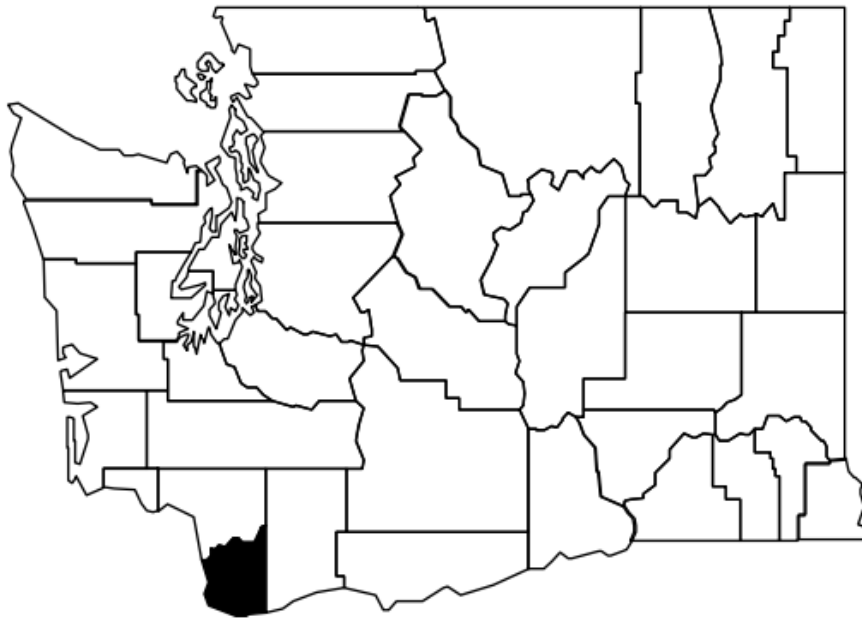


Sexually Transmitted Infection Profile

Clark County 2020



Disease Control and Health Statistics
Infectious Disease Assessment Unit



DOH 150-156

Sexually Transmitted Infection Profile

Clark County 2020



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Disease Control and Health Statistics
Infectious Disease Assessment Unit
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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 Clark 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.

Clark County STI Disease Trends

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

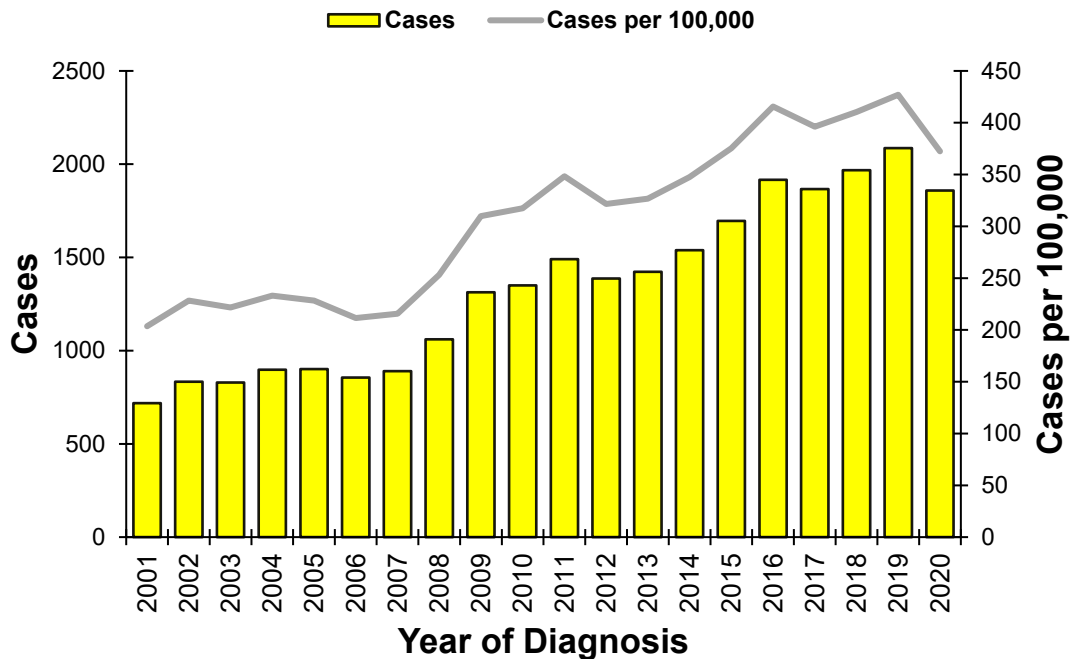
Disease	County Cases	County Rate§	WA State Rate
Chlamydia	1,859	372.4	410.4
Gonorrhea	677	135.6	151.2
P&S Syphilis	62	12.4	10.9
Genital Herpes	136	27.2	18.0
Chancroid/GI/LGV	0		
Total	2,734		

§ Crude incidence rate per 100,000 population.

+ Rates are suppressed for counts under 17 with a corresponding RSE >25% due to statistical instability.

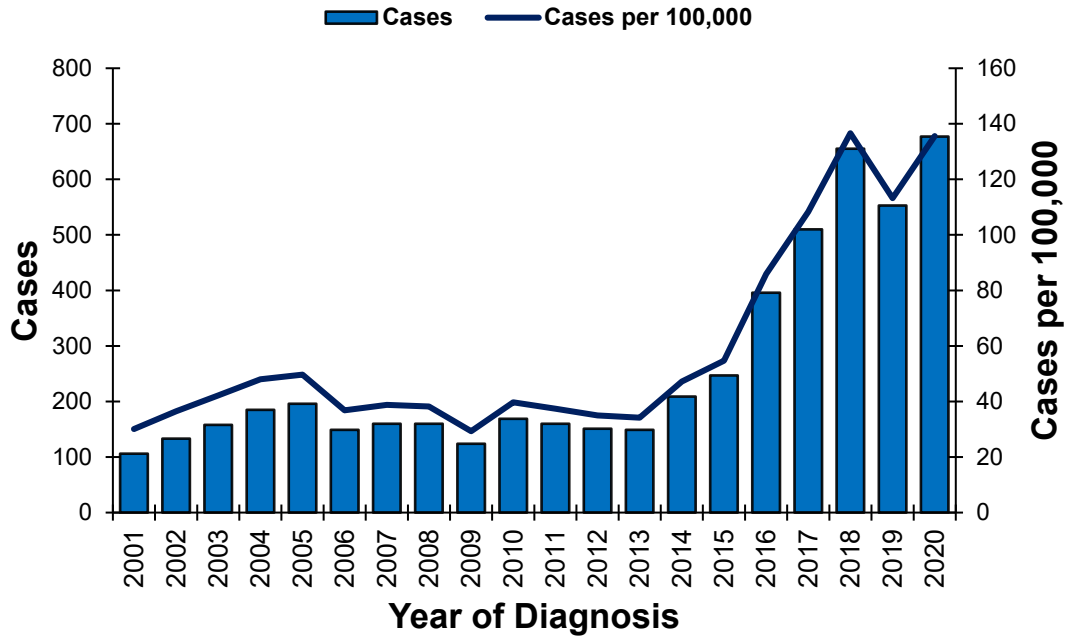
Chlamydia

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



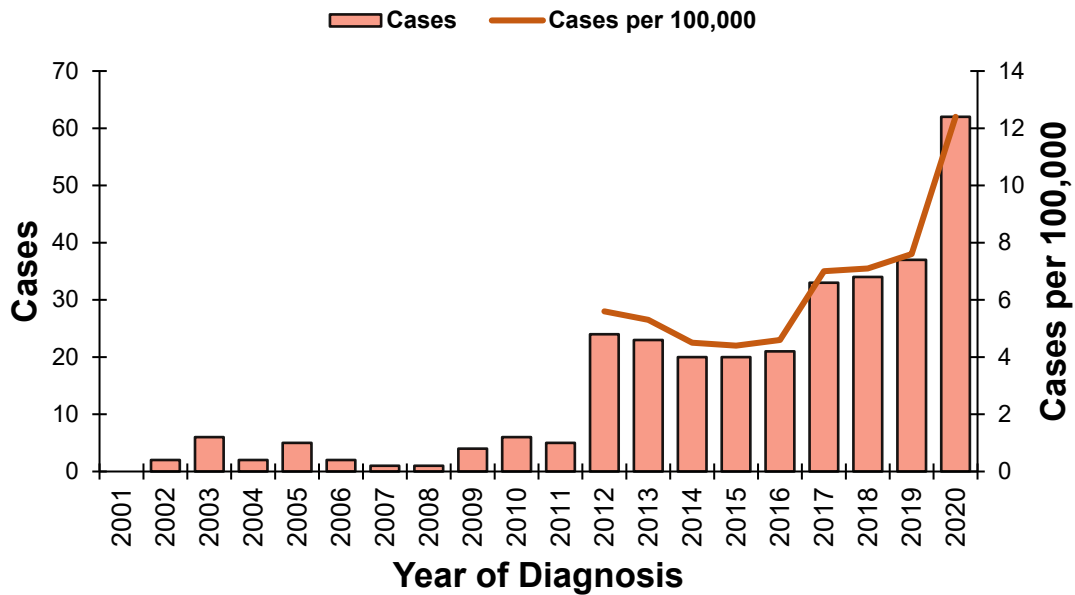
Gonorrhea

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



Primary and Secondary Syphilis

Figure 3. Primary and Secondary Syphilis Cases, Clark 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	+	+	0	0.0	+	+
	15-24	1047	1888.9	202	717.0	845	3100.2
	25-34	346	635.9	113	423.4	233	840.7
	35-44	72	120.8	+	+	+	+
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1491	348.4	361	170.8	1130	521.6
2012	0-14	+	+	0	0.0	+	+
	15-24	980	1738.9	173	603.7	807	2913.4
	25-34	299	547.3	98	364.3	201	724.9
	35-44	77	129.6	37	124.8	40	134.3
	45+	+	+	18	22.2	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1387	321.6	326	153.1	1061	486.1
2013	0-14	15	+	+	+	+	+
	15-24	927	1617.7	169	580.6	758	2688.3
	25-34	350	639.8	128	473.4	222	802.6
	35-44	103	173.8	43	145.8	60	201.6
	45+	24	13.8	+	+	+	+
	Missing	4	+	0	0.0	4	+
	All Ages	1423	326.8	352	163.6	1071	486.1
2014	0-14	11	+	+	+	+	+
	15-24	942	1626.4	180	611.3	762	2675.9
	25-34	412	746.8	140	513.1	272	975.5
	35-44	135	227.0	63	212.9	72	240.9
	45+	39	21.7	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1539	347.6	417	190.6	1122	500.9
2015	0-14	13	+	+	+	+	+
	15-24	1075	1835.2	225	756.3	850	2948.8
	25-34	433	776.9	156	565.6	277	984.0
	35-44	140	233.5	63	211.2	77	255.5
	45+	35	18.8	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1696	375.4	465	208.4	1231	538.4

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Continued Table 2. Chlamydia

	Age Group	Total		Males		Females	
		Cases	Rate	Cases	Rate	Cases	Rate
2016	0-14	16	+	0	0.0	16	+
	15-24	1196	2030.1	291	971.2	905	3125.8
	25-34	505	925.9	180	668.7	325	1176.5
	35-44	149	247.0	63	210.0	86	283.6
	45+	50	25.5	39	41.5	11	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1916	415.6	573	251.5	1343	576.0
2017	0-14	10	+	0	0.0	10	+
	15-24	1184	2004.2	304	1011.3	880	3032.8
	25-34	469	850.5	189	695.5	280	1001.1
	35-44	139	226.6	74	242.5	65	211.0
	45+	64	31.5	36	37.0	28	26.5
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1866	396.2	603	259.1	1263	530.0
2018	0-14	+	+	0	0.0	+	+
	15-24	1211	2042.1	291	965.6	919	3151.2
	25-34	489	870.1	191	689.7	297	1041.8
	35-44	176	282.4	87	280.2	89	284.6
	45+	+	+	53	53.0	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1968	410.4	622	262.6	1344	553.9
2019	0-14	+	+	0	0.0	+	+
	15-24	1295	2168.8	342	1126.1	953	3247.9
	25-34	516	897.5	225	795.2	291	996.7
	35-44	169	266.2	88	278.0	81	254.5
	45+	+	+	63	61.5	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	2086	427.0	718	297.6	1367	553.0
2020	0-14	+	+	0	0.0	+	+
	15-24	1104	1837.1	267	872.7	837	2837.6
	25-34	525	890.7	237	818.1	288	960.8
	35-44	132	203.4	57	176.1	75	230.6
	45+	+	+	55	52.2	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	1859	372.4	616	250.0	1243	491.6

+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.

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	0	0.0	0	0.0
	15-24	73	131.7	31	110.0	42	154.1
	25-34	52	95.6	25	93.7	27	97.4
	35-44	18	30.2	+	+	+	+
	45+	17	10.2	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	160	37.4	83	39.3	77	35.5
2012	0-14	0	0.0	0	0.0	0	0.0
	15-24	58	102.9	31	108.2	27	97.5
	25-34	55	100.7	22	81.8	33	119.0
	35-44	21	35.3	+	+	+	+
	45+	17	10.0	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	151	35.0	82	38.5	69	31.6
2013	0-14	+	+	+	+	+	+
	15-24	48	83.8	19	65.3	29	102.9
	25-34	66	120.7	44	162.7	22	79.5
	35-44	22	37.1	+	+	+	+
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	149	34.2	90	41.8	59	26.8
2014	0-14	0	0.0	0	0.0	0	0.0
	15-24	71	122.6	32	108.7	39	137.0
	25-34	80	145.0	58	212.6	22	78.9
	35-44	42	70.6	+	+	+	+
	45+	15	+	+	+	+	+
	Missing	1	+	1	+	0	0.0
	All Ages	209	47.2	138	63.1	71	31.7
2015	0-14	+	+	+	+	+	+
	15-24	87	148.5	37	124.4	50	173.5
	25-34	81	145.3	53	192.1	28	99.5
	35-44	55	91.7	41	137.5	14	+
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	247	54.7	151	67.7	96	42.0

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Continued Table 3. Gonorrhea

	Age Group	Total		Males		Females	
		Cases	Rate	Cases	Rate	Cases	Rate
2016	0-14	+	+	+	+	+	+
	15-24	155	263.1	80	267.0	75	259.0
	25-34	122	223.7	74	274.9	48	173.8
	35-44	78	129.3	51	170.0	27	89.0
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	396	85.9	236	103.6	160	68.6
2017	0-14	0	0.0	0	0.0	0	0.0
	15-24	169	286.1	75	249.5	94	324.0
	25-34	181	328.2	103	379.0	78	278.9
	35-44	119	194.0	80	262.1	39	126.6
	45+	41	20.2	27	27.7	14	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	510	108.3	285	122.5	225	94.4
2018	0-14	+	+	0	0.0	+	+
	15-24	233	392.9	107	355.0	125	428.6
	25-34	222	395.0	122	440.5	99	347.3
	35-44	128	205.4	77	248.0	51	163.1
	45+	+	+	54	54.0	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	655	136.6	360	152.0	293	120.7
2019	0-14	+	+	0	0.0	+	+
	15-24	175	293.1	76	250.3	99	337.4
	25-34	192	334.0	118	417.0	74	253.4
	35-44	111	174.9	80	252.7	31	97.4
	45+	+	+	59	57.6	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	553	113.2	333	138.0	220	89.0
2020	0-14	+	+	0	0.0	+	+
	15-24	199	331.2	89	290.9	110	372.9
	25-34	240	407.2	125	431.5	115	383.7
	35-44	148	228.0	93	287.3	55	169.1
	45+	+	+	64	60.7	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	677	135.6	371	150.6	306	121.0

+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

Age Group	Total		Males		Females		
	Cases	Rate	Cases	Rate	Cases	Rate	
2011	0-14	*	*	*	*	*	
	15-24	*	*	*	*		
	25-34	*	*	*	*		
	35-44	*	*	*	*		
	45+	*	*	*	*		
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	5	*	*	*	*	*
2012	0-14	0	0.0	0	0.0	0.0	0.0
	15-24	+	+	+	+	+	+
	25-34	+	+	+	+	0.0	0.0
	35-44	+	+	+	+	0.0	0.0
	45+	+	+	+	+	0.0	0.0
	Missing	0	0.0	0	0.0	0.0	0.0
	All Ages	24	5.6	+	+	+	+
2013	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	+	+
	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	23	5.3	+	+	+	+
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	20	4.5	20	9.1	0	0.0
2015	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	0	0.0
	25-34	+	+	+	+	+	+
	35-44	+	+	+	+	0	0.0
	45+	+	+	+	+	0	0.0
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	20	4.4	+	+	+	+

*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

Age Group	Total		Males		Females		
	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
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	21	4.6	+	+	+	+
2017	0-14	0	0.0	0	0.0	0	0.0
	15-24	10	+	+	+	+	+
	25-34	+	+	+	+	+	+
	35-44	+	+	+	+	+	+
	45+	10	+	10	+	0	0.0
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	33	7.0	+	+	+	+
2018	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	0	0.0
	25-34	12	+	+	+	+	+
	35-44	+	+	+	+	+	+
	45+	10	+	10	+	0	0.0
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	34	7.1	+	+	+	+
2019	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	+	+
	25-34	18	31.3	+	+	+	+
	35-44	+	+	+	+	+	+
	45+	+	+	+	+	0	0.0
	Missing	0	0.0	0	0.0	0	0.0
	All Ages	37	7.6	+	+	+	+
2020	0-14	0	0.0	0	0.0	0	0.0
	15-24	+	+	+	+	+	+
	25-34	23	39.0	+	+	+	+
	35-44	18	27.7	+	+	+	+
	45+	+	+	+	+	+	+
	Missing	0	0.0	0	0	0	0.0
	All Ages	62	12.4	50	20	12	+

*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.