

Quarterly Report on Sexually Transmitted Infections

**Quarter 4 2000
(including annual summary)**



Report by

The National Disease Surveillance Centre

NDSC would like to thank all those who provided data for this report, particularly the STI Clinics and the Departments of Public Health

Introduction

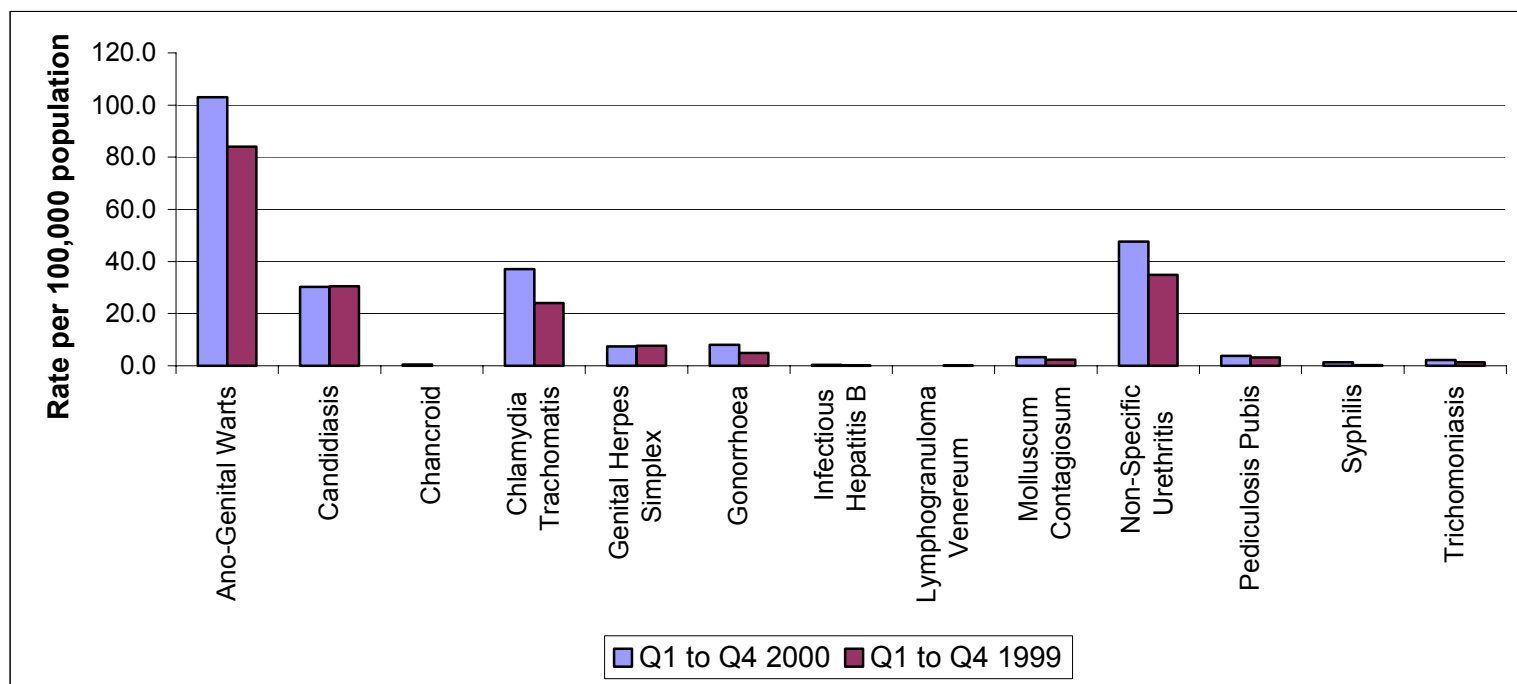
Fourteen sexually transmitted infections (STIs) are currently notifiable in Ireland: ano-genital warts, candidiasis, chancroid, chlamydia trachomatis, genital herpes simplex, gonorrhoea, granuloma inguinale, infectious hepatitis B, lymphogranuloma venereum, molluscum contagiosum, non-specific urethritis, pediculosis pubis, syphilis and trichomoniasis. Aggregate data is collected quarterly from STI clinics including age group, sex and diagnosis. The number of STIs notified by quarter, health board, age group and sex for quarter 4 (Q4) 2000 are presented in this report. Rates per 100,000 population are based on the 1996 population census (appendix A). The annual notifications for 2000 are also presented in this report.

Notified STIs for Quarter 4 2000

In Q4 2000, 2409 cases of STIs were notified in Ireland, compared to 1792 during the same quarter in 1999 (table 1), representing a 34.4% increase in STI notifications. No cases of granuloma inguinale or lymphogranuloma venereum were notified during Q4 2000. Notified cases of ano-genital warts, chancroid, chlamydia trachomatis, gonorrhoea, infectious hepatitis B, molluscum contagiosum, non-specific urethritis, pediculosis pubis, syphilis and trichomoniasis all increased during 2000 compared to 1999. The cumulative rate per 100,000 population for all notifiable STIs increased from 192.9 per 100,000 in 1999 to 244.6 per 100,000 in 2000 (figure 1).

Table 1: Notified sexually transmitted infections for Q4 2000 and Q4 1999 and cumulative notified cases for 2000 and 1999

Sexually Transmitted Infection	Q4 2000	Q4 1999	Increase/Decrease	% Increase/Decrease	2000	1999	Increase/Decrease	% Increase/Decrease
Ano-Genital Warts	998	711	287	40.4	3735	3049	686	22.5
Candidiasis	244	300	-56	-18.7	1095	1105	-10	-0.9
Chancroid	8	1	7	700.0	16	1	15	1500.0
Chlamydia Trachomatis	378	253	125	49.4	1343	869	474	54.5
Genital Herpes Simplex	70	90	-20	-22.2	269	275	-6	-2.2
Gonorrhoea	90	40	50	125.0	290	175	115	65.7
Granuloma Inguinale	0	0	0	0.0	0	1	-1	-100.0
Infectious Hepatitis B ¹	10	0	10		15	2	13	650.0
Lymphogranuloma Venereum	0	0	0	0.0	0	2	-2	-100.0
Molluscum Contagiosum	27	21	6	28.6	118	83	35	42.2
Non-Specific Urethritis	512	329	183	55.6	1726	1265	461	36.4
Pediculosis Pubis	38	32	6	18.8	138	113	25	22.1
Syphilis	16	2	14	700.0	46	6	40	666.7
Trichomoniasis	18	13	5	38.5	78	47	31	66.0
Total	2409	1792	617	34.4	8869	6993	1876	26.8



¹Cases of infectious hepatitis B that are sexually transmitted may also be reported through the weekly infectious disease report by NDSC

Figure 1: Notified sexually transmitted infections per 100,000 population for Q1 to Q4 2000 and Q1 to Q4 1999.

Notified STIs by Health Board for Quarter 4 2000

Notified cases of STIs by health board are presented in table 2. It is important to note that STI surveillance is mainly clinic based. At the time these notifications were made there were no STI clinics in the MHB and NEHB. For Q4 2000, 55.3% of all STI notifications were in the ERHA, 0% in the MHB, 13.5% in the MWHB, 0% in the NEHB, 4.9% in the NWHB, 7.8% in the SEHB, 10.0% in the SHB and 8.7% in the WHB.

Notified STIs by Age for Quarter 4 2000

Notified cases of STIs by age group (years) are presented in table 3. Twenty-seven percent (650) of notifiable STIs in Q4 2000 were in the 20 to 29 year age group. The data represented in table 3 should be interpreted with caution, as the age group data for 55.4% of the cases notified during Q4 2000 were unknown.

Table 2: Notified sexually transmitted infections by health board
Q4 2000

Sexually Transmitted Infection	Health Board								
	ERHA	MHB	MWHB	NEHB	NWHB	SEHB	SHB	WHB	Total
Ano-Genital Warts	528	0	114	0	47	77	137	95	998
Candidiasis	105	0	30	0	16	11	29	53	244
Chancroid	8	0	0	0	0	0	0	0	8
Chlamydia Trachomatis	231	0	33	0	13	40	25	36	378
Genital Herpes Simplex	53	0	1	0	2	2	6	6	70
Gonorrhoea	62	0	11	0	0	6	10	1	90
Granuloma Inguinale	0	0	0	0	0	0	0	0	0
Infectious Hepatitis B ¹	8	0	0	0	1	0	1	0	10
Lymphogranuloma Venereum	0	0	0	0	0	0	0	0	0
Molluscum Contagiosum	15	0	3	0	1	6	1	1	27
Non-Specific Urethritis	273	0	129	0	37	37	27	9	512
Pediculosis Pubis	19	0	3	0	0	7	1	8	38
Syphilis	14	0	0	0	0	0	2	0	16
Trichomoniasis	15	0	0	0	0	1	2	0	18
Total	1331	0	324	0	117	187	241	209	2409

Table 3: Notified sexually transmitted infections by age
Q4 2000

Sexually Transmitted Infection	Age (Years)					
	0-19	20-29	30-39	40+	Unknown	Total
Ano-Genital Warts	83	306	65	15	529	998
Candidiasis	24	68	28	17	107	244
Chancroid	0	0	0	0	8	8
Chlamydia Trachomatis	49	83	10	5	231	378
Genital Herpes Simplex	1	14	1	1	53	70
Gonorrhoea	6	18	1	3	62	90
Granuloma Inguinale	0	0	0	0	0	0
Infectious Hepatitis B ¹	2	0	0	0	8	10
Lymphogranuloma Venereum	0	0	0	0	0	0
Molluscum Contagiosum	4	5	3	0	15	27
Non-Specific Urethritis	37	142	43	17	273	512
Pediculosis Pubis	6	12	0	1	19	38
Syphilis	0	0	1	1	14	16
Trichomoniasis	1	2	0	0	15	18
Total	213	650	152	60	1334	2409

Notified STIs by Sex for Quarter 4 2000

During Q4 2000, 44.8% (1078) of all cases of notified STIs were amongst females and 55.2% (1329) were amongst males (table 4). Figure 2 represents the percentage of male and female cases for each of the notifiable STIs, during Q4 2000. The majority of notified cases of ano-genital warts, chlamydia trachomatis, gonorrhoea, infectious hepatitis B, molluscum contagiosum, non-specific urethritis, pediculosis pubis and syphilis were amongst males. The majority of cases of candidiasis, chancroid, genital herpes simplex and trichomoniasis were amongst females.

Table 4: Notified sexually transmitted infections by sex, Q4 2000

Sexually Transmitted Infection	Sex			
	Male	Female	Unknown	Total
Ano-Genital Warts	526	472	0	998
Candidiasis	42	202	0	244
Chancroid	1	7	0	8
Chlamydia Trachomatis	200	176	2	378
Genital Herpes Simplex	27	43	0	70
Gonorrhoea	76	14	0	90
Granuloma Inguinale	0	0	0	0
Infectious Hepatitis B ¹	8	2	0	10
Lymphogranuloma Venereum	0	0	0	0
Molluscum Contagiosum	16	11	0	27
Non-Specific Urethritis	392	120	0	512
Pediculosis Pubis	22	16	0	38
Syphilis	14	2	0	16
Trichomoniasis	5	13	0	18
Total	1329	1078	2	2409

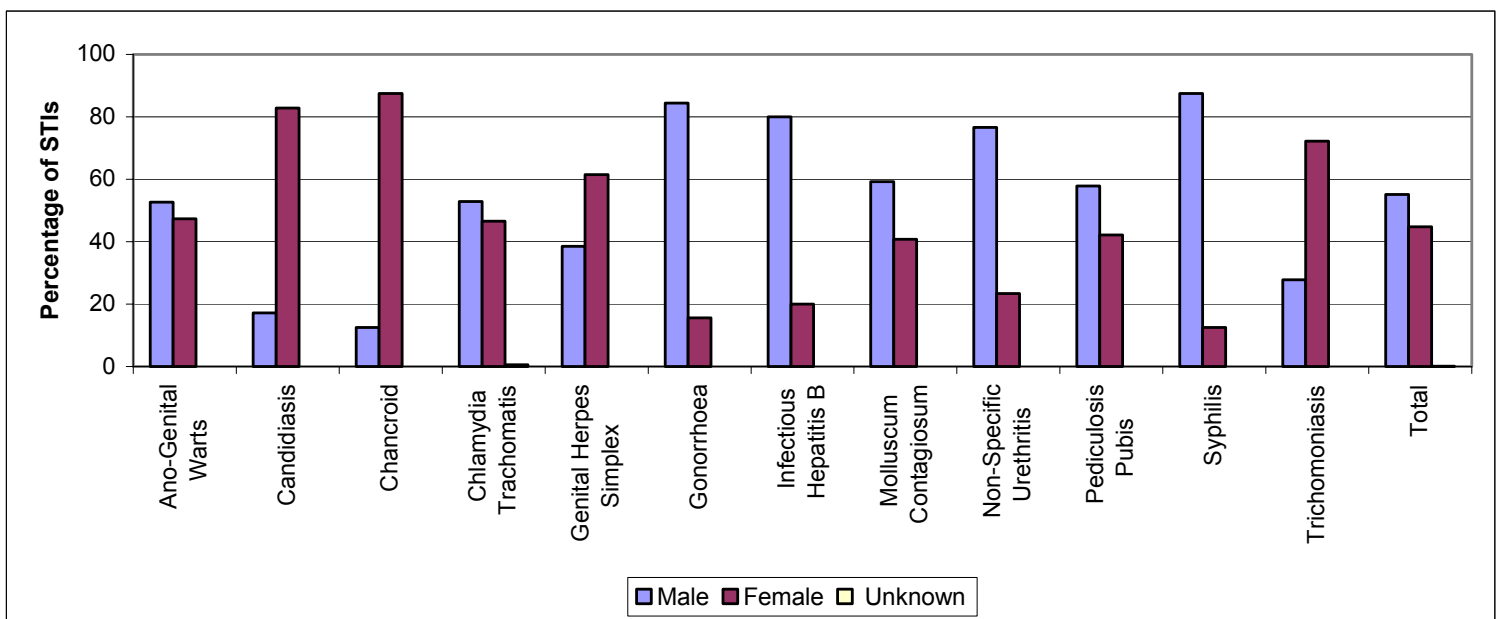


Figure 2: Percentage of notified STIs by sex, Q4 2000

Annual Trends

During 2000, 8869 cases of STIs were notified compared to 6993 in 1999, a 26.8% increase (appendix B). Notified STIs have increased by 85.5% between 1995 and 2000 and 298% between 1989 and 2000 (figure 3). A total of 59300 STIs have been notified since 1989, 15% of these were notified in 2000.

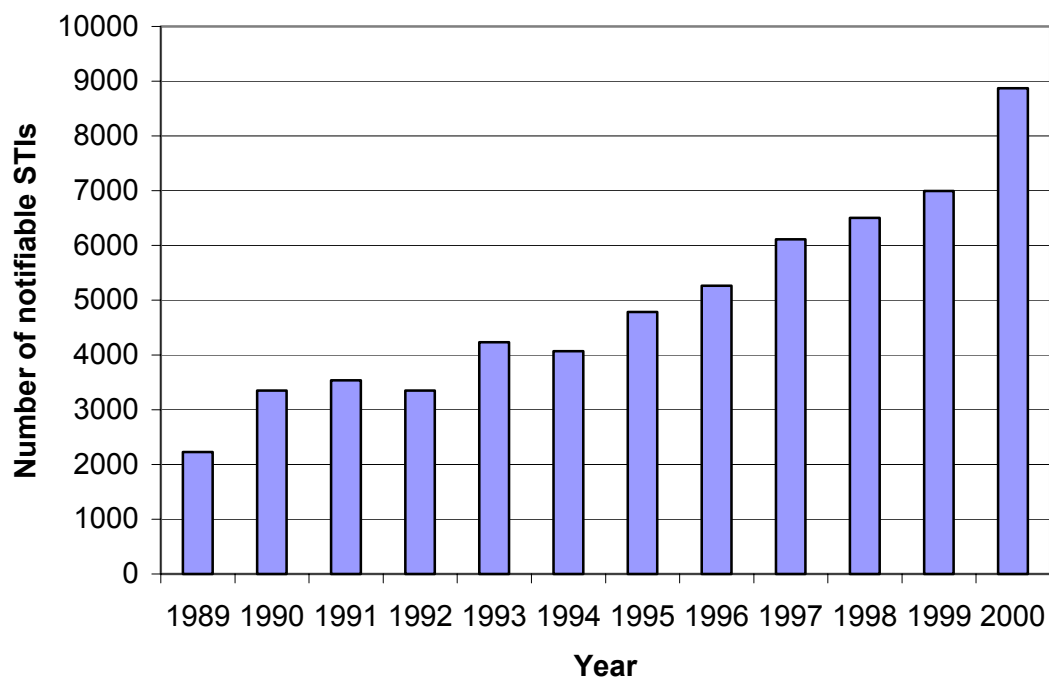


Figure 3: Notified sexually transmitted infections from 1989 to 2000

Aggregate data for notified STIs by health board, age group and sex for 2000 is presented in appendix B. During 2000, 55.3% of all notified STIs were in the ERHA, 0.02% in the MHB, 12.9% in the MWHB, 0.02% in the NEHB, 4.6% in the NWHB, 7.7% in the SEHB, 10.2% in the SHB and 9.3% in the WHB. Twenty-seven percent (2439) of all notifiable STIs were in the 20 - 29 year age group during 2000. The data represented in table 12 should be interpreted with caution, as the age group data for 55.9% of all notified STIs in 2000 was unknown. Between Q1 and Q4 2000, 4549 (51.3%) of all notified STI cases were amongst males and 4317 (48.7%) were amongst females (figure 4). The majority of notified cases of candidiasis, chancroid, chlamydia trachomatis, genital herpes simplex and trichomoniasis in 2000 were amongst females. The majority of cases of gonorrhoea, infectious hepatitis B, molluscum contagiosum, non-specific urethritis, pediculosis pubis and syphilis in 2000 were amongst males (appendix B).

Appendix A

Table 5: Notified sexually transmitted infections per 100,000 population for Q4 2000 and Q4 1999 and cumulative rates for 2000 and 1999

Sexually Transmitted Infection	Q4 2000	Q4 1999	Increase/ Decrease	2000	1999	Increase/ Decrease
Ano-Genital Warts	27.5	19.6	7.9	103.0	84.1	18.9
Candidiasis	6.7	8.3	-1.6	30.2	30.5	-0.3
Chancroid	0.2	0.0	0.2	0.4	0.0	0.4
Chlamydia Trachomatis	10.4	7.0	3.4	37.0	24.0	13.0
Genital Herpes Simplex	1.9	2.5	-0.6	7.4	7.6	-0.2
Gonorrhoea	2.5	1.1	1.4	8.0	4.8	3.2
Granuloma Inguinale	0.0	0.0	0.0	0.0	0.0	0.0
Infectious Hepatitis B ¹	0.3	0.0	0.3	0.4	0.1	0.3
Lymphogranuloma Venereum	0.0	0.0	0.0	0.0	0.1	-0.1
Molluscum Contagiosum	0.7	0.6	0.1	3.3	2.3	1.0
Non-Specific Urethritis	14.1	9.1	5.0	47.6	34.9	12.7
Pediculosis Pubis	1.0	0.9	0.1	3.8	3.1	0.7
Syphilis	0.4	0.1	0.3	1.3	0.2	1.1
Trichomoniasis	0.5	0.4	0.1	2.2	1.3	0.9
Total	66.4	49.4	17.0	244.6	192.9	51.7

Table 6: Notified sexually transmitted infections per 100,000 population by age group, Q4 2000

Sexually Transmitted Infection	Age (Years)					
	0-19	20-29	30-39	40+	Unknown	Total
Ano-Genital Warts	6.9	55.4	12.6	1.1	14.6	27.5
Candidiasis	2.0	12.3	5.4	1.3	3.0	6.7
Chancroid	0.0	0.0	0.0	0.0	0.2	0.2
Chlamydia Trachomatis	4.1	15.0	1.9	0.4	6.4	10.4
Genital Herpes Simplex	0.1	2.5	0.2	0.1	1.5	1.9
Gonorrhoea	0.5	3.3	0.2	0.2	1.7	2.5
Granuloma Inguinale	0.0	0.0	0.0	0.0	0.0	0.0
Infectious Hepatitis B ¹	0.2	0.0	0.0	0.0	0.2	0.3
Lymphogranuloma Venereum	0.0	0.0	0.0	0.0	0.0	0.0
Molluscum Contagiosum	0.3	0.9	0.6	0.0	0.4	0.7
Non-Specific Urethritis	3.1	25.7	8.3	1.3	7.5	14.1
Pediculosis Pubis	0.5	2.2	0.0	0.1	0.5	1.0
Syphilis	0.0	0.0	0.2	0.1	0.4	0.4
Trichomoniasis	0.1	2.2	0.0	0.0	0.4	0.5
Total	17.8	117.7	29.4	4.4	36.8	66.4

Table 7: Notified sexually transmitted infections per 100,000 population by sex
Q4 2000

Sexually Transmitted Infection	Sex			
	Male	Female	Unknown	Total
Ano-Genital Warts	29.2	25.9	0.0	27.5
Candidiasis	2.3	11.1	0.0	6.7
Chancroid	0.1	0.4	0.0	0.2
Chlamydia Trachomatis	11.1	9.6	0.1	10.4
Genital Herpes Simplex	1.5	2.4	0.0	1.9
Gonorrhoea	4.2	0.8	0.0	2.5
Granuloma Inguinale	0.0	0.0	0.0	0.0
Infectious Hepatitis B ¹	0.4	0.1	0.0	0.3
Lymphogranuloma Venereum	0.0	0.0	0.0	0.0
Molluscum Contagiosum	0.9	0.6	0.0	0.7
Non-Specific Urethritis	21.8	6.6	0.0	14.1
Pediculosis Pubis	1.2	0.9	0.0	1.0
Syphilis	0.8	0.1	0.0	0.4
Trichomoniasis	0.3	0.7	0.0	0.5
Total	73.8	59.0	0.1	66.4

¹Cases of infectious hepatitis B that are sexually transmitted may also be reported through the weekly infectious disease report by NDSC

Appendix B

Table 8: Notified sexually transmitted infections from 1989 to 2000

Sexually Transmitted Infection	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
Ano-Genital Warts	505	917	1089	1066	1432	1532	1972	2286	2514	2886	3049	3735
Candidiasis	688	1056	1257	1157	1400	1360	1271	1321	1521	1277	1105	1095
Chancroid	2	0	0	2	0	2	3	1	1	0	1	16
Chlamydia Trachomatis	174	215	164	192	315	133	245	364	462	646	869	1343
Genital Herpes Simplex	78	123	109	125	124	173	198	181	211	243	275	269
Gonorrhoea	27	90	73	51	24	98	91	83	98	125	175	290
Granuloma Inguinale	0	0	0	0	6	0	0	1	1	0	1	0
Infectious Hepatitis B ¹	0	0	0	0	0	0	4	2	0	0	2	15
Lymphogranuloma Venereum	0	0	0	0	0	0	0	0	5	1	2	0
Molluscum Contagiosum	31	39	43	44	34	56	59	34	74	84	83	118
Non-Specific Urethritis	600	738	549	585	756	610	781	823	1034	1083	1265	1726
Pediculosis Pubis	60	70	72	70	77	69	86	79	81	105	113	138
Syphilis	12	19	20	20	8	11	11	17	16	15	6	46
Trichomoniasis	51	86	163	41	57	29	60	71	94	38	47	78
Total	2228	3353	3539	3353	4233	4073	4781	5263	6112	6503	6993	8869

Table 9: Notified STIs by quarter for 1999 and 2000

Sexually Transmitted Infection	Q1 1999	Q2 1999	Q3 1999	Q4 1999	Q1 2000	Q2 2000	Q3 2000	Q4 2000
Ano-Genital Warts	762	905	671	711	953	952	832	998
Candidiasis	269	263	273	300	317	262	272	244
Chancroid	0	0	0	1	0	3	5	8
Chlamydia Trachomatis	169	295	152	253	309	346	310	378
Genital Herpes Simplex	94	53	38	90	75	50	74	70
Gonorrhoea	21	55	59	40	54	50	96	90
Granuloma Inguinale	0	0	1	0	0	0	0	0
Infectious Hepatitis B ¹	2	0	0	0	0	0	5	10
Lymphogranuloma Venereum	0	0	2	0	0	0	0	0
Molluscum Contagiosum	23	29	10	21	33	37	21	27
Non-Specific Urethritis	243	389	304	329	425	385	404	512
Pediculosis Pubis	35	25	21	32	37	38	25	38
Syphilis	2	1	1	2	2	7	21	16
Trichomoniasis	10	15	9	13	18	15	27	18
Total	1630	2030	1541	1792	2223	2145	2092	2409

Table 10: Notified STIs per 100,000 population by quarter for 1999 and 2000

Sexually Transmitted Infection	Q1 1999	Q2 1999	Q3 1999	Q4 1999	Q1 2000	Q2 2000	Q3 2000	Q4 2000
Ano-Genital Warts	21.0	25.0	18.5	19.6	26.3	26.3	22.9	27.5
Candidiasis	7.4	7.3	7.5	8.3	8.7	7.2	7.5	6.7
Chancroid	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Chlamydia Trachomatis	4.7	8.1	4.2	7.0	8.5	9.5	8.5	10.4
Genital Herpes Simplex	2.6	1.5	1.0	2.5	2.1	1.4	2.0	1.9
Gonorrhoea	0.6	1.5	1.6	1.1	1.5	1.4	2.6	2.5
Granuloma Inguinale	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Infectious Hepatitis B ¹	0.1	0.0	0.0	0.0	0.0	0.0	0.1	0.3
Lymphogranuloma Venereum	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0
Molluscum Contagiosum	0.6	0.8	0.3	0.6	0.9	1.0	0.6	0.7
Non-Specific Urethritis	6.7	10.7	8.4	9.1	11.7	10.6	11.1	14.1
Pediculosis Pubis	1.0	0.7	0.6	0.9	1.0	1.0	0.7	1.0
Syphilis	0.1	0.0	0.0	0.1	0.1	0.2	0.6	0.4
Trichomoniasis	0.3	0.4	0.2	0.4	0.5	0.4	0.7	0.5
Total	45.0	56.0	42.5	49.4	61.3	59.2	57.7	66.4

Table 11: Notified sexually transmitted infections by health board, 2000

Sexually Transmitted Infection	ERHA	MHB	MWHB	NEHB	NWHB	SEHB	SHB	WHB	Total
Ano-Genital Warts	1941	0	431	0	203	300	489	371	3735
Candidiasis	544	0	122	0	55	60	79	235	1095
Chancroid	13	0	0	0	3	0	0	0	16
Chlamydia Trachomatis	830	0	122	0	37	146	95	113	1343
Genital Herpes Simplex	176	0	19	1	6	17	31	19	269
Gonorrhoea	186	2	27	0	4	17	35	19	290
Granuloma Inguinale	0	0	0	0	0	0	0	0	0
Infectious Hepatitis B ¹	10	0	3	0	1	0	1	0	15
Lymphogranuloma Venereum	0	0	0	0	0	0	0	0	0
Molluscum Contagiosum	69	0	9	0	3	14	14	9	118
Non-Specific Urethritis	970	0	402	0	82	107	130	35	1726
Pediculosis Pubis	71	0	9	1	6	15	19	17	138
Syphilis	35	0	1	0	0	3	5	2	46
Trichomoniasis	58	0	1	0	7	3	7	2	78
Total	4903	2	1146	2	407	682	905	822	8869

Table 12: Notified sexually transmitted infections by age group, 2000

Sexually Transmitted Infection	0-19	20-29	30-39	40+	Unknown	Total
Ano-Genital Warts	283	1190	223	64	1975	3735
Candidiasis	95	261	108	69	562	1095
Chancroid	0	3	0	0	13	16
Chlamydia Trachomatis	116	327	51	9	840	1343
Genital Herpes Simplex	12	59	14	7	177	269
Gonorrhoea	14	63	12	15	186	290
Granuloma Inguinale	0	0	0	0	0	0
Infectious Hepatitis B ¹	2	2	0	1	10	15
Lymphogranuloma Venereum	0	0	0	0	0	0
Molluscum Contagiosum	9	31	8	1	69	118
Non-Specific Urethritis	88	451	145	55	987	1726
Pediculosis Pubis	16	40	7	2	73	138
Syphilis	1	5	3	2	35	46
Trichomoniasis	5	7	2	6	58	78
Total	641	2439	573	231	4966	8869

Table 13: Notified sexually transmitted infections per 100,000 population by age group, 2000

Sexually Transmitted Infection	0-19	20-29	30-39	40+	Unknown	Total
Ano-Genital Warts	23.6	215.4	40.4	4.7	54.5	103
Candidiasis	7.9	47.2	20.9	5.1	15.5	30.2
Chancroid	0	0.5	0	0	0.4	0.4
Chlamydia Trachomatis	9.7	59.2	9.9	0.7	23.2	37
Genital Herpes Simplex	1	10.7	2.7	0.5	4.9	7.4
Gonorrhoea	1.2	11.4	2.3	1.1	5.1	8
Granuloma Inguinale	0	0	0	0	0	0
Infectious Hepatitis B ¹	0.2	0.4	0	0.1	0.3	0.4
Lymphogranuloma Venereum	0	0	0	0	0	0
Molluscum Contagiosum	0.8	5.6	1.5	0.1	1.9	3.3
Non-Specific Urethritis	7.3	81.6	28.1	4	27.2	47.6
Pediculosis Pubis	1.3	7.2	1.4	0.1	2.0	3.8
Syphilis	0.1	0.9	0.6	0.1	1	1.3
Trichomoniasis	0.4	1.3	0.4	0.4	1.6	2.2
Total	53.5	441.5	110.9	17	137	244.6

Table 14: Notified sexually transmitted infections by sex, 2000

Sexually Transmitted Infection	Male	Female	Unknown	Total
Ano-Genital Warts	1868	1867	0	3735
Candidiasis	158	937	0	1095
Chancroid	6	10	0	16
Chlamydia Trachomatis	662	679	2	1343
Genital Herpes Simplex	89	180	0	269
Gonorrhoea	228	62	0	290
Granuloma Inguinale	0	0	0	0
Infectious Hepatitis B ¹	13	2	0	15
Lymphogranuloma Venereum	0	0	0	0
Molluscum Contagiosum	65	52	1	118
Non-Specific Urethritis	1324	402	0	1726
Pediculosis Pubis	93	45	0	138
Syphilis	29	17	0	46
Trichomoniasis	14	64	0	78
Total	4549	4317	3	8869

Table 15: Notified sexually transmitted infections per 100,000 population by sex, 2000

Sexually Transmitted Infection	Male	Female	Unknown	Total
Ano-Genital Warts	103.8	102.3	0	103
Candidiasis	8.8	51.3	0	30.2
Chancroid	0.3	0.5	0	0.4
Chlamydia Trachomatis	36.8	37.2	0.1	37
Genital Herpes Simplex	4.9	9.9	0	7.4
Gonorrhoea	12.7	3.4	0	8
Granuloma Inguinale	0	0	0	0
Infectious Hepatitis B ¹	0.7	0.1	0	0.4
Lymphogranuloma Venereum	0	0	0	0
Molluscum Contagiosum	3.6	2.8	0	3.3
Non-Specific Urethritis	73.5	22	0	47.6
Pediculosis Pubis	5.2	2.5	0	3.8
Syphilis	1.6	0.9	0	1.3
Trichomoniasis	0.8	3.5	0	2.2
Total	252.7	236.4	0.1	244.6

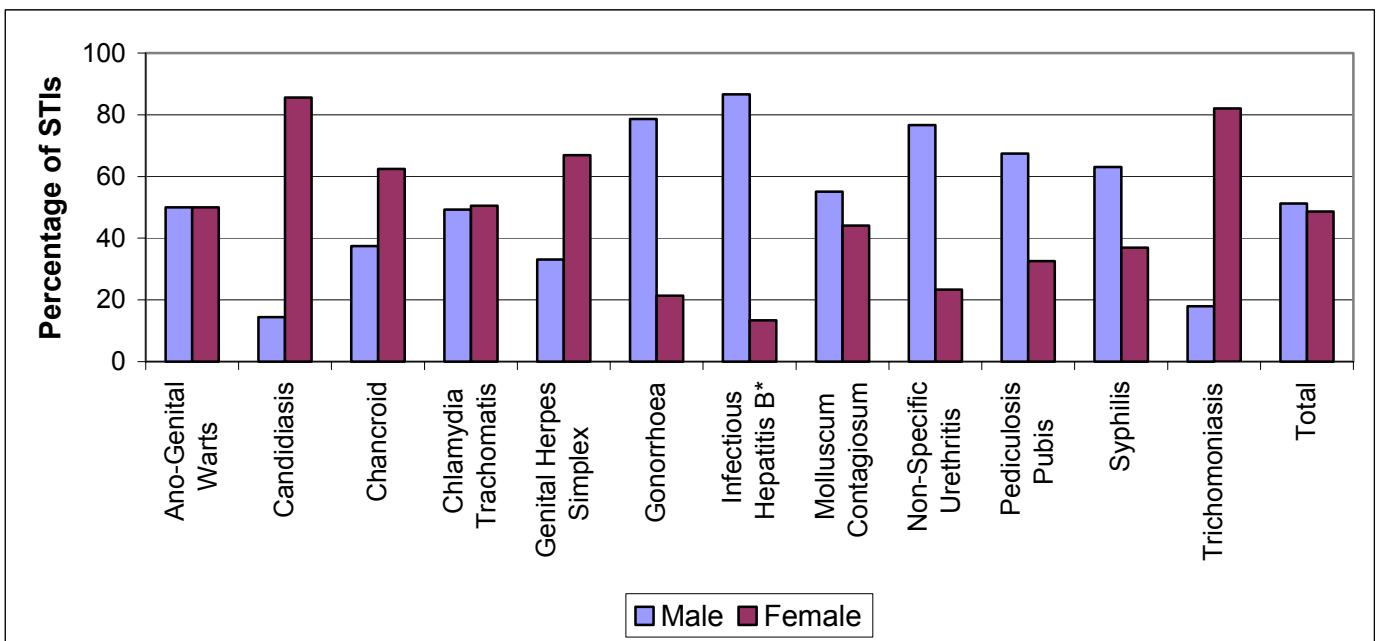


Figure 4: Percentage of notified STIs by sex in 2000

¹Cases of infectious hepatitis B that are sexually transmitted may also be reported through the weekly infectious disease report by NDSC