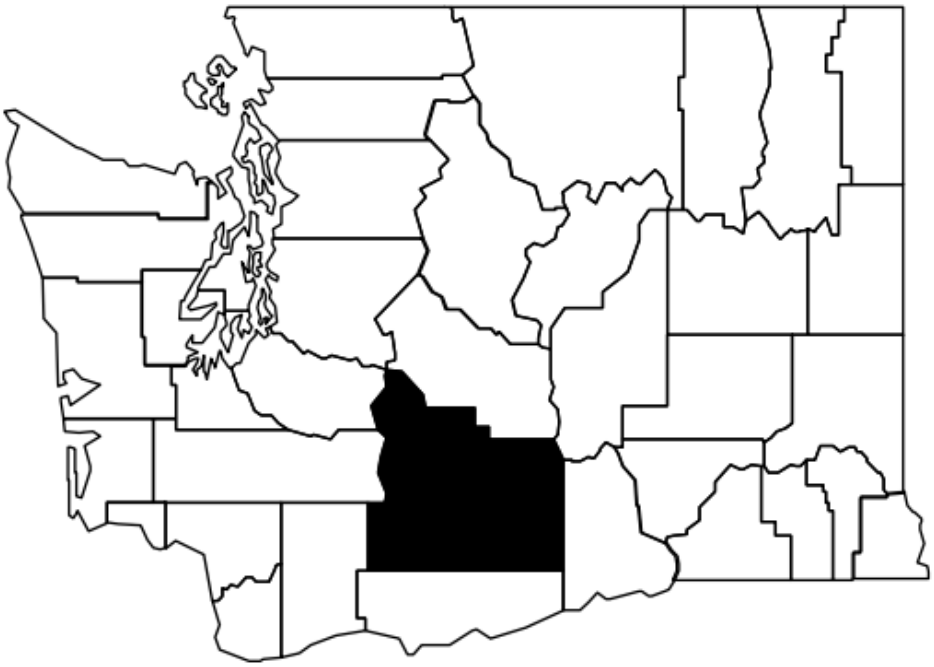
Sexually Transmitted Infection Profile

Yakima County 2020



Disease Control and Health Statistics
Infectious Disease Assessment Unit

Washington State Department of Health

DOH 150-156

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Infectious Disease Assessment Unit
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Contents

Introduction

Sexually transmitted infections (STIs) continue to be the most frequently diagnosed and reported notifiable conditions in Washington State. This report describes the STI burden in Yakima County. Data are presented for the more commonly reported diseases of chlamydial infection, gonorrhea, primary and secondary syphilis, and genital herpes. Figures are presented for chlamydial infection, gonorrhea, and primary and secondary syphilis, when at least ten (10) cases were diagnosed in 2020. The corresponding incidence rates are presented graphically when there are greater than sixteen (16) cases diagnosed within one year. The report concludes with tables containing a decade of historical data by age group and gender for chlamydial infection, gonorrhea, and primary and secondary syphilis, when at least twenty (20) cases were diagnosed in 2020. To protect patient confidentiality, data within these tables is suppressed if stratified counts are less than ten (10) or could be used to deduce other counts that are less than ten (10). Due to small number standards, gender data is only stratified by people who identify as male or female. People who identify as transgender, nonbinary, or other gender identity are included within the annual total case count. For this reason, total annual case counts may appear higher than the sum of individual cells.

Data Sources, Definitions and Limitations

Cases: Surveillance cases are the number of new episodes of disease (not unique persons) diagnosed in a given year. Cases are identified and submitted by health care providers to local health jurisdictions and entered into the Washington State Department of Health Public Health Information Management System – Sexually Transmitted Diseases (PHIMS-STD) data system. Additionally, cases of chlamydial infection reported through electronic lab reporting (ELR) alone are included in the final chlamydia case counts. To be included in surveillance reporting, each case must meet disease definitions (see below). Data presented in this report represent new cases of infection diagnosed during a given year and reported as of June 1, 2021.

Disease Definitions:

Chancroid – A sexually transmitted infection caused by the bacterium *Haemophilus ducreyi* that may include the symptoms of painful genital sores and swollen pelvic lymph nodes. Cases are defined by laboratory detection of *H. ducreyi* from a clinical specimen.

Chlamydia (CT) – A sexually transmitted infection caused by the bacterium *Chlamydia trachomatis* that may include the symptoms of swelling and pain in internal sexual organs, though the infection often has no symptoms in women. Cases are defined by laboratory detection of *C. trachomatis* from a clinical specimen.

Genital Herpes (HSV) – A sexually transmitted infection caused by the herpes simplex viruses type 1 and type 2 that may include the symptoms of blisters or sores in the genital area. Cases are defined by laboratory detection of herpes simplex virus (HSV1 or HSV2) or positive antibody response from a clinical

specimen. Reportable cases include only adult genital initial infection and neonatal infection.

Gonorrhea (GC) – A sexually transmitted infection caused by the bacterium *Neisseria gonorrhoeae* that may include the symptoms of swelling and pain in internal sexual organs, though the infection sometimes has no symptoms. Cases are defined by laboratory detection of the bacterium *N. gonorrhoeae* from a clinical specimen.

Granuloma Inguinale (GI) – A sexually transmitted infection caused by the bacterium *Klebsiella granulomatis* that may include the symptoms of slowly increasing genital sores and swollen pelvic lymph nodes. Cases are defined by microscopic examination of a clinical specimen.

Lymphogranuloma Venereum (LGV) – A sexually transmitted infection caused by three strains of *Chlamydia trachomatis* that may include the symptoms of genital sores and swollen pelvic lymph nodes. Cases are defined by laboratory detection of the L1, L2 and L3 serovars of *C. trachomatis* from a clinical specimen.

Syphilis – A sexually transmitted infection caused by the bacterium *Treponema pallidum* that may include many kinds of symptoms or none at all, depending upon the stage of disease. Cases are defined and assigned a stage by a combination of positive blood tests, symptoms, and history of previous treatment. The U.S. Centers for Disease Control and Prevention (CDC) provides guidelines with additional details of surveillance definitions and staging criteria. The stages of primary and secondary (P&S) syphilis are grouped together for analysis in this report; these stages are the most infectious and the best indicators of recent infection.

Primary – identified by the presence of one or many painless sores.

Secondary – identified by the presence of a rash on one or more areas of the body, often with fever, fatigue or other symptoms at the same time.

Other Stages – additional stages of syphilis include early non-primary non-secondary, unknown duration or late, congenital, and syphilitic stillbirths. See CDC guidelines for specific criteria: www.cdc.gov/std/

Incidence Rates: Incidence rates in this report are calculated as the number of new episodes of a disease (not unique persons) diagnosed in a given year divided by the total population (age- and sex-adjusted) for that year, expressed as a rate per 100,000. Incidence rates allow comparisons between two or more populations by standardizing the denominator and are the most appropriate statistic to use when investigating differences between groups. Rates are not presented when there were fewer than 17 cases of disease reported due to statistical instability concerns.

Limitations: The data presented in this report may be subject to a number of limiting factors. Clinically diagnosed cases (without laboratory confirmation) may be missed through public health surveillance systems. Depending upon diagnosing practices, completeness of reporting may vary by the source of health care. In addition, the diagnosing practitioner is responsible for providing the case information including the patient demographic data items of age and gender upon which many of the analyses in this report depend. Biases could exist in the data due to under-reporting, inability of certain populations to access medical services, errors in laboratory reporting, or differential reporting or screening by disease and source of care. Also, small increases or decreases

in numbers from year to year can look large if the actual number of cases is small. Care should be taken in interpreting these data in light of known limitations.

Population: Denominator population estimates for 2001-2020 incidence rates are from Washington State Adjusted Population Estimates, Office of Financial Management (OFM), http://www.ofm.wa.gov/pop/. Denominator population estimates for 2020 are based on 6-year (2014-2019) extrapolations.

Tabular Data: The data tables are provided in hopes that community and local partners will use these historical data as a resource for future health planning. Data tables for additional years previous are available upon request.

Anyone with specific questions about how these data should be interpreted is encouraged to contact the Infectious Disease Assessment Unit's STI Surveillance team at 360-236-3445.

Yakima County STI Disease Trends

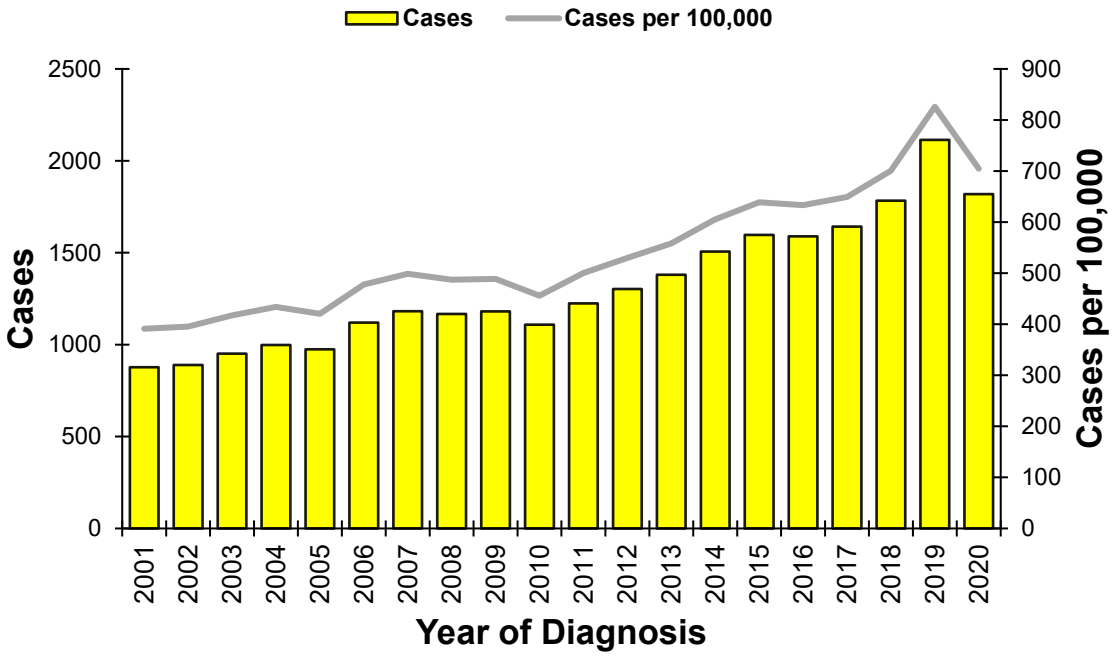
Table 1. Washington State Reportable Sexually Transmitted Infections, Yakima County, 2020

Disease	County Cases	County Rate§	WA State Rate
Chlamydia	1,819	704.5	410.4
Gonorrhea	584	226.2	151.2
P&S Syphilis	22	8.5	10.9
Genital Herpes	29	11.2	18.0
Chancroid/GI/LGV	0		
Total	2,454		

§ Crude incidence rate per 100,000 population.
+ Rates are suppressed for counts under 17 with a corresponding RSE >25% due to statistical instability.

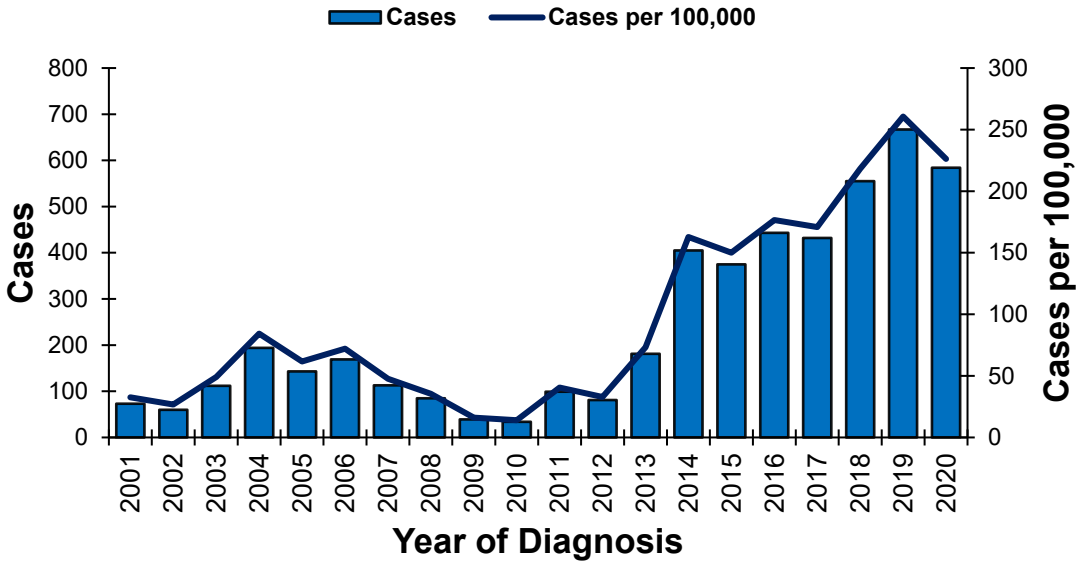
Chlamydia

Figure 1. Chlamydia Cases, Yakima County, 2001-2020



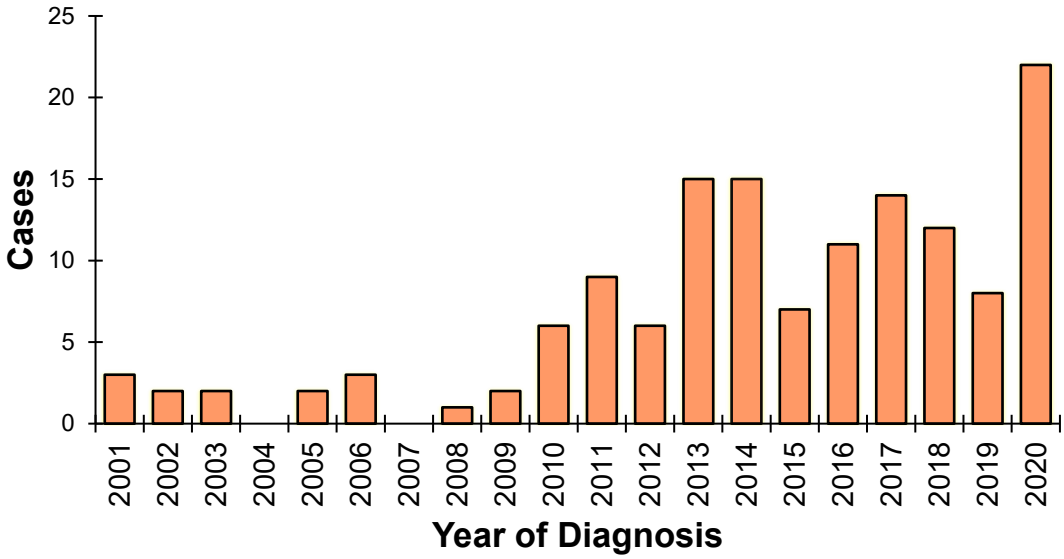
Gonorrhea

Figure 2. Gonorrhea Cases, Yakima County, 2001-2020



Primary and Secondary Syphilis

Figure 3. Primary and Secondary Syphilis Cases, Yakima County, 2001-2020



Note: Incidence rates calculated based off counts less than seventeen (17) are suppressed in this figure due to statistical instability.

Data Tables

Table 2. Chlamydia Cases and Incidence Rates by Gender and Age Group, 2011-2020

	Age Group	Total		Males		Females	
		Cases	Rate	Cases	Rate	Cases	Rate
2011	0-14	13	+	0	0.0	13	+
	15-24	840	2392.0	120	648.7	720	4332.5
	25-34	281	868.7	73	458.1	208	1267.3
	35-44	74	249.6	+	+	+	+
	45+	16	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1224	500.2	216	176.7	1008	823.2
2012	0-14	17	26.9	+	+	+	+
	15-24	885	2589.3	167	923.4	718	4461.3
	25-34	304	932.3	71	445.2	233	1398.8
	35-44	75	249.9	13	+	62	407.9
	45+	21	24.5	+	+	+	+
	Missing	1	+	0	0.0	1	+
	All Ages	1303	529.7	260	211.8	1043	846.5
2013	0-14	12	+	+	+	+	+
	15-24	928	2789.1	171	967.4	757	4853.8
	25-34	316	972.2	65	411.8	251	1501.3
	35-44	95	312.0	33	222.4	62	397.1
	45+	29	33.3	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1380	558.1	280	227.3	1100	886.7
2014	0-14	14	+	0	0.0	14	+
	15-24	971	2963.4	199	1138.5	772	5050.3
	25-34	393	1228.3	103	665.7	290	1755.2
	35-44	97	315.0	30	202.0	67	420.4
	45+	30	33.8	15	+	15	+
	Missing	1	+	0	0.0	1	+
	All Ages	1506	605.3	348	281.0	1158	926.7
2015	0-14	+	+	+	+	+	+
	15-24	946	2984.8	214	1254.8	732	5000.3
	25-34	461	1475.5	125	838.2	336	2057.5
	35-44	144	463.5	41	278.1	103	631.1
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1597	638.9	401	322.7	1196	951.3

+Data has been suppressed where counts are less than ten (10) or could be used to deduce other counts that are less than ten (10). Additionally, incidence rates calculated based off counts less than seventeen (17) are suppressed due to statistical instability.

Continued Table 2. Chlamydia

	Age Group	Total		Males		Females	
		Cases	Rate	Cases	Rate	Cases	Rate
2016	0-14	+	+	+	+	+	+
	15-24	946	2841.0	219	1234.3	727	4673.9
	25-34	483	1687.1	159	1133.7	324	2218.7
	35-44	119	384.2	44	299.4	75	460.7
	45+	+	+	+	+	+	+
	Missing	1	+	0	0.0	1	+
	All Ages	1589	633.3	435	348.0	1154	916.5
2017	0-14	16	+	+	+	+	+
	15-24	987	2898.2	246	1362.5	741	4631.2
	25-34	474	1681.5	145	1036.5	329	2317.0
	35-44	130	420.8	47	320.5	83	511.6
	45+	35	37.2	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1642	649.0	462	366.4	1180	929.9
2018	0-14	14	+	+	+	+	+
	15-24	1013	2917.8	213	1165.1	800	4867.1
	25-34	550	1943.0	173	1216.0	377	2677.6
	35-44	167	543.2	61	416.7	106	658.3
	45+	39	41.0	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1783	700.6	468	368.9	1315	1030.2
2019	0-14	21	32.2	+	+	+	+
	15-24	1297	3654.8	320	1719.2	977	5790.0
	25-34	550	1920.4	192	1321.6	358	2537.0
	35-44	171	559.9	59	404.2	112	702.4
	45+	74	77.0	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	2114	825.9	610	477.6	1503	1172.2
2020	0-14	19	29.2	+	+	+	+
	15-24	1058	2909.2	278	1461.6	780	4496.7
	25-34	512	1759.2	170	1143.4	342	2402.4
	35-44	166	547.0	65	446.5	101	639.6
	45+	63	64.7	+	+	+	+
	Missing	1	+	1	+	0	0.0
	All Ages	1819	704.5	559	433.5	1260	974.8

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Note: Due to small number standards, gender data is only stratified by people who identify as male or female. People who identify as transgender, nonbinary, or other gender identity are included within the annual total case count. For this reason, total annual case counts may appear higher than the sum of individual cells.

Table 3. Gonorrhea Cases and Incidence Rates by Gender and Age Group, 2011-2020

	Age Group	Total		Males		Females	
		Cases	Rate	Cases	Rate	Cases	Rate
2011	0-14	+	+	0	0.0	+	+
	15-24	46	131.0	17	91.9	29	174.5
	25-34	37	114.4	18	113.0	19	115.8
	35-44	+	+	+	+	+	+
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	99	40.5	46	37.6	53	43.3
2012	0-14	+	+	0	0.0	+	+
	15-24	37	108.3	16	+	21	130.5
	25-34	24	73.6	12	+	12	+
	35-44	14	+	+	+	+	+
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	81	32.9	40	32.6	41	33.3
2013	0-14	0	0.0	0	0.0	0	0.0
	15-24	79	237.4	41	231.9	38	243.7
	25-34	66	203.1	34	215.4	32	191.4
	35-44	+	+	+	+	+	+
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	181	73.2	92	74.7	89	71.7
2014	0-14	0	0.0	0	0.0	0	0.0
	15-24	158	482.2	71	406.2	87	569.1
	25-34	147	459.4	70	452.4	77	466.0
	35-44	66	214.3	+	+	+	+
	45+	34	38.3	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	405	162.8	205	165.5	200	160.0
2015	0-14	+	+	0	0.0	+	+
	15-24	132	416.5	57	334.2	75	512.3
	25-34	150	480.1	76	509.6	74	453.1
	35-44	66	212.5	34	230.6	32	196.1
	45+	+	+	10	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	375	150.0	179	144.1	196	155.9

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Continued Table 3. Gonorrhea

	Age Group	Total		Males		Females	
		Cases	Rate	Cases	Rate	Cases	Rate
2016	0-14	+	+	0	0.0	+	+
	15-24	161	483.5	89	501.6	72	462.9
	25-34	178	621.8	83	591.8	95	650.5
	35-44	71	229.2	36	245.0	35	215.0
	45+	+	+	19	42.8	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	443	176.6	227	181.6	216	171.5
2017	0-14	+	+	+	+	+	+
	15-24	145	425.8	63	348.9	82	512.5
	25-34	183	649.2	97	693.4	86	605.7
	35-44	68	220.1	37	252.3	31	191.1
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	432	170.8	222	176.0	210	165.5
2018	0-14	+	+	+	+	0	0.0
	15-24	178	512.7	79	432.1	99	602.3
	25-34	248	876.1	126	885.6	122	866.5
	35-44	92	299.3	+	+	+	+
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	555	218.1	285	224.7	270	211.5
2019	0-14	+	+	+	+	+	+
	15-24	189	532.6	80	429.8	109	646.0
	25-34	297	1037.0	166	1142.6	131	928.3
	35-44	131	428.9	72	493.3	59	370.0
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	667	260.6	352	275.6	315	245.7
2020	0-14	+	+	+	+	+	+
	15-24	151	415.2	71	373.3	80	461.2
	25-34	237	814.3	128	860.9	109	765.7
	35-44	136	448.1	73	501.4	63	399.0
	45+	+	+	+	+	+	+
	Missing	1	+	1	+	0	0.0
	All Ages	584	226.2	317	245.9	267	206.6

+Data has been suppressed where counts are less than ten (10) or could be used to deduce other counts that are less than ten (10). Additionally, incidence rates calculated based off counts less than seventeen (17) are suppressed due to statistical instability.

Table 4. P&S Syphilis Cases and Incidence Rates by Gender and Age Group, 2011-2020

		Total		Males		Females	
	Age Group	*Cases*	*Rate*	*Cases*	*Rate*	*Cases*	*Rate*
2011	0-14	*	*	*	*	*	*
	15-24	*	*	*	*	*	*
	25-34	*	*	*	*	*	*
	35-44	*	*	*	*	*	*
	45+	*	*	*	*	*	*
	Missing	*	*	*	*	*	*
	All Ages	9	*	*	*	*	*
2012	0-14	*	*	*	*	*	*
	15-24	*	*	*	*	*	*
	25-34	*	*	*	*	*	*
	35-44	*	*	*	*	*	*
	45+	*	*	*	*	*	*
	Missing	*	*	*	*	*	*
	All Ages	6	*	*	*	*	*
2013	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	0	0.0
	25-34	+	+	+	+	0	0.0
	35-44	+	+	+	+	0	0.0
	45+	+	+	+	+	0	0.0
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	15	+	+	+	+	+
2014	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	0	0.0
	25-34	+	+	+	+	0	0.0
	35-44	+	+	+	+	0	0.0
	45+	+	+	+	+	0	0.0
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	15	+	15	+	0	0.0
2015	0-14	*	*	*	*	*	*
	15-24	*	*	*	*	*	*
	25-34	*	*	*	*	*	*
	35-44	*	*	*	*	*	*
	45+	*	*	*	*	*	*
	Missing	*	*	*	*	*	*
	All Ages	7	*	*	*	*	*

*For years with total case counts less than ten (10), stratified counts and rates have been fully suppressed to protect patient confidentiality.

+Data has been suppressed where counts are less than ten (10) or could be used to deduce other counts that are less than ten (10). Additionally, incidence rates calculated based off counts less than seventeen (17) are suppressed due to statistical instability.

Continued Table 4. P&S Syphilis

		Total		Males		Females	
	Age Group	*Cases*	*Rate*	*Cases*	*Rate*	*Cases*	*Rate*
2016	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	+	+
	25-34	+	+	+	+	+	+
	35-44	0	0.0	0	0.0	0	0.0
	45+	+	+	0	0.0	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	11	+	+	+	+	+
2017	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	0	0.0
	25-34	+	+	+	+	+	+
	35-44	+	+	+	+	+	+
	45+	+	+	+	+	0	0.0
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	14	+	+	+	+	+
2018	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	0	0.0
	25-34	+	+	+	+	0	0.0
	35-44	+	+	+	+	+	+
	45+	+	+	+	+	0	0.0
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	12	+	+	+	+	+
2019	0-14	*	*	*	*	*	*
	15-24	*	*	*	*	*	*
	25-34	*	*	*	*	*	*
	35-44	*	*	*	*	*	*
	45+	*	*	*	*	*	*
	Missing	*	*	*	*	*	*
	All Ages	8	*	*	*	*	*
2020	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	+	+
	25-34	+	+	+	+	+	+
	35-44	+	+	+	+	0	0.0
	45+	+	+	+	+	0	0.0
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	22	8.5	+	+	+	+

*For years with total case counts less than ten (10), stratified counts and rates have been fully suppressed to protect patient confidentiality.

+Data has been suppressed where counts are less than ten (10) or could be used to deduce other counts that are less than ten (10). Additionally, incidence rates calculated based off counts less than seventeen (17) are suppressed due to statistical instability.