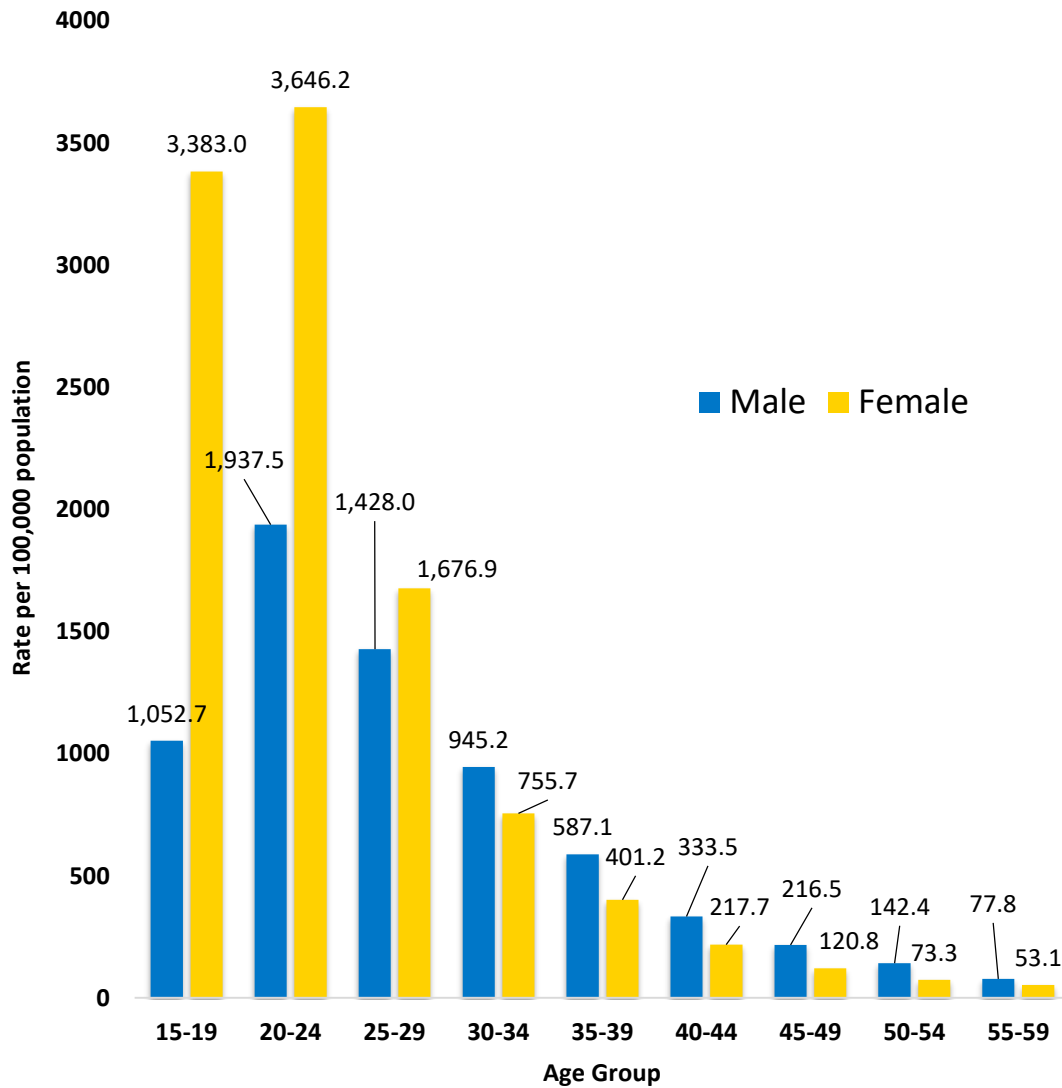


Table 14. Chlamydia by Region/County and Sex
New York State, 2017

Region/County	Male		Female		Total	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	46,365	470.9	70,416	726.1	116,843	596.6
New York City (NYC)	31,125	707.4	40,503	948.1	71,690	827.2
Bronx	6,357	822.5	11,340	1,444.3	17,718	1,127.9
Kings	8,793	655.4	12,344	936.5	21,146	795.2
New York	9,469	1,024.6	7,200	843.8	16,678	939.5
Queens	5,937	515.4	8,468	768.6	14,426	641.6
Richmond	569	252.2	1,151	519.5	1,722	384.1
NYS excl. NYC	15,240	275.8	29,913	559.7	45,153	414.0
Buffalo Region	2,598	347.8	5,226	726.2	7,824	532.6
Allegany	33	108.8	59	235.6	92	168.5
Cattaraugus	61	171.7	150	438.1	211	301.6
Chautauqua	176	276.4	373	622.4	549	443.5
Erie	1,916	422.9	3,655	822.0	5,571	619.6
Genesee	55	200.1	112	443.8	167	318.5
Niagara	285	292.6	728	776.5	1,013	531.0
Orleans	47	235.8	101	564.4	148	389.7
Wyoming	25	115.4	48	307.7	73	197.8
Capital Region	1,981	256.7	4,018	558.3	5,999	401.7
Albany	668	379.7	1,209	659.2	1,877	520.5
Clinton	96	197.6	180	404.3	276	296.6
Columbia	68	270.3	121	534.3	189	389.0
Delaware	24	110.3	61	306.0	85	200.8
Essex	21	112.0	57	430.6	78	247.8
Franklin	29	92.7	57	294.4	86	171.1
Fulton	43	177.7	123	560.3	166	360.9
Greene	43	178.6	86	499.0	129	305.8
Hamilton	2	146.1	3	204.6	5	175.5
Montgomery	47	216.1	151	725.7	198	465.5
Otsego	96	253.9	140	332.8	236	295.6
Rensselaer	246	285.7	492	657.4	738	457.5
Saratoga	179	168.4	428	441.9	607	299.4
Schenectady	284	382.3	591	819.0	875	596.6
Schoharie	25	152.2	68	442.3	93	294.1
Warren	71	263.8	131	493.5	202	377.7
Washington	39	128.5	120	512.9	159	296.3

Region/County	Male		Female		Total	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	2,417	259.9	4,596	510.4	7,013	381.9
Broome	229	229.9	461	447.7	690	335.8
Cayuga	76	204.0	179	542.9	255	363.1
Chenango	38	183.5	78	388.8	116	283.5
Cortland	70	235.3	101	311.3	171	274.1
Herkimer	38	133.8	86	324.9	124	227.1
Jefferson	325	385.5	462	835.1	787	569.8
Lewis	21	184.3	42	376.2	63	279.3
Madison	71	180.2	125	320.1	196	250.1
Oneida	265	232.7	576	553.1	841	385.5
Onondaga	895	392.8	1,789	746.8	2,684	572.1
Oswego	119	187.5	208	344.1	327	264.3
St Lawrence	87	126.8	177	302.0	264	208.4
Tioga	24	121.8	48	245.3	72	182.0
Tompkins	159	192.6	264	293.8	423	242.3
Rochester Region	2,318	370.9	4,128	671.3	6,446	518.6
Chemung	98	241.6	176	465.3	274	350.3
Livingston	41	109.1	102	272.5	143	188.6
Monroe	1,854	493.1	3,134	834.0	4,988	660.8
Ontario	109	212.0	209	419.2	318	312.6
Schuyler	12	158.2	22	311.8	34	233.6
Seneca	30	164.3	71	490.3	101	301.3
Steuben	72	173.5	201	497.2	273	332.2
Wayne	81	202.5	182	475.2	263	335.7
Yates	21	185.3	31	246.6	52	216.9
Hudson Valley	2,792	251.9	5,601	519.6	8,393	381.5
Dutchess	375	247.5	699	480.1	1,074	360.3
Orange	518	260.5	1,024	570.5	1,542	401.9
Putnam	51	114.2	131	315.4	182	209.2
Rockland	293	191.7	651	427.6	944	307.0
Sullivan	79	229.6	192	627.7	271	417.4
Ulster	196	232.0	372	461.5	568	344.8
Westchester	1,280	290.8	2,532	567.9	3,812	427.9
Long Island	3,134	235.0	6,344	486.8	9,478	358.0
Nassau	1,607	255.8	2,954	477.7	4,561	364.6
Suffolk	1,527	216.6	3,390	494.9	4,917	352.2

Table 15. Chlamydia by Sex and Age
New York State, 2017

Age(yrs)	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Male						
10-14	119	20.2	65	27.3	54	15.4
15-19	6,633	1,052.7	3,821	1,623.3	2,812	712.5
20-24	13,510	1,937.5	7,672	2,688.8	5,838	1,417.1
25-29	10,753	1,428.0	7,622	1,953.9	3,131	862.7
30-34	6,533	945.2	5,093	1,424.5	1,440	431.6
35-39	3,682	587.1	2,902	954.2	780	241.5
40-44	1,944	333.5	1,493	562.0	451	142.2
45-49	1,387	216.5	1,091	410.7	296	78.9
50-54	961	142.4	743	281.4	218	53.1
55-59	515	77.8	386	155.3	129	31.2
60-64	181	32.0	134	63.1	47	13.3
65-69	72	15.4	55	32.0	17	5.7
70+	41	5.0	28	9.3	13	2.5
Female						
10-14	750	133.1	488	213.0	262	78.4
15-19	20,545	3,383.0	11,177	4,826.5	9,368	2,493.3
20-24	25,327	3,646.2	13,592	4,486.8	11,735	2,996.1
25-29	12,588	1,676.9	7,716	1,862.2	4,872	1,448.6
30-34	5,259	755.7	3,385	911.3	1,874	577.6
35-39	2,589	401.2	1,693	527.0	896	276.4
40-44	1,322	217.7	920	323.4	402	124.6
45-49	813	120.8	580	201.8	233	60.4
50-54	526	73.3	411	142.0	115	26.9
55-59	379	53.1	292	103.5	87	20.1
60-64	165	26.4	135	53.6	30	8.0
65-69	51	9.4	36	16.6	15	4.6
70+	35	2.9	27	5.8	8	1.1

Age(yrs)	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Total						
10-14	869	75.5	553	118.4	316	46.2
15-19	27,180	2,196.6	15,000	3,212.2	12,180	1,581.0
20-24	38,846	2,790.9	21,273	3,616.2	17,573	2,186.7
25-29	23,364	1,553.8	15,361	1,909.5	8,003	1,144.5
30-34	11,803	850.9	8,489	1,164.5	3,314	503.6
35-39	6,280	493.5	4,604	736.2	1,676	259.0
40-44	3,268	274.6	2,415	439.0	853	133.3
45-49	2,204	167.8	1,675	302.8	529	69.5
50-54	1,488	106.9	1,155	208.7	333	39.7
55-59	895	65.0	679	127.9	216	25.5
60-64	346	29.0	269	57.9	77	10.6
65-69	123	12.2	91	23.4	32	5.2
70+	76	3.8	55	7.2	21	1.7

Table 16. Chlamydia among Young Females, by Age and Region/County
New York State, 2017

Region/County	15-19 yrs		20-24 yrs		15-24 yrs	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	20,545	3,383.0	25,327	3,646.2	45,872	3,523.4
New York City (NYC)	11,177	4,826.5	13,592	4,486.8	24,769	4,634.0
Bronx	3,710	7,598.7	3,818	6,565.9	7,528	7,037.3
Kings	3,384	4,711.1	4,075	4,493.0	7,459	4,589.4
New York	1,698	4,562.9	2,571	4,045.6	4,269	4,236.7
Queens	2,044	3,437.9	2,703	3,592.1	4,747	3,524.0
Richmond	341	2,392.3	425	2,780.0	766	2,592.9
NYS excl. NYC	9,368	2,493.3	11,735	2,996.1	21,103	2,749.9
Buffalo Region	1,777	3,619.9	2,061	4,066.1	3,838	3,846.6
Allegany	23	1,094.7	20	985.7	43	1,041.2
Cattaraugus	45	1,728.8	57	2,378.0	102	2,040.0
Chautauqua	134	2,891.0	135	3,349.9	269	3,104.4
Erie	1,220	4,168.9	1,455	4,606.6	2,675	4,396.1
Genesee	34	1,878.5	44	2,494.3	78	2,182.4
Niagara	265	4,121.9	284	4,352.5	549	4,238.1
Orleans	45	3,784.7	43	3,328.2	88	3,547.0
Wyoming	11	1,038.7	23	2,159.6	34	1,600.8
Capital Region	1,316	2,716.0	1,634	2,956.3	2,950	2,844.1
Albany	407	3,446.5	486	2,873.0	893	3,108.8
Clinton	53	1,808.9	87	2,144.4	140	2,003.7
Columbia	39	2,619.2	43	2,702.7	82	2,662.3
Delaware	33	2,131.8	17	1,273.4	50	1,734.3
Essex	12	1,234.6	27	3,161.6	39	2,135.8
Franklin	11	793.1	23	1,717.7	34	1,247.2
Fulton	35	2,301.1	60	4,070.6	95	3,172.0
Greene	32	2,841.9	30	2,525.3	62	2,679.3
Hamilton	1	1,063.8	2	1,923.1	3	1,515.2
Montgomery	51	3,510.0	53	3,737.7	104	3,622.4
Otsego	56	1,937.0	69	1,843.4	125	1,884.2
Rensselaer	164	3,302.5	177	3,415.0	341	3,359.9
Saratoga	138	1,988.2	191	2,948.4	329	2,451.7
Schenectady	189	3,900.9	224	4,376.7	413	4,145.3
Schoharie	28	2,321.7	29	2,658.1	57	2,481.5
Warren	29	1,706.9	65	3,553.9	94	2,664.4
Washington	38	2,411.2	51	3,284.0	89	2,844.4

Region/County	15-19 yrs		20-24 yrs		15-24 yrs	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	1,538	2,423.1	1,850	2,604.8	3,388	2,519.0
Broome	150	2,038.3	167	1,694.1	317	1,841.2
Cayuga	60	2,488.6	66	2,916.5	126	2,695.8
Chenango	27	1,810.9	28	2,078.7	55	1,938.0
Cortland	36	1,508.2	46	1,435.3	82	1,466.4
Herkimer	34	1,739.1	23	1,209.3	57	1,477.8
Jefferson	118	3,879.0	229	5,436.8	347	4,783.6
Lewis	15	1,760.6	13	1,738.0	28	1,750.0
Madison	43	1,346.3	52	1,733.3	95	1,533.7
Oneida	193	2,680.9	235	3,120.8	428	2,905.8
Onondaga	647	3,798.3	652	3,750.1	1,299	3,774.0
Oswego	70	1,539.5	96	2,240.9	166	1,879.7
St Lawrence	54	1,180.1	81	1,790.1	135	1,483.4
Tioga	14	964.9	23	1,738.5	37	1,333.8
Tompkins	77	1,288.7	139	1,472.3	216	1,401.1
Rochester Region	1,330	3,138.3	1,502	3,359.2	2,832	3,251.7
Chemung	64	2,384.5	55	2,033.3	119	2,208.2
Livingston	33	1,169.0	47	1,334.8	80	1,261.0
Monroe	1,043	4,127.1	1,094	4,042.7	2,137	4,083.5
Ontario	49	1,383.8	109	3,076.5	158	2,230.4
Schuyler	5	948.8	8	1,731.6	13	1,314.5
Seneca	9	974.0	35	3,475.7	44	2,278.6
Steuben	70	2,389.9	74	2,675.3	144	2,528.5
Wayne	46	1,670.9	68	2,643.9	114	2,140.8
Yates	11	1,186.6	12	1,115.2	23	1,148.3
Hudson Valley	1,617	2,025.6	2,221	2,892.4	3,838	2,450.6
Dutchess	199	1,831.2	294	2,636.3	493	2,239.0
Orange	316	2,328.2	409	3,214.7	725	2,757.1
Putnam	24	746.0	64	2,174.7	88	1,428.6
Rockland	191	1,639.6	241	2,191.5	432	1,907.6
Sullivan	47	2,174.9	75	3,562.9	122	2,859.8
Ulster	112	1,990.0	160	2,771.5	272	2,385.8
Westchester	728	2,223.9	978	3,145.3	1,706	2,672.8
Long Island	1,790	1,935.0	2,467	2,647.2	4,257	2,292.4
Nassau	801	1,831.1	1,128	2,572.6	1,929	2,202.3
Suffolk	989	2,028.2	1,339	2,713.4	2,328	2,372.9

Table 17. Chlamydia by Region/County and Year
New York State, 2015 to 2017

Region/County	2015		2016		2017	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
New York State (NYS)	103,825	526.8	109,549	559.0	116,843	596.6
New York City (NYC)	62,965	724.6	66,748	770.8	71,690	827.2
Bronx	16,610	1,050.5	17,060	1,087.8	17,718	1,127.9
Kings	18,388	688.0	19,935	750.5	21,146	795.2
New York	13,881	799.0	15,245	866.0	16,678	939.5
Queens	12,518	551.7	12,933	571.8	14,426	641.6
Richmond	1,568	346.7	1,575	351.7	1,722	384.1
NYS excl. NYC	40,860	372.2	42,801	392.4	45,153	414.0
Buffalo Region	7,218	488.5	7,604	519.9	7,824	532.6
Allegany	94	176.4	104	193.9	92	168.5
Cattaraugus	280	390.6	287	405.7	211	301.6
Chautauqua	499	391.8	539	439.4	549	443.5
Erie	5,063	562.2	5,201	580.3	5,571	619.6
Genesee	170	313.4	183	348.2	167	318.5
Niagara	837	435.3	1,051	554.6	1,013	531.0
Orleans	157	406.9	143	378.0	148	389.7
Wyoming	118	328.7	96	269.9	73	197.8
Capital Region	5,730	383.9	5,668	380.9	5,999	401.7
Albany	1,692	481.9	1,760	490.1	1,877	520.5
Clinton	336	370.5	281	308.2	276	296.6
Columbia	153	306.9	180	365.8	189	389.0
Delaware	153	351.7	104	254.3	85	200.8
Essex	42	132.2	50	160.4	78	247.8
Franklin	118	238.7	98	197.3	86	171.1
Fulton	200	428.5	167	362.7	166	360.9
Greene	151	359.8	130	307.4	129	305.8
Hamilton	7	246.7	13	477.8	5	175.5
Montgomery	157	361.1	130	301.9	198	465.5
Otsego	275	374.8	288	379.9	236	295.6
Rensselaer	703	431.5	631	392.4	738	457.5
Saratoga	523	259.4	549	272.0	607	299.4
Schenectady	789	538.5	831	571.0	875	596.6
Schoharie	122	383.1	116	382.3	93	294.1
Warren	164	307.0	191	362.1	202	377.7
Washington	145	263.7	149	276.2	159	296.3

Region/County	2015		2016		2017	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
Central Region	6,872	369.5	6,854	374.2	7,013	381.9
Broome	645	301.8	700	330.6	690	335.8
Cayuga	242	338.3	208	293.2	255	363.1
Chenango	126	303.9	103	249.3	116	283.5
Cortland	195	310.7	167	276.2	171	274.1
Herkimer	151	277.1	142	261.4	124	227.1
Jefferson	593	404.6	713	519.6	787	569.8
Lewis	45	193.9	32	138.5	63	279.3
Madison	165	223.2	194	253.5	196	250.1
Oneida	804	364.3	786	361.6	841	385.5
Onondaga	2,649	559.0	2,617	559.7	2,684	572.1
Oswego	478	381.6	377	304.4	327	264.3
St Lawrence	334	258.8	341	270.6	264	208.4
Tioga	103	252.6	100	246.7	72	182.0
Tompkins	342	208.7	374	221.7	423	242.3
Rochester Region	6,377	506.3	6,226	500.4	6,446	518.6
Chemung	385	483.3	324	410.3	274	350.3
Livingston	113	154.1	130	183.7	143	188.6
Monroe	4,735	619.5	4,706	622.3	4,988	660.8
Ontario	343	338.2	345	346.3	318	312.6
Schuyler	38	259.8	30	208.6	34	233.6
Seneca	100	297.8	111	344.2	101	301.3
Steuben	342	402.3	279	334.5	273	332.2
Wayne	257	328.2	243	314.1	263	335.7
Yates	64	256.8	58	242.3	52	216.9
Hudson Valley	7,148	325.0	7,911	358.6	8,393	381.5
Dutchess	907	302.8	926	311.9	1,074	360.3
Orange	1,216	319.3	1,410	364.5	1,542	401.9
Putnam	168	190.7	182	203.8	182	209.2
Rockland	762	247.2	822	264.2	944	307.0
Sullivan	246	379.3	259	397.5	271	417.4
Ulster	468	275.2	508	305.4	568	344.8
Westchester	3,381	381.1	3,804	427.3	3,812	427.9
Long Island	7,515	282.9	8,538	321.8	9,478	358.0
Nassau	3,551	284.4	4,032	322.8	4,561	364.6
Suffolk	3,964	281.5	4,506	320.9	4,917	352.2

Table 18. Chlamydia by Year and Region
New York State, 2001 - 2017

Year	New York State (NYS)		New York City (NYC)		NYS excl. NYC	
	Diagnoses	Rate	Diagnoses	Rate	Diagnoses	Rate
2001	46,402	251.9	29,649	398.2	16,753	155.5
2002	51,361	274.2	33,276	415.5	18,085	164.9
2003	56,633	303.7	34,779	434.3	21,854	199.2
2004	58,908	317.4	34,189	426.9	24,719	225.4
2005	64,526	337.4	39,215	489.7	25,311	230.8
2006	68,725	359.7	41,236	515.8	27,489	247.4
2007	80,734	422.0	50,755	633.3	29,979	269.6
2008	88,459	460.4	56,448	699.6	32,011	287.2
2009	92,075	476.9	58,353	717.6	33,722	301.7
2010	99,821	514.5	63,544	775.7	36,277	323.6
2011	102,460	524.9	64,966	784.2	37,494	333.7
2012	100,687	513.6	62,460	747.0	38,227	340.0
2013	96,020	488.1	58,098	689.8	37,922	337.1
2014	98,262	498.3	59,417	701.3	38,845	345.4
2015	103,825	525.8	62,965	739.3	40,860	363.8
2016	109,549	554.8	66,748	781.8	42,801	381.9
2017	116,843	591.8	71,690	839.7	45,153	402.9

Data Sources:

1. The 2017 STI morbidity data for New York State exclusive of New York City were obtained for diagnoses meeting federal case definition and reported by the 57 local health departments outside of New York City to the New York State Department of Health (NYS DOH) Communicable Disease Electronic Surveillance System (CDESS). STI Surveillance data in this report include diagnoses reported to CDESS in 2017 and closed by April 29, 2018.
2. The 2017 New York City STI morbidity data were obtained from data provided by the New York City Department of Health and Mental Hygiene (NYC DOHMH) Bureau of STI in July 2017. The Maven surveillance system is the source of surveillance information for STI diagnoses reported among residents of the five boroughs of New York City.
3. Rates were calculated using U.S. population data available from the National Cancer Institute Surveillance, Epidemiology, and End Results Program (SEER).¹ SEER population estimates were used to calculate rates by county, age, race/ethnicity, and sex. Rates are age-adjusted to the U.S. population to enable comparison of rates between areas or demographic groups with differing age structures.

¹Surveillance, Epidemiology, and End Results (SEER) Program Populations (1969–2016) (www.seer.cancer.gov/popdata), National Cancer Institute, DCCPS, Surveillance Research Program, released December, 2017

STI Statistics:

1. Reportable STIs in New York State include: syphilis, gonorrhea, chlamydia, chancroid, and lymphogranuloma venereum (LGV). Reporting requirements for granuloma inguinale are limited to residents of the five boroughs of New York City. Statistics for chancroid, granuloma inguinale, and LGV were not included in this report due to the small numbers of reported cases.
2. Individual STI diagnoses were aggregated at the state and county level, by disease, age, sex and race/ethnicity.
3. The STI rates were calculated by the number of STI diagnoses reported divided by the source population.
4. Race and ethnicity surveillance information is collected according to standards for the classification of federal data on race and ethnicity issued by the Office of Management and Budget. The race and ethnicity information presented in this report is based on the following categories: black, non-Hispanic; Hispanic (regardless of race designation); Asian, non-Hispanic (combined Asian and Native Hawaiian/Pacific Islander); and white, non-Hispanic. Limited data are presented for diagnoses reported among Native American/Alaskan Native, multi-race, or other race due to low numbers which make the interpretation of rates unreliable. Laboratories account for the majority of case reports, a source which does not routinely collect data on race/ethnicity. The amount of missing race/ethnicity data also limits the interpretation of race/ethnicity trends. Adjustments have not been made to records with missing race/ethnicity information.
5. Sex presented in this report is limitedly categorized into male and female only.
6. In 2005, CDC revised the definition for neurosyphilis. Neurological involvement can occur at any stage for syphilis diagnoses; thus, neurosyphilis is not classified as a separate stage for syphilis and is considered as a subset of syphilis diagnoses. NYC DOHMH began using the new case definition for neurosyphilis in 2005 and in the rest of the state, the new definition for neurosyphilis was adopted in 2006.

STI Statistics:

7. Chlamydia became reportable in New York State outside New York City in August 2000; thus, statewide trends are provided for 2001 - 2017.
8. Some diagnoses did not have valid information on age, sex, or race/ethnicity. They were included in the calculation for the total number of diagnoses, but not included in the calculation for the age-, sex-, and/or race/ethnicity-specific rates/incidence.
9. Strata in which there were no diagnoses reported are presented as “-”.
10. All data were analyzed using SAS® Version 9.4 software (SAS Institute, Inc., Cary, North Carolina).

Inquiries regarding this report should be directed to:

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For more information about NYC STI statistics, visit the following website:
<http://www.nyc.gov/html/doh/html/living/std-provider-stats.shtml>