

2004 Minnesota Sexually Transmitted Disease Statistics

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<u>Overview of Statistics and Highlights:</u> The number of cases and rates (per 100,000 persons) for all reportable bacterial sexually transmitted diseases (STDs) for the years 2000 through 2004 are presented in Table 1 by year of diagnosis. Table 2 displays chlamydia, gonorrhea and primary/secondary syphilis case numbers and rates by residence, age, gender, and race/ethnicity for 2004. Chlamydia and gonorrhea case numbers and rates by county for 2004 are shown in Table 3.

Between 2003 and 2004 in Minnesota, the chlamydia rate increased by 8%. During the same time period, the rates for gonorrhea and primary/secondary syphilis decreased by 8% and 43%, respectively. While the number of cases of early syphilis (which includes primary, secondary, and early latent stages) decreased between 2003 and 2004, from 92 to 48, gay/bisexual males continued to account for the majority (81%) of cases among males. Additionally, thirty-two percent of the MSM diagnosed with early syphilis were co-infected with HIV. Similar trends have been observed in other parts of the country. MDH continues to collaborate with local physicians, clinics, and community-based organizations to increase community awareness and syphilis testing among MSM.

Between 1996 and 2004 the chlamydia rate in Minnesota has doubled. The increase has been seen across gender, geographical areas, age and race groups. In contrast, the gonorrhea rate has stayed constant for the same time period. However, while the overall rate of gonorrhea has stayed constant, over the past three years the prevalence of quinolone-resistant gonorrhea (QNRG) has increased five fold from 1.5% in 2002 to 8.4% in 2004. Of concern is the high prevalence among gay/bisexual males, which has increased from zero in 2002, to 8.9% in 2003, and 26.9% in 2004. Additionally four of the twenty-two cases among gay/bisexual males were also infected with HIV. CDC no longer recommends the use of fluoroquinolones to treat gonorrhea in gay/bisexual males or for persons that may have acquired the infection in Hawaii, California and other areas with high QNRG prevalence (see: http://www.cdc.gov/mmwr/preview/mmwehtml/mm5316a1.htm).

STD rates continue to be highest in the seven-county metropolitan area, particularly in the cities of Minneapolis and St. Paul. Adolescents and young adults aged 15-24 years have the highest rates of chlamydia and gonorrhea, whereas the highest rates of primary/secondary syphilis are among persons in older age groups. Gonorrhea rates are comparable for men and women. However, due to more frequent screening among women, the reported rate of chlamydial infection among women is more than twice the rate among men. Rates of STDs remain elevated among communities of color.

<u>Sources and Limitations of Data:</u> In Minnesota, laboratory-confirmed infections of chlamydia, gonorrhea, syphilis, and chancroid are monitored by the MDH through a combined physician and laboratory-based surveillance system. State law (Minnesota Rule 4605.7040) requires both physicians and laboratories to report all cases of these four bacterial STDs directly to the MDH. Other common sexually transmitted conditions caused by viral pathogens, such as herpes simplex virus (HSV) and human papillomavirus (HPV), are not reported to the MDH. Factors that impact the completeness and accuracy of the available data on STDs include: level of screening, individual test-seeking behavior, accuracy of diagnostic tests, and compliance with case reporting. Thus, any changes in STD rates may be due to one of these factors or due to actual changes in STD occurrence.

Population counts used to calculate rates by residence, by gender, and by race/ethnicity were obtained from the U.S. Census Bureau. Rates were calculated using each year's case data and population counts from the 2000 Census. The 2000 Census data on race include the number of persons by race alone or in combination with one or more races. Thus, persons who identified themselves by more than one race are "overcounted" in the denominators.

Table 1. Number of Cases and Rates (per 100,000 persons) of Chlamydia, Gonorrhea, Syphilis, and Chancroid Minnesota, 2000 - 2004											
	2000		2001		2002		2003		2004		
Disease	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	
Chlamydia	8,147	166	8,369	170	10,118	206	10,807	220	11,601	236	
Gonorrhea	3,189	65	2,708	55	3,050	62	3,237	66	2,957	60	
All Stages of Syphilis	80	1.6	135	2.7	149	3.0	198	4.0	145	2.9	
Primary/Secondary Syphilis	16	0.3	33	0.7	59	1.2	48	1.0	27	0.5	
Early Latent Syphilis	18	0.4	16	0.3	23	0.5	45	0.9	21	0.4	
Late Latent Syphilis*	44	0.9	81	1.6	65	1.3	105	2.1	95	1.9	
Other Syphilis	0	0.0	3	0.1	1	0.0	0	0.00	1	0.02	
Congenital Syphilis**	2	3.0	2	3.0	1	1.5	0	0.0	1	1.4	
Chancroid	0	0.00	0	0.0	0	0.0	0	0.0	0	0.0	

Data exclude federal and private prisoners.

* Late latent syphilis includes neurosyphilis.

** Congenital syphilis rate is expressed per 100,000 live births.

	Number of Cases imary/Secondary	Syphilis by Res				d	
Group	Chlamy	dia	Gonorr	hea	Primary/Secondary Syphilis		
	Cases	Rate	Cases	Rate	Cases	Rate	
Residence*	• • •	· · · · · ·	•		L. L		
Minneapolis	2,655	694	1,055	276	16	4.2	
St. Paul	1,835	639	545	190	3	1.0	
Suburban**	3,315	168	794	40	7	0.4	
Greater Minnesota	3,389	149	467	21	1	0.0	
Age					-		
<10 yrs	3	0	1	0	0	0.0	
10-14 yrs	119	32	34	9	0	0.0	
15-19 yrs	3,623	968	740	198	1	0.3	
20-24 yrs	4,426	1372	929	288	3	0.9	
25-29 yrs	1,910	597	503	157	4	1.3	
30-34 yrs	840	238	293	83	3	0.8	
35-44 yrs	539	65	334	41	9	1.1	
45+ yrs	141	8	123	7	7	0.4	
Gender							
Male	3,081	126	1,244	51	24	1.0	
Female	8,520	343	1,712	69	3	0.1	
Transgender			1				
Race^/Ethnicity							
White	5,048	113	966	22	19	0.4	
Black	2,956	1456	1,202	592	7	3.4	
American Indian	396	488	72	89	1	1.2	
Asian/PI	438	260	61	36	0	0.0	
Other	465	522	86	97	0	0.0	
Unknown^^	2,298		570		0		
Hispanic^^^	852	594	139	97	0	0.0	
TOTAL	11,601	236	2,957	60	27	0.5	

Data exclude federal and private prisoners. * Residence information missing for 407 Chlamydia cases, 96 Gonorrhea cases and zero Primary & Secondary Syphilis cases ** Suburban is defined as the seven-county metropolitan area (Anoka, Carver, Dakota, Hennepin, Ramsey, Scott, and Washington counties), excluding the cities of Minneapolis and St. Paul.

[^] Case counts include persons by race alone. Population counts used to calculate rates include race alone or in combination.

^^ No comparable population data available to calculate rates.

^^^ Persons of Hispanic origin may be of any race.

	Chlara	u dia			dence Minnesota, 2004 County		Chlamydia Gonorrha			
County	Chlam Cases	Rate	Cases	rrhea Rate		Cases	Rate	Cases	orrha Rate	
Aitkin	8	52	1	-	Marshall	3	Trate	0	Rate	
Anoka	529	177	109	37	Martin	26	119	2		
Becker	24	80	109	-	Meeker	15	66	3		
Beltrami	158	398	17	43	Mille Lacs	35	157	7	31	
Benton	53	155	4		Morrison	35	110	5	16	
Big Stone	3	155	4	-	Mower	59	153	2	10	
Blue Earth	201	359	41	73	Murray	5	55	0		
Brown	16	59	2	-	Nicollet	18	60	0		
Carlton	53	167	2	- 25	Nobles	34	163	1		
Carver	44	63	8	11	Norman	34	105	0		
	39	144	3		Olmsted	299	- 241	-		
Cass Chippewa	39 14	144	3	-	Offisted Otter Tail	299	241 52	42 5	<u>34</u> 9	
Chisago	56	136	6	- 15		20	52 147	5 1	9	
	67	130	4	-	Pennington Pine	20	147	2		
Clay Clearwater	3	131	4		Pipestone	1	102	0		
	4		1	-	Polk	31	- 99	5	16	
Cook Cottonwood	22	- 181	1	-		2	99	5 0	10	
	79		7		Pope		- 418	615	100	
Crow Wing	622	143 175	134	13 38	Ramsey	2136	418		120	
Dakota	16	90		30	Red Lake Redwood	21	- 125	0		
Dodge	10	90 52	0	-		21	125	2		
Douglas			0	-	Renville	77		0	18	
Faribault	18	111	0		Rice Rock		136	10	18	
Fillmore	20 64	95	1	-		3	- 92	0		
Freeborn		196	2	-	Roseau			•		
Goodhue	73	165	15	34	St. Louis	457	228	101	50	
Grant	1	-	0	-	Scott	100	112	20	22	
Hennepin	4084	366	1450	130	Sherburne	67	104	11	17	
Houston	26	132	10	51	Sibley	15	98	1		
Hubbard	8	44	1	-	Stearns	333	250	37	28	
Isanti	30	96	5	16	Steele	58	172	14	42	
Itasca	67	152	8	18	Stevens	5	50	1		
Jackson	8	71	0	-	Swift	10	84	1		
Kanabec	13	87	1	-	Todd	9	37	0		
Kandiyohi	77	187	6	15	Traverse	1	-	0		
Kittson	5	95	0	-	Wabasha	37	171	4		
Koochiching	17	118	1	-	Wadena	14	102	1		
Lac qui Parle	1	-	0	-	Waseca	38	195	8	41	
Lake	7	63	1	-	Washington	290	144	58	29	
Lake of the Woods	2	-	2	-	Watonwan	8	67	2		
Le Sueur	19	75	1	-	Wilkin	1	-	0		
Lincoln	1	-	0	-	Winona	78	156	18	36	
Lyon	63	248	11	43	Wright	76	84	13	14	
McLeod	21	60	4	-	Yellow Medicine	12	108	0		
Mahnomen	10	193	0	-						

Data exclude federal and private prisoners. * Rates not computed for counties with fewer than 5 cases.