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Sexually Transmitted Diseases in Canada: 1996 Surveillance Report

(with Preliminary 1997 Data)



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Sexually Transmitted Diseases in Canada: 1996 Surveillance Report

(with Preliminary 1997 Data)

Bureau of HIV/AIDS, STD & TB
Division of STD Prevention and Control
Laboratory Centre for Disease Control
Health Canada

Foreword

The Division of STD Prevention and Control of the Bureau of HIV/AIDS, STD & TB at the Laboratory Centre for Disease Control (LCDC), Health Canada, is pleased to provide you with the 1996 STD Surveillance Report with ancillary preliminary data from 1997. Data reported for 1997 in this report are considered preliminary at the time of publication, and some changes will inevitably be made to these numbers in next year's report. Next year at this time, we plan to produce the final 1997 numbers as well as the preliminary 1998 numbers. This integrated format is designed to get data, even preliminary data, out to the end users in a more timely fashion. In keeping with our end-user approach, we are providing summary yearly STD data for the nationally notifiable sexually transmitted diseases in the Appendices of this report so that researchers have these data for their own studies.

Included in the graphics and text are references to the National STD Goals. STD-specific goal statements were developed at the Federal/Provincial/Territorial STD Meeting in November 1996. This goal-setting process is ongoing; there are plans to engage more partners and stakeholders in adopting these national goals for STD control in Canada.

HIV/AIDS surveillance is conducted by the Division of HIV/AIDS Surveillance, of our Bureau, and thus HIV/AIDS data are not included in this report. Data are available from that Division as well as our website at <http://www.hc-sc.gc.ca/hpb/lcdc/bah>.

The production of this report is only possible with the participation of reporting physicians, provincial and territorial directors of STD, and the Disease Surveillance Division, Bureau of Infectious Diseases, LCDC, Health Canada. Population estimates were obtained from Statistics Canada. The data on antibiotic resistance were provided by the Bureau of Microbiology, LCDC. The National Laboratory for Viral Oncology, LCDC, provided the data on human papillomavirus (HPV), and herpes data were obtained from the National Laboratory for Viral & Zoonotic Diseases.

We greatly acknowledge the above for their contributions to this report. As well, we wish to acknowledge the Document Dissemination Division of LCDC for assisting in the editing and formatting of this report and for posting it on the Internet.

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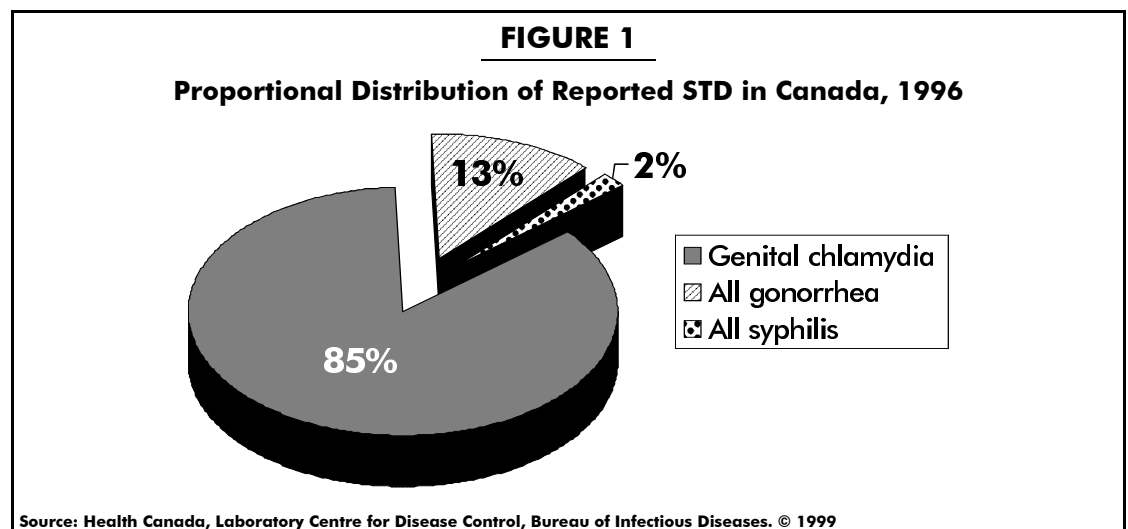
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Introduction

The prevention and control of sexually transmitted diseases (STD) is an important public health issue. Surveillance of STD in Canada assists researchers, physicians, and policy-makers in making decisions on how best to control STD and their sequelae. The surveillance of STD in Canada in recent years has become more important than ever with the advent of compounding research on the relationship between STD and HIV. Recent studies have indicated that treating people for an STD can significantly reduce the HIV incidence in a population⁽¹⁾. Additionally, contracting an STD can compromise future fertility, invoking large medical, financial and social costs.

Four STD are currently notifiable to the federal government of Canada. These are genital chlamydia, gonorrhea, syphilis and chancroid. The rates of chancroid are not given in this report because the number of cases is so low: only three cases in Canada in 1996 and no reported cases to date in 1997. In fact, in a recent ranking of current and proposed nationally notifiable diseases at an ACE (Advisory Committee on Epidemiology) meeting, it was recommended that chancroid be removed from the nationally notifiable disease list.

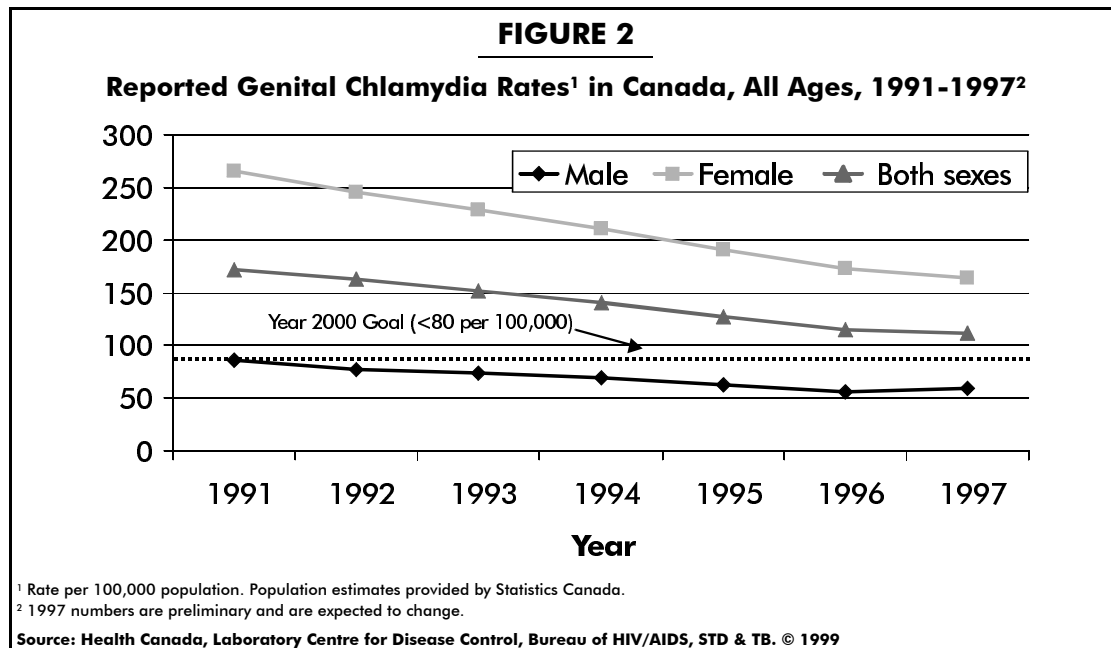
The relative distribution of the nationally notifiable STD in 1996 is shown in Figure 1. The number of cases presented for each STD reflects only those cases reported to the Laboratory Centre for Disease Control.

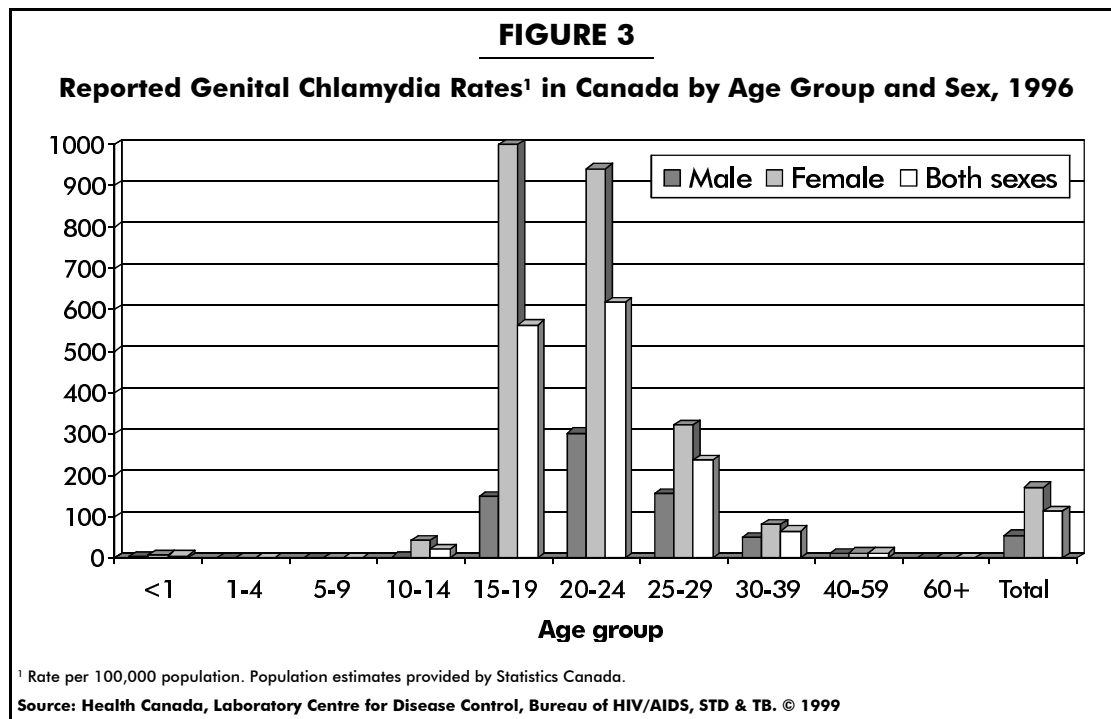


Chlamydia

(*Chlamydia trachomatis*)

While genital chlamydia is still the most commonly reported bacterial STD in Canada, there has been a steady decline in the number of reported cases since it became nationally notifiable in 1990, from 48,284 cases (171.7 per 100,000) in 1991 to 34,399 cases (114.8 per 100,000) in 1996 (Figure 2). However, the incidence of chlamydia infection still remains high, especially among young women (998.6 per 100,000 and 941.2 per 100,000 for 15-19 year old and 20-24 year old women respectively in 1996) (Figure 3). The male to female case ratio since 1991 has remained remarkably stable at approximately 1:3. Additionally, estimates of asymptomatic cases of chlamydia in women have been as high as 85%⁽²⁻⁴⁾, thus the actual incidence of the disease may be much greater than reported. The higher rate of infection among females is deemed to be a reflection of a combination of screening of asymptomatic females and low rates of testing in men. Males have been deterred from testing because of the discomfort associated with obtaining the urethral specimen for culture. Recently introduced non-invasive (urine) tests may increase the number of tests done in both females and males, especially the latter. This, in turn, may increase the reported incidence of chlamydia among both sexes.





The sequelae of untreated (which includes undetected or asymptomatic) chlamydial infections can be severe: it has been estimated that in 20-25% of infected, untreated women the condition will progress to pelvic inflammatory disease (PID)⁽⁵⁾, and subsequently these women will be exposed to the complications of ectopic pregnancies (see page 14) and/or tubal infertility.

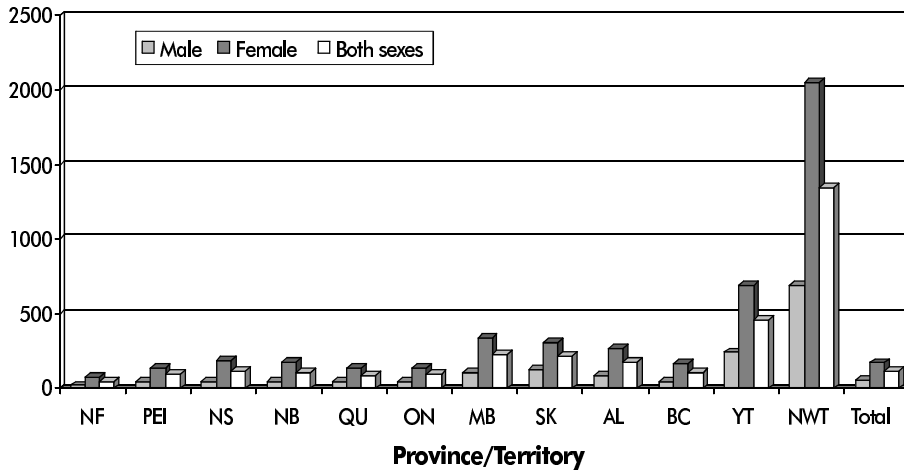
The regional distribution of chlamydia in Canada has remained relatively constant since the disease became nationally notifiable. The north – the Yukon Territory and the Northwest Territories – has traditionally had the highest incidence of chlamydia with a range of 3 to 14 times the national rate respectively, and Newfoundland has had the lowest (48.8 per 100,000 in 1996) incidence rate (Figure 4, Appendices 1.1-1.2).

Of great concern is the incidence rate of STD among children as an indicator of sexual abuse. Figure 5 shows the incidence rate of chlamydia among children <10 years old from 1991 to 1997, by sex of child.

The national goal for chlamydia is 80 cases per 100,000 for the year 2000. The 1996 incidence rate of 114.8 per 100,000 indicates that this goal has been partially achieved to date. For women in the 15 to 24 year age group, the goal is 500 per 100,000 (1996 rate is 968.9 per 100,000 among women in this age group)⁽⁶⁾. These goals are ambitious but emphasize the need to further reduce STD levels in Canada.

FIGURE 4

**Reported Genital Chlamydia Rates¹
in Canada by Province/Territory and Sex, 1996**

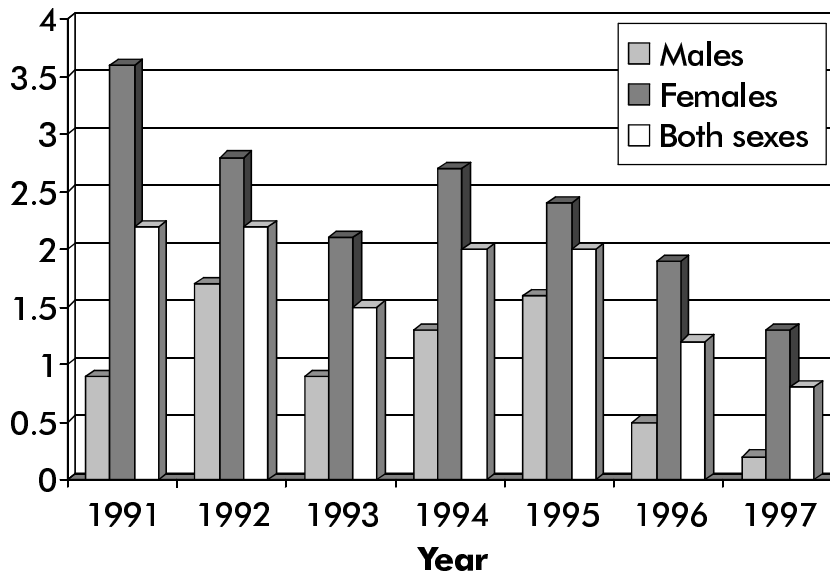


¹ Rate per 100,000 population. Population estimates provided by Statistics Canada.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

FIGURE 5

**Reported Genital Chlamydia Rates¹ Among Children <10 years,
Canada, 1991-1997²**



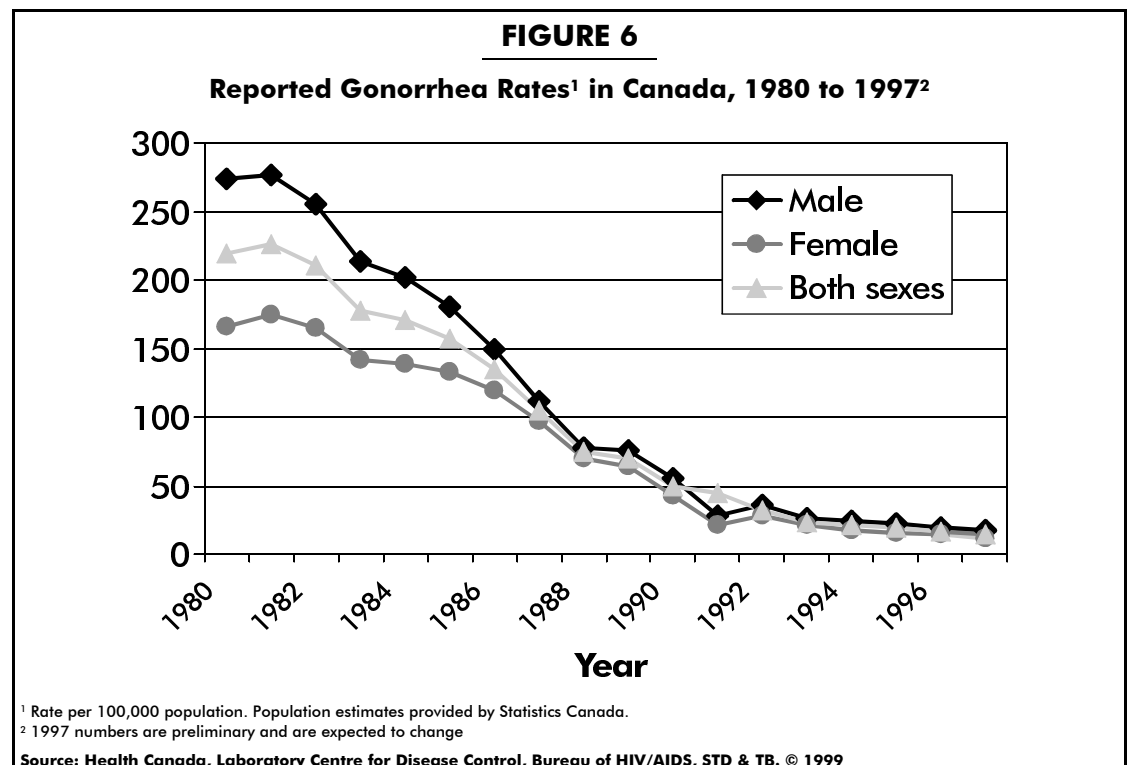
¹ Rate per 100,000 population. Population estimates provided by Statistics Canada.

² 1997 numbers are preliminary and are expected to change.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Gonorrhoea

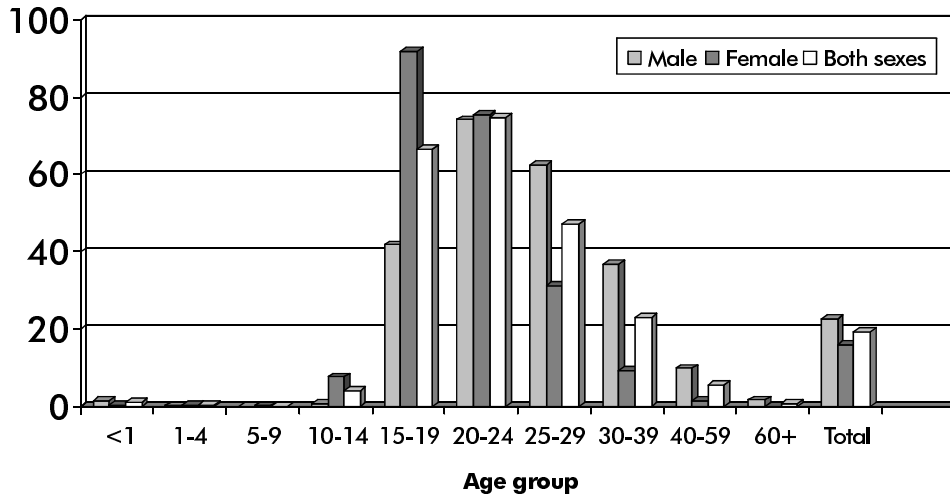
The epidemiology in Canada of *Neisseria gonorrhoeae*, nationally notifiable since 1940, is encouraging. The overall incidence rate of reported gonorrhoea in Canada has decreased from 216.6 per 100,000 in 1980 to 16.8 per 100,000 in 1996 (Figure 6, Appendices 2.1-2.2). This more than 10-fold decrease has made elimination a realistic goal for locally transmitted gonococcal infections by the year 2010⁽⁷⁾.



Young people between the ages of 15 and 24 years made up half (50.4%) of all cases of gonorrhoea in 1996. Among males, the highest incidence rate from 1980 to 1996 was invariably found in the 20-24 year age group, and the same was true for females from 1980 to 1984. However, from 1985 to 1996 the highest incidence rate of gonorrhoea among females was consistently found in the 15-19 year age group (Figure 7), indicating a shift in peak incidence towards younger females. The sex differential is illustrated by the male to female ratio of 1:2.5 for youth aged 15-19 in 1996.

FIGURE 7

Reported Gonorrhoea Rates¹ in Canada by Age and Sex, 1996



Rate per 100,000 population. Population estimates provided by Statistics Canada.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

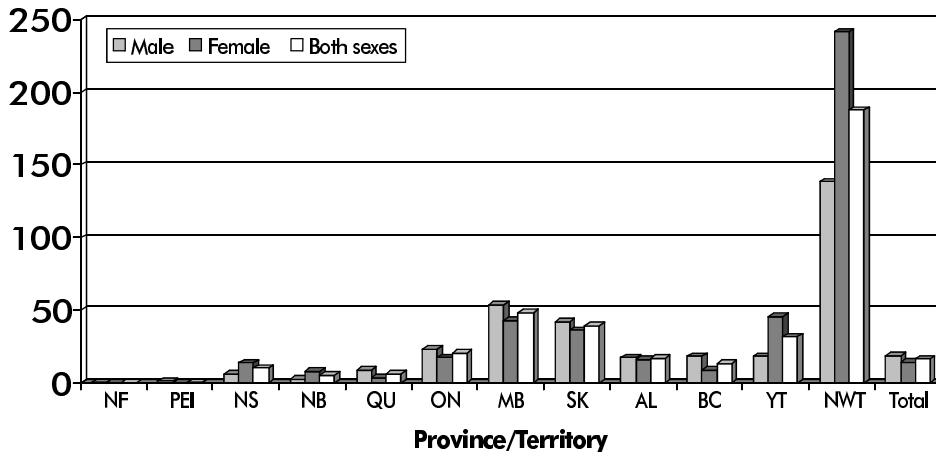
Rates of gonococcal infection vary among provinces and territories: Figure 8 shows the regional distribution of gonorrhoea in 1996.

Resistant strains of *Neisseria gonorrhoeae*

Current data show a changing pattern regarding resistant strains of *N. gonorrhoeae*, as reported by the National Laboratory for STD (Table 1). Before 1991, most of the strains received by the National Laboratory were identified as plasmid-mediated, penicillinase-producing *N. gonorrhoeae* (PPNG). In the last 4 to 5 years, however, strains resistant to tetracycline (TRNG) have been increasing, to become the predominant type.

FIGURE 8

Reported Gonorrhoea Rates¹ in Canada by Province/Territory and Sex, 1996



Rate per 100,000 population. Population estimates provided by Statistics Canada.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Table 1

Antimicrobial resistant *N. gonorrhoeae* laboratory specimens in Canada, 1986-1996

Year	Number of reported cases in Canada	Number tested by NLSTD ¹	PPNG ²		PP/TRNG ³		TRNG ⁴		CMRNG ⁵		Number of <i>N. gonorrhoeae</i> isolates with reduced susceptibility to ciprofloxacin ⁷			
			No.	% ⁶	No.	% ⁶	No.	% ⁶	No.	% ⁶	No.	% ⁶	MIC ⁸ range (mg/L)	Total
1986	35,287	604	511	84.6	4	0.7	2	0.3	30	5.0				
1987	27,918	568	440	77.5	-	0.0	15	2.6	42	7.4				
1988	20,102	3,914	624	15.9	11	0.3	44	1.1	80	2.0				
1989	19,110	2,041	1,088	53.3	48	2.4	27	1.3	60	2.9	2	-	2	0.1
1990	13,822	1,605	1,138	70.9	253	15.8	65	4.0	86	5.4	8	-	8	0.5
1991	12,457	2,636	704	26.7	578	21.9	321	12.2	184	7.0	-	-	-	0.0
1992	9,253	3,646	584	16.0	226	6.2	618	17.0	345	9.5	13	1	14	0.4
1993	6,832	1,515	149	9.8	120	7.9	670	44.2	186	12.3	30	2	32	2.1
1994	6,167	1,594	106	6.6	202	12.7	1,005	63.0	179	11.2	59	5	64	4.0
1995	5,715	1,480	128	8.6	223	15.1	904	61.1	147	9.9	36	15	51	3.4
1996	5,023	1,282	120	9.4	102	8.0	638	49.8	321	25.0	29	17	46	3.6

¹ National Laboratory for Sexually Transmitted Diseases. The number tested is not necessarily the sum of the following columns; some isolates were sensitive to antibiotics.

² Penicillinase-producing (plasmid-mediated penicillin resistant) *Neisseria gonorrhoeae*

³ Plasmid-mediated penicillin/tetracycline resistant *Neisseria gonorrhoeae*

⁴ Plasmid-mediated tetracycline resistant *Neisseria gonorrhoeae*

⁵ Chromosomally-mediated resistance to different antibiotics

⁶ Percentages are calculated using the number of specimens tested by NLSTD as the denominator.

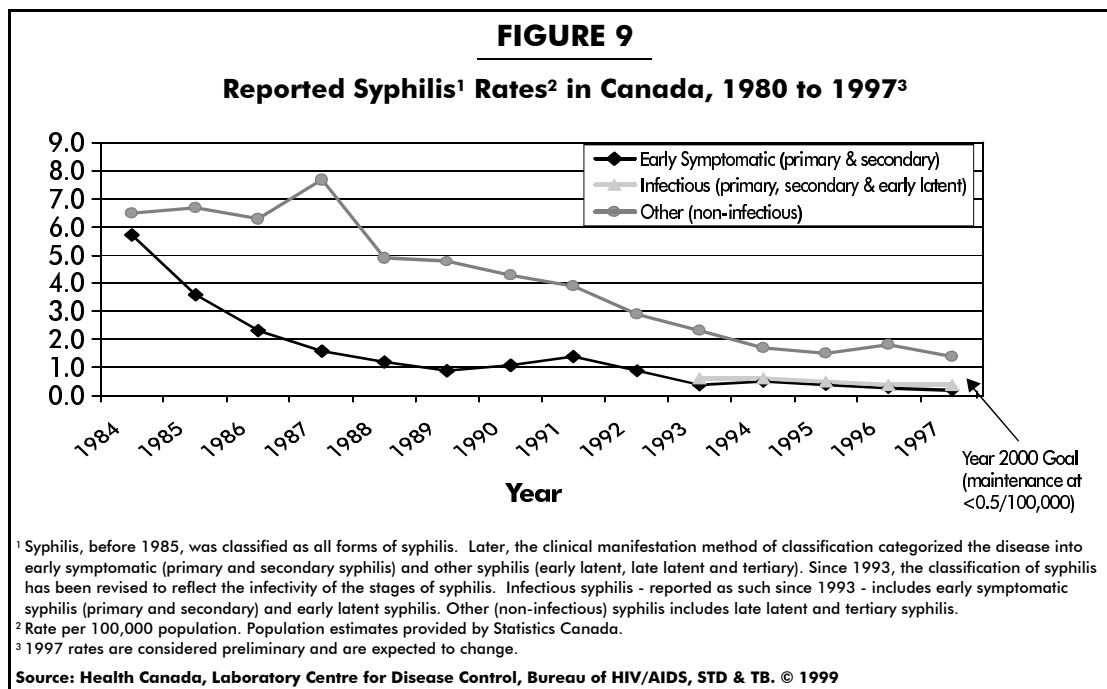
⁷ Isolates with reduced susceptibility to ciprofloxacin include isolates that are PPNG, TRNG, CMRNG or otherwise susceptible to all antimicrobials tested by the NLSTD.

⁸ MIC: Minimal Inhibitory Concentration

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of Microbiology. © 1999

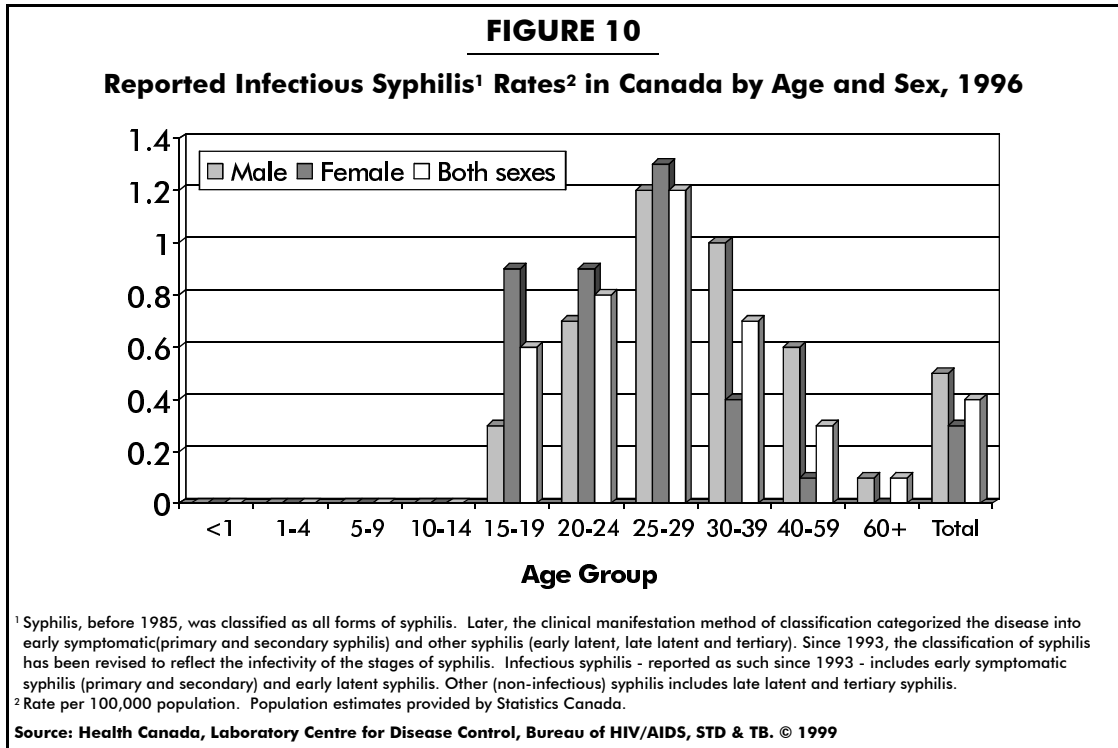
Syphilis

Since 1993, the Division of STD Prevention and Control has been reporting Syphilis cases according to their infectiousness. Infectious Syphilis now comprises Early Symptomatic (primary and secondary) syphilis and Early Latent syphilis. Infectious syphilis incidence rates in 1996 indicate that, in Canada, this STD is on the periphery of elimination. The goal for the year 2000 is to maintain disease rates for infectious syphilis below 0.5 per 100,000 and to prevent all cases of endemic congenital syphilis⁽⁷⁾. In 1996, 123 cases of infectious syphilis were reported to LCDC (0.4 per 100,000), and preliminary data for 1997 indicate that this rate has remained the same (Figure 9, Appendices 3.1 and 3.2).



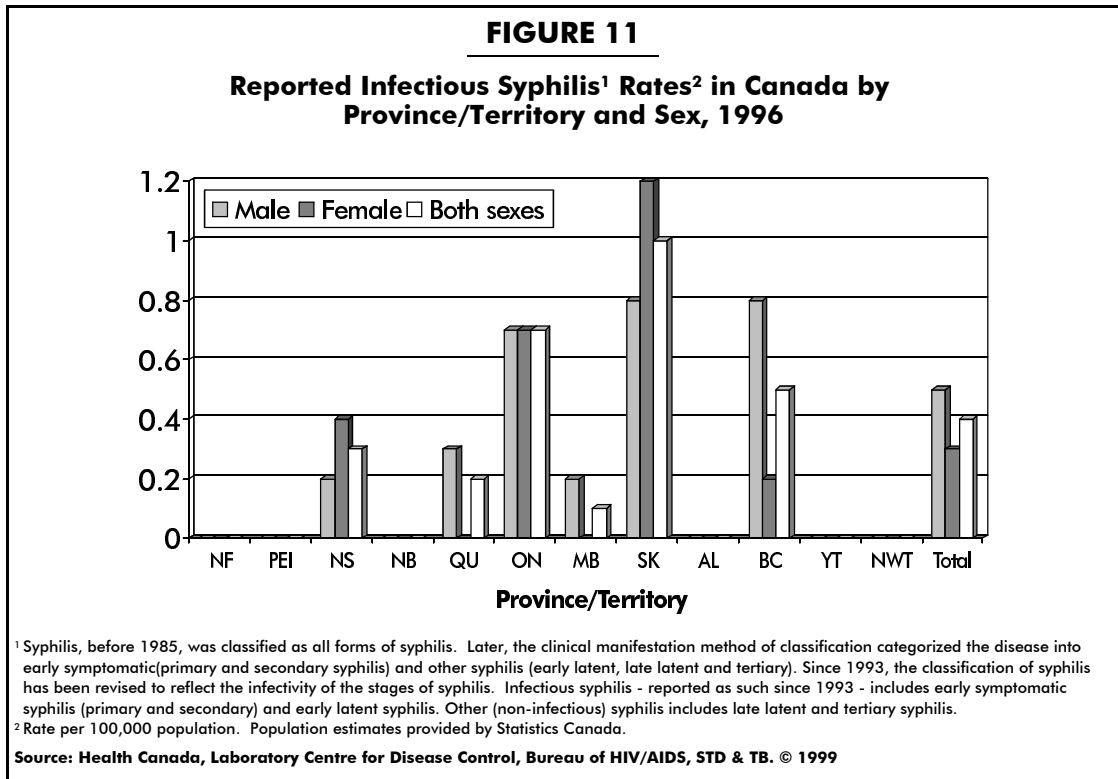
In contrast to previous years, syphilis rates are highest among both males and females in the 25-29 year old age group (Figure 10), although the number is so low that it is impossible to draw from this any significant conclusions. The provincial/territorial distribution of infectious syphilis is shown in Figure 11.

Appendix 3.3 includes early symptomatic (primary and secondary) syphilis data reported from 1980 to 1997 using the previous method of categorization according to clinical manifestation.



Congenital syphilis

As Appendix 3.4 indicates, the congenital syphilis rates in Canada are very low: in 1996 and 1997 the incidence rates were 0.3 and 0.6 per 100,000 respectively, representing only one reported case in 1996 and two in 1997.



Human papillomavirus

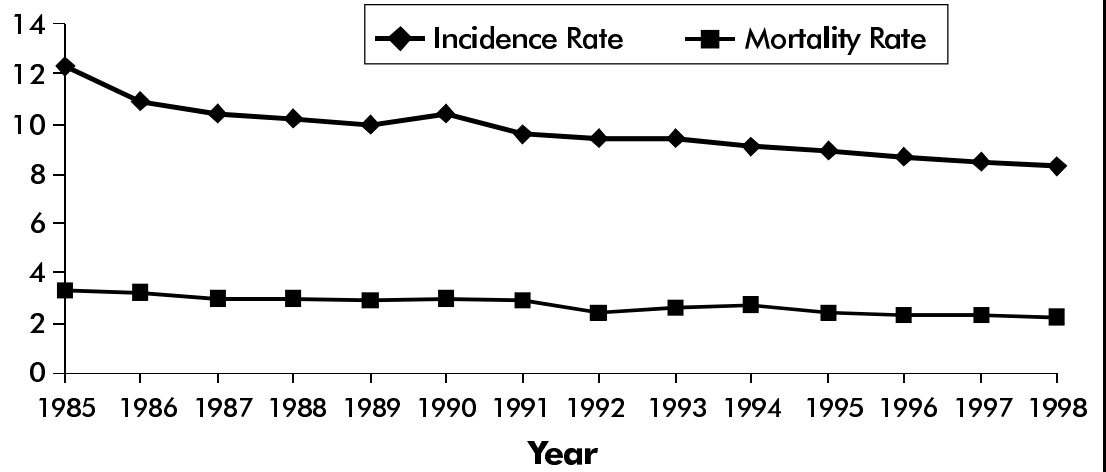
Human papillomavirus (HPV) has never been nationally notifiable in Canada, even in its clinically manifested form of genital warts. As a result, national prevalence rates for HPV are difficult to estimate. Without surveillance data, researchers have to rely on incidental data such as laboratory testing results, research studies and prevalence/incidence rates of cervical cancer to make inferences about HPV prevalence in Canada. Table 2 shows the laboratory test results for HPV specimens, provided by the National Laboratory for Viral Oncology, from 1994 to 1996. Figure 12 shows the incidence and mortality rates for cervical cancer over the same period of time, provided by the Cancer Bureau of LCDC.

Table 2							
Cervical specimens: typing of human papillomavirus, 1996							
Province	Number of specimens						Total
	Negative	HPV 11	HPV 16	HPV 18	HPV 16/18	Other	
Alberta	115	1	6	0	1	8	131
Saskatchewan	221	1	106	10	6	48	392
Manitoba	1	0	0	0	4	0	5
Ontario	59	0	9	2	0	7	77
New Brunswick	1	0	0	0	0	2	3

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of Microbiology. © 1999

FIGURE 12

Cervical Cancer: Incidence and Mortality per 100,000 Females, Canada, 1990-1998



Source: Canadian Cancer Statistics, 1990 to 1998, National Cancer Institute of Canada, Statistics Canada, Provincial/Territorial Cancer Registries, Health Canada. © 1999

Herpes

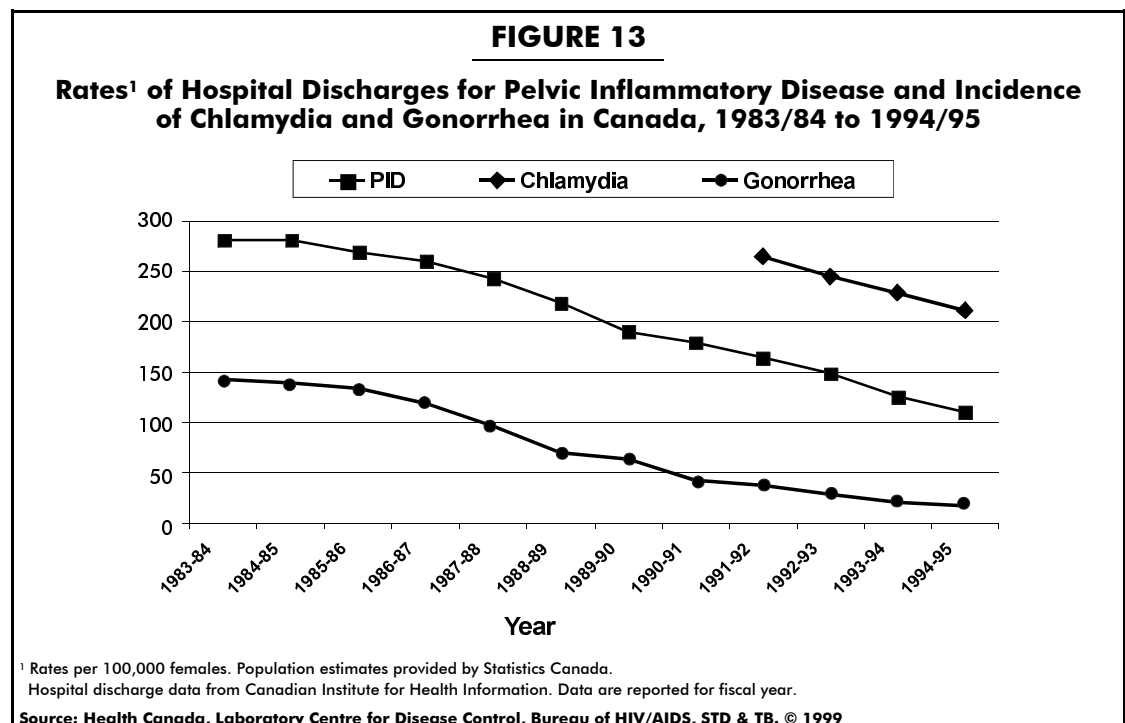
As herpes simplex virus (HSV) is not nationally notifiable, prevalence rates in Canada cannot be determined. However, laboratory specimen testing can provide information on the proportional distribution of the different serotypes of HSV, which have remained relatively stable since 1990 (Table 3). In 1996, 17,687 specimens were tested in the National Laboratory for Viral and Zoonotic Diseases.

Type	1990	1991	1992	1993	1994	1995	1996	1997
Herpes simplex 1	4,065	4,731	5,279	6,509	6,449	6,536	7,194	8,040
Herpes simplex 2	4,055	5,197	6,128	6,991	7,117	7,000	6,933	7,925
Herpes simplex non-typeable	4,136	3,596	3,483	2,238	882	1,152	2,168	2,104
Total	12,256	13,524	14,890	15,738	14,448	14,688	16,295	18,069

¹ Specimens classified as Herpes group were not included.
 Source: Health Canada, Laboratory Centre for Disease Control, Bureau of Microbiology. © 1999

Sequelae of STD: Pelvic Inflammatory Disease and Ectopic Pregnancy

It was estimated in 1993 that approximately 30-50% of pelvic inflammatory disease (PID) in Canada is attributable to either gonorrhea, chlamydia or both⁽²⁾. In Figure 13, estimates for age-specific rates of hospitalizations for PID in Canada from 1983/94 to 1994/95 are compared with incidence rates of chlamydial and gonococcal infections during the same period. However, these rates were calculated from hospital separation records (ICD-9 Code 614), so only the more severe cases are represented. Current surveillance systems do not account for outpatient PID or asymptomatic (silent) PID. The trend in PID hospitalizations tends to mirror the trends in chlamydia and gonorrhea: that is, a gradual annual decrease in the incidence rates. In 1983-84 the incidence rate of PID for women of child-bearing age (15-44) was 281.8 cases per 100,000 age-specific population, which decreased to 110.8 in 1994-95 (Appendix 4).



As with PID, ectopic pregnancy rates correlate strongly with chlamydial infection rates. A recent Swedish study found evidence that chlamydial infections seem to be the main cause of ectopic pregnancy in young women ⁽⁸⁾. Ectopic pregnancy data were retrieved from Statistics Canada, as were the population (live births, stillbirths, therapeutic abortions) estimates. The rates of ectopic pregnancies increased from 11.7 to 16.9 per 1,000 pregnancies from 1986 to 1993 (Table 4). Both PID and ectopic pregnancies can have severe implications for future fertility in women.

Table 4
Ectopic pregnancies in Canada, 1986-1994

Year	Number of cases	Number of pregnancies*	Rate per 1,000 pregnancies
1986	5,132	440,607	11.65
1987	6,206	437,797	14.18
1988	7,039	449,154	15.67
1989	7,702	470,794	16.36
1990	8,314	486,057	17.10
1991	8,210	481,128	17.06
1992	8,313	477,783	17.40
1993	7,920	468,976	16.89
1994**	5,649	464,628	12.16

* The denominator (1000 pregnancies) is calculated by adding live births, still births, therapeutic, abortions and ectopic pregnancies. There is no data included for spontaneous or illegal abortions.
** Quebec data were not available and are not included.

Source: Statistics Canada, Health Statistics Division. © 1999

International Comparisons: Canada and the United States

Comparisons of disease incidence between countries is always problematic and has to be approached cautiously; however, the value of these comparisons lies in highlighting disease-specific trends and in determining the relative success of STD prevention and control activities. Of the three reportable bacterial STD, genital chlamydia (Figure 14) has shown the most diversity in Canadian and U.S. rates since it became reportable in 1991. Syphilis and gonorrhea, on the other hand, have shown reasonably similar international trends in incidence since 1980 (Figures 15 and 16).

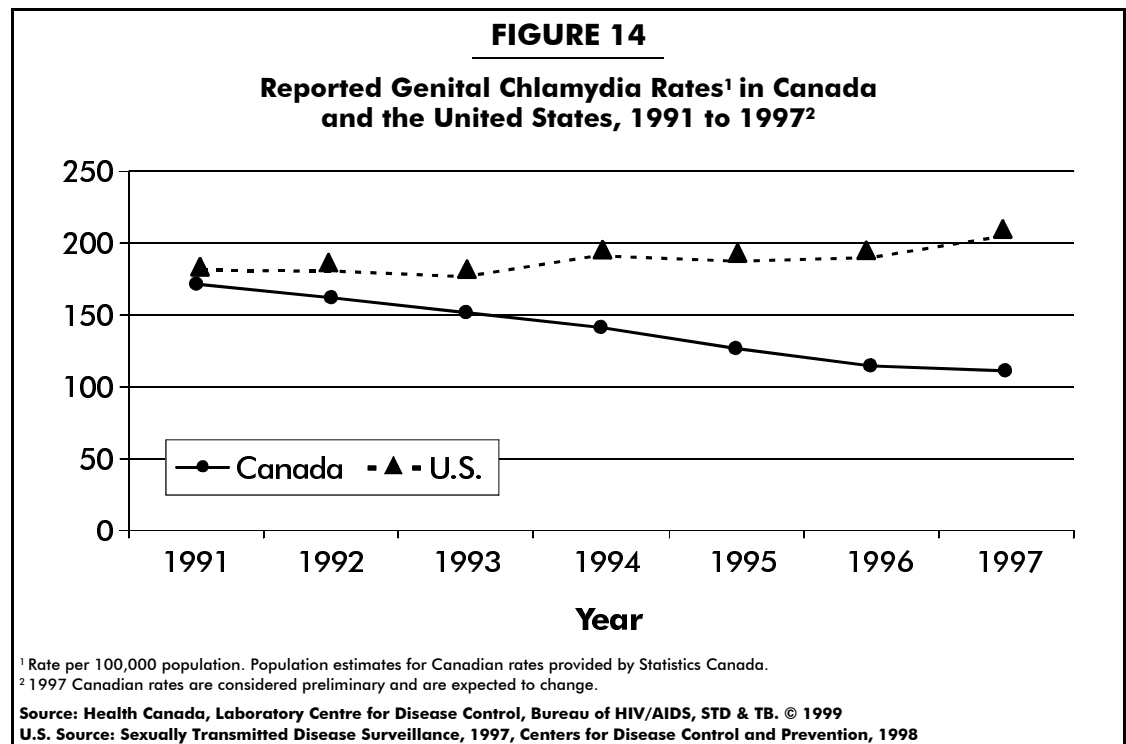
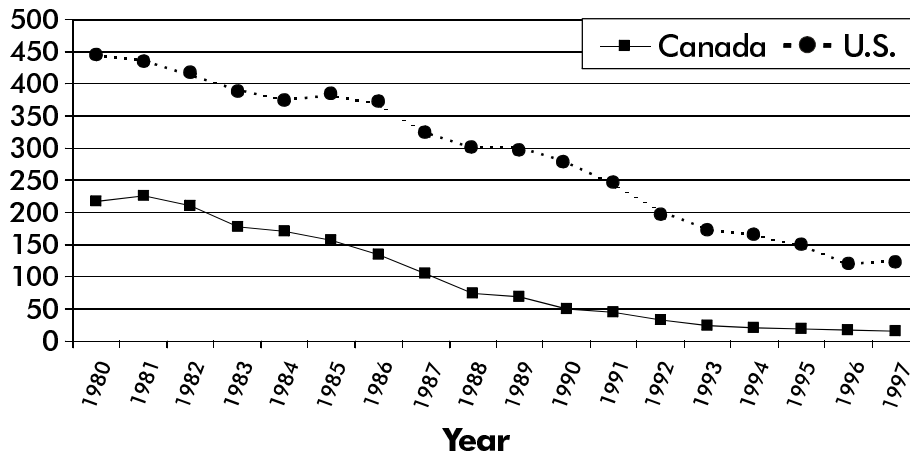


FIGURE 15

Reported Gonorrhoea Rates¹ in Canada and the United States, 1980 to 1997²



¹ Rate per 100,000 population. Population estimates for Canadian rates provided by Statistics Canada.

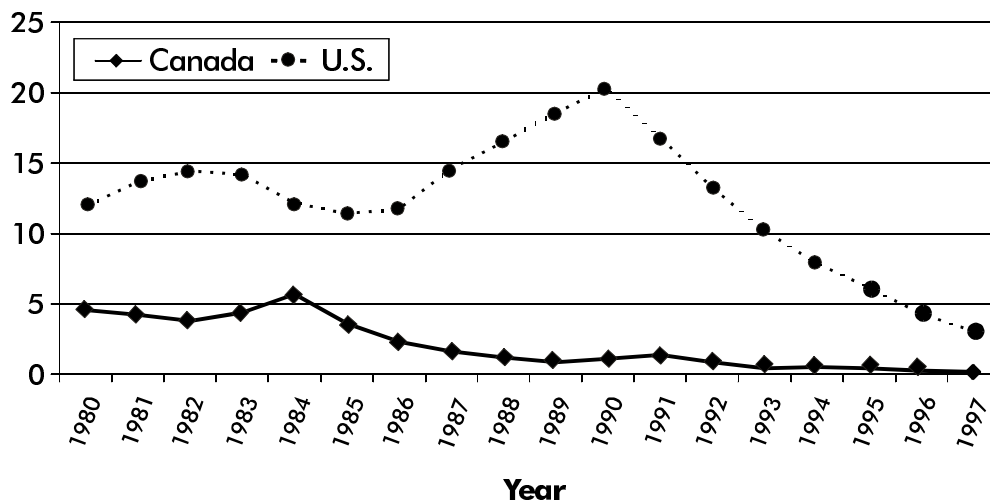
² 1997 Canadian rates are considered preliminary and are expected to change.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

U.S. Source: Sexually Transmitted Disease Surveillance, 1997, Centers for Disease Control and Prevention, 1998

FIGURE 16

Reported Early Symptomatic (primary and secondary) Syphilis Rates¹ in Canada and the United States, 1980 to 1997²



¹ Rate per 100,000 population. Population estimates for Canadian rates provided by Statistics Canada.

² 1997 Canadian rates are considered preliminary and are expected to change.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

U.S. Source: Sexually Transmitted Disease Surveillance, 1997, Centers for Disease Control and Prevention, 1998

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Appendices

Appendix 1.1

Reported Genital Chlamydia Cases and Rates* in Canada by Age Group and Sex, 1991-1997†

Year	Cases	Rate	Age Group (years)													60+	NS
			0<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-59	60+	NS				
1991	Male	11,544	11	5	2	39	2,257	4,731	2,469	1,566	426	38	0	0	0	0	0
	Female	36,740	37	19	13	663	14,109	13,543	5,136	2,633	526	61	0	0	0	0	0
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	48,284	48	24	15	702	16,366	18,274	7,605	4,199	952	99	0	0	0	0	0
1992	Male	85.8	5.4	0.2	4.1	235.5	480.2	208.8	66.0	13.6	2.0	2.0	0	0	0	0	0
	Female	265.4	19.3	1.4	72.4	1,550.0	1,386.7	430.5	109.5	16.8	2.5	2.5	0	0	0	0	0
	Unspecified	171.7	11.9	0.8	36.7	849.7	866.3	300.7	84.9	14.9	2.2	2.2	0	0	0	0	0
	Total	10,811	24	3	32	2,047	4,290	2,122	1,423	400	34	429	0	0	0	0	0
1992	Male	35,363	23	16	14	605	13,235	12,466	4,550	2,407	526	58	1,463	0	0	0	0
	Female	191	0	1	0	9	18	6	3	0	1	153	0	0	0	0	0
	Unspecified	46,365	47	24	17	637	15,291	16,774	6,678	3,833	926	93	2,045	0	0	0	0
	Total	76.4	11.6	0.3	3.2	207.2	403.0	169.2	55.8	12.1	1.7	1.7	0	0	0	0	0
1993	Male	245.7	11.7	2.1	64.1	1,403.3	1,203.5	373.3	95.8	16.0	2.3	2.3	0	0	0	0	0
	Female	162.4	11.7	1.5	32.9	791.8	798.8	270.0	75.7	14.0	2.1	2.1	0	0	0	0	0
	Unspecified	10,621	9	4	51	2,077	4,132	2,250	1,490	451	27	124	0	0	0	0	0
	Total	33,379	18	11	600	12,744	12,012	4,558	2,542	500	40	343	0	0	0	0	0
1993	Male	44,022	27	15	17	651	14,825	16,145	6,810	4,035	951	67	479	0	0	0	0
	Female	74.0	4.5	0.6	5.1	208.6	390.1	185.5	57.1	13.2	1.3	1.3	0	0	0	0	0
	Unspecified	228.7	9.5	1.1	62.6	1,342.1	1,166.9	685.9	99.1	14.7	1.5	1.5	0	0	0	0	0
	Total	152.1	6.9	0.9	33.2	762.2	773.0	284.4	78.0	14.0	1.5	1.5	0	0	0	0	0
1994	Male	10,006	20	2	4	33	1,914	3,859	2,022	1,544	460	38	110	0	0	0	0
	Female	31,176	27	13	13	577	11,567	11,282	4,165	2,669	589	40	234	0	0	0	0
	Unspecified	53	0	0	0	5	16	9	5	0	0	18	0	0	0	0	0
	Total	41,235	47	15	17	610	13,486	15,157	6,196	4,218	1,049	78	362	0	0	0	0
1994	Male	69.0	10.1	0.2	3.2	190.4	369.8	173.7	58.5	13.0	1.8	1.8	0	0	0	0	0
	Female	211.3	14.3	1.3	59.5	1,208.4	1,111.5	366.0	103.1	16.7	1.5	1.5	0	0	0	0	0
	Unspecified	141.0	12.1	0.9	30.7	687.2	736.2	269.2	80.7	14.9	1.7	1.7	0	0	0	0	0
	Total	9,085	24	3	21	1,721	3,478	1,848	1,484	398	33	69	0	0	0	0	0
1995	Male	28,451	32	5	10	466	10,704	10,496	3,745	2,312	459	31	191	0	0	0	0
	Female	15	0	0	0	2	2	1	0	0	1	9	0	0	0	0	0
	Unspecified	37,551	56	11	13	487	12,427	13,976	5,594	3,796	858	64	269	0	0	0	0
	Total	61.9	12.2	0.3	2.0	169.6	335.6	163.1	55.7	10.9	1.6	1.6	0	0	0	0	0
1995	Male	190.4	17.2	0.6	47.6	1,109.1	1,041.7	336.8	88.5	12.6	1.2	1.2	0	0	0	0	0
	Female	126.8	14.7	0.7	24.3	627.6	683.7	249.2	72.0	11.8	1.3	1.3	0	0	0	0	0
	Unspecified	8,317	9	1	23	1,524	3,128	1,745	1,372	436	22	57	0	0	0	0	0
	Total	26,062	14	9	435	9,752	9,439	3,549	2,134	530	26	160	0	0	0	0	0
1996	Male	34,399	23	10	14	458	11,282	12,572	5,295	3,508	966	48	217	0	0	0	0
	Female	56.0	4.8	0.1	2.2	148.5	302.7	155.6	51.2	11.5	1.0	1.0	0	0	0	0	0
	Unspecified	172.4	7.8	1.4	44.0	998.6	941.2	322.0	81.5	14.0	1.0	1.0	0	0	0	0	0
	Total	114.8	6.2	0.7	22.7	563.3	617.4	238.1	66.2	12.8	1.0	1.0	0	0	0	0	0
1997	Male	8,828	4	0	51	1,620	3,251	1,793	1,532	484	23	70	0	0	0	0	0
	Female	24,816	15	3	364	9,263	8,967	3,415	2,106	508	36	131	0	0	0	0	0
	Unspecified	22	0	0	0	5	1	1	0	0	14	0	0	0	0	0	0
	Total	33,666	19	3	415	10,885	12,223	5,209	3,638	992	59	215	0	0	0	0	0
1997	Male	58.9	2.2	0.0	4.9	156.2	314.2	161.5	57.5	12.4	1.1	1.1	0	0	0	0	0
	Female	162.3	8.5	0.8	36.7	938.7	931.7	312.6	80.8	13.0	1.3	1.3	0	0	0	0	0
	Unspecified	111.2	5.2	0.4	20.5	537.8	619.1	547.2	69.0	12.7	1.2	1.2	0	0	0	0	0

* Rate per 100,000 population. Population estimates provided by Statistics Canada.

† 1997 numbers are considered preliminary and are expected to change.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 1.2

Reported Genital Chlamydia Cases and Rates* in Canada by Province/Territory and Sex, 1991-1997†

Year		Total	Province/Territory										YUKON	BC	ALTA	SASK	MB	ONT	QUE	NB	NS	PEI	NF	NW†		
			Male	Female	Total‡	Rate	Cases	Rate	Cases	Rate	Cases	Rate													Cases	Rate
1991	Cases	11,544	74	22	395	0	3,461	0	1,213	903	0	0	0	0	0	0	0	0	0	0	0	0	0	54	272	
	Female	36,740	518	73	1,832	0	9,830	0	3,338	2,388	0	0	0	0	0	0	0	0	0	0	0	0	0	141	776	
	Total‡	48,284	594	96	2,230	0	13,329	0	4,551	3,291	0	0	0	0	0	0	0	0	0	0	0	0	0	195	1,048	
1991	Rate	85.8	25.4	34.0	87.1	0.0	99.2	0.0	219.6	180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	354.4	849.5	
	Female	265.4	179.2	110.5	394.3	0.0	273.7	0.0	595.9	473.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,013.7	2,649.7	
	Total‡	171.7	102.4	73.4	242.9	0.0	188.2	0.0	409.1	327.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	669.0	1,709.5	
1992	Cases	10,811	32	43	325	230	2,737	2,905	865	594	1,431	1,386	46	217	146	682	899	192	146	146	146	146	146	146	146	
	Female	35,363	417	148	1,321	1,109	7,595	9,915	2,425	1,814	4,881	4,910	146	682	899	192	146	146	146	146	146	146	146	146	146	146
	Total‡	46,365	450	204	1,646	1,339	10,361	12,830	3,290	2,408	6,312	6,434	192	682	899	192	146	146	146	146	146	146	146	146	146	146
1992	Rate	76.4	10.9	66.1	71.2	61.6	77.5	55.2	155.9	118.2	107.3	80.2	291.7	664.0	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6	282.6
	Female	245.7	143.7	222.3	282.2	292.1	209.2	184.2	430.8	358.8	371.7	280.9	1,006.9	2,282.6	2,282.6	2,282.6	2,282.6	2,282.6	2,282.6	2,282.6	2,282.6	2,282.6	2,282.6	2,282.6	2,282.6	2,282.6
	Total‡	162.4	77.1	155.0	178.0	177.8	144.7	120.5	238.9	238.9	238.9	185.1	634.3	1,437.1	1,437.1	1,437.1	1,437.1	1,437.1	1,437.1	1,437.1	1,437.1	1,437.1	1,437.1	1,437.1	1,437.1	1,437.1
1993	Cases	10,621	51	24	324	179	2,513	3,504	859	644	1,190	1,051	36	246	130	726	972	166	130	130	130	130	130	130	130	
	Female	33,379	412	110	1,134	887	7,129	10,529	2,400	1,665	4,006	4,251	130	726	972	166	130	130	130	130	130	130	130	130	130	
	Total‡	44,022	463	139	1,459	1,066	9,647	14,041	3,259	2,309	5,199	5,302	166	972	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	
1993	Rate	74.0	17.4	36.4	70.5	47.8	70.4	65.5	154.0	127.9	88.0	59.2	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	
	Female	228.7	141.8	163.5	240.8	328.3	194.3	328.3	328.3	328.3	300.3	236.5	2,379.5	2,379.5	2,379.5	2,379.5	2,379.5	2,379.5	2,379.5	2,379.5	2,379.5	2,379.5	2,379.5	2,379.5	2,379.5	
	Total‡	152.1	79.3	104.4	156.8	141.1	133.3	129.8	289.9	228.4	193.6	148.2	545.3	1,526.8	1,526.8	1,526.8	1,526.8	1,526.8	1,526.8	1,526.8	1,526.8	1,526.8	1,526.8	1,526.8	1,526.8	
1994	Cases	10,006	60	22	392	174	2,043	3,257	815	665	1,164	1,126	37	251	116	751	1,002	153	116	116	116	116	116	116	116	
	Female	31,176	296	85	1,052	743	5,783	10,196	1,832	1,832	3,845	4,217	116	751	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	
	Total‡	41,235	356	109	1,446	917	7,837	13,465	3,075	2,497	5,010	5,368	153	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	
1994	Rate	69.0	20.6	33.1	69.0	46.3	56.9	60.3	145.5	132.1	85.2	61.7	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	746.4	
	Female	211.3	102.2	124.9	156.5	194.4	156.5	184.3	397.0	360.2	285.3	228.6	2,417.5	2,417.5	2,417.5	2,417.5	2,417.5	2,417.5	2,417.5	2,417.5	2,417.5	2,417.5	2,417.5	2,417.5	2,417.5	
	Total‡	141.0	61.3	81.0	154.8	121.0	107.5	123.1	272.2	246.7	184.5	146.3	515.1	1,548.8	1,548.8	1,548.8	1,548.8	1,548.8	1,548.8	1,548.8	1,548.8	1,548.8	1,548.8	1,548.8	1,548.8	
1995	Cases	9,085	45	27	282	164	1,759	2,931	782	612	1,167	1,057	34	225	122	689	914	156	122	122	122	122	122	122	122	
	Female	28,451	227	85	884	598	5,278	9,157	2,226	1,737	3,851	3,602	122	689	914	914	914	914	914	914	914	914	914	914	914	
	Total‡	37,551	272	112	1,167	762	7,048	12,090	3,008	2,344	5,018	4,660	156	914	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	1,002	
1995	Rate	61.9	15.6	40.1	61.0	43.5	48.7	53.5	138.6	121.2	84.4	56.5	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	659.6	
	Female	190.4	79.1	123.4	186.1	155.9	141.9	163.0	388.2	340.0	282.4	190.2	2,172.5	2,172.5	2,172.5	2,172.5	2,172.5	2,172.5	2,172.5	2,172.5	2,172.5	2,172.5	2,172.5	2,172.5	2,172.5	
	Total‡	126.8	47.5	82.3	124.4	94.7	96.1	109.0	264.4	230.8	182.7	123.7	1,388.5	1,388.5	1,388.5	1,388.5	1,388.5	1,388.5	1,388.5	1,388.5	1,388.5	1,388.5	1,388.5	1,388.5	1,388.5	
1996	Cases	8,317	60	34	200	168	1,640	2,578	598	659	1,183	917	241	241	105	658	899	144	105	105	105	105	105	105	105	
	Female	26,062	219	97	873	665	5,006	8,025	1,961	1,577	3,685	3,191	658	899	899	899	899	899	899	899	899	899	899	899	899	
	Total‡	34,399	279	131	1,074	833	6,655	10,605	2,559	2,236	4,868	4,116	241	241	241	241	241	241	241	241	241	241	241	241	241	
1996	Rate	56.0	21.0	50.3	43.0	44.5	45.0	46.3	105.7	130.1	84.2	47.8	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	694.5	
	Female	172.4	76.7	140.2	182.5	172.8	133.6	140.9	341.2	307.4	265.6	164.5	2,047.1	2,047.1	2,047.1	2,047.1	2,047.1	2,047.1	2,047.1	2,047.1	2,047.1	2,047.1	2,047.1	2,047.1	2,047.1	
	Total‡	114.8	48.8	95.8	113.9	109.3	90.1	94.2	224.4	219.3	174.3	106.7	1,344.9	1,344.9	1,344.9	1,344.9	1,344.9	1,344.9	1,344.9	1,344.9	1,344.9	1,344.9	1,344.9	1,344.9	1,344.9	
1997	Cases	8,828	57	39	243	176	1,665	2,807	579	691	1,216	1,002	321	321	140	725	1,046	172	140	140	140	140	140	140	140	
	Female	24,816	282	100	890	578	4,069	7,750	1,977	1,568	3,677	3,110	725	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	
	Total‡	33,666	339	139	1,134	755	5,747	10,559	2,507	2,259	4,893	4,116	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	1,046	
1997	Rate	58.9	20.3	57.5	52.1	46.7	45.5	49.8	102.0	135.9	256.7	51.2	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	916.6	
	Female	162.3	99.9	144.0	108.1	150.1	108.1	134.3	333.7	304.4	86.0	156.9	2,230.2	2,230.2	2,230.2	2,230.2	2,230.2	2,230.2	2,230.2	2,230.2	2,230.2	2,230.2	2,230.2	2,230.2	2,230.2	
	Total‡	111.2	60.1	101.3	119.6	99.1	77.5	92.6	218.9	220.7	171.9	104.4	1,549.0	1,549.0	1,549.0	1,549.0	1,549.0	1,549.0	1,549.0	1,549.0	1,549.0	1,549.0	1,549.0	1,549.0	1,549.0	

* Rate per 100,000 population. Population estimates provided by Statistics Canada.

† 1997 numbers are preliminary and are expected to change.

‡ Totals include cases not specified for sex.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 2.1

Reported Gonorrhoea Cases and Rates* in Canada by Age Group and Sex, 1980-1986

Year	Total		Age Group (years)													60+	NS
	Cases	Rate	0<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-59	60+	NS				
1980	Male	32,555	10	6	43	3,921	10,821	7,505	6,542	2,241	173	1,293					
	Female	20,485	18	34	193	6,075	7,234	3,280	1,962	436	31	1,186					
	Unspecified	231	0	0	0	1	0	0	0	0	0	0					
	Total	53,271	28	36	236	9,997	18,055	10,786	8,504	2,677	204	2,708					
	Male	265.6	5.3	0.6	4.2	316.3	876.5	674.3	354.1	89.2	12.0	646					
	Female	166.1	10.1	5.2	20.1	510.8	598.2	297.3	174	109.7	1.7	501					
	Total	216.6	7.7	2.5	12.0	411.6	738.8	486.6	233.9	53.3	6.3	646					
1981	Male	34,337	5	8	54	4,435	11,991	7,906	6,959	2,179	149	646					
	Female	21,863	10	28	219	6,932	8,034	3,487	2,110	476	33	501					
	Unspecified	130	0	0	0	2	3	2	1	0	0	122					
	Total	56,330	15	33	273	11,369	20,028	11,395	9,070	2,655	182	1,269					
	Male	276.9	2.7	0.7	5.4	364.6	949.7	696.1	364.4	85.6	10.0	646					
	Female	174.9	5.6	4.0	23.2	596.1	649.3	309.7	113.6	18.8	1.8	501					
	Total	226.2	4.1	2.3	14.1	477.8	801.1	503.8	240.8	52.2	5.4	646					
1982	Male	32,078	5	3	46	4,063	11,239	7,309	6,399	2,169	147	697					
	Female	20,893	8	22	211	6,563	7,816	3,363	1,899	422	21	536					
	Unspecified	101	0	0	0	0	3	2	0	0	0	96					
	Total	53,072	13	25	257	10,626	19,058	10,674	8,298	2,591	168	1,329					
	Male	255.7	2.6	0.4	4.7	344.1	882.3	623.7	324.6	84.1	9.6	646					
	Female	165.0	4.4	3.1	22.7	584.3	629.2	289.2	98.7	16.5	1.1	536					
	Total	210.6	3.5	1.7	13.4	461.2	757.5	457.2	213.1	50.4	4.8	646					
1983	Male	27,006	10	2	32	3,223	9,455	6,186	5,592	1,801	116	586					
	Female	18,148	6	19	185	5,469	6,904	2,934	1,719	414	25	442					
	Unspecified	111	0	0	0	0	5	0	0	2	0	104					
	Total	45,265	16	21	217	8,692	16,364	9,120	7,311	2,217	141	1,132					
	Male	213.3	5.3	0.3	3.3	285.1	736.0	514.7	276.4	68.8	7.4	586					
	Female	141.9	3.3	2.7	20.1	509.9	555.0	246.4	86.7	15.9	1.2	442					
	Total	177.8	4.3	1.4	11.5	394.6	647.1	381.2	182.5	42.5	3.9	646					
1984	Male	25,852	7	2	51	3,094	9,024	5,966	5,226	1,828	98	553					
	Female	17,924	4	22	240	5,501	6,832	2,792	1,677	365	23	442					
	Unspecified	98	0	0	0	4	2	0	1	0	0	91					
	Total	43,874	11	24	291	8,599	15,858	8,758	6,904	2,193	121	1,086					
	Male	202.3	3.7	0.3	5.3	286.3	697.6	487.8	251.5	68.7	6.1	586					
	Female	138.7	2.2	3.1	26.4	537.5	549.6	231.3	81.9	13.8	1.1	442					
	Total	170.7	3.0	1.6	15.6	408.7	625.1	360.4	167.4	41.4	3.3	646					
1985	Male	23,277	8	1	41	2,804	8,545	5,091	4,484	1,522	88	689					
	Female	17,399	5	19	207	5,448	6,445	2,666	1,598	349	18	618					
	Unspecified	61	0	0	0	2	3	1	0	0	0	55					
	Total	40,737	13	20	248	8,254	14,993	7,758	6,082	1,871	106	1,362					
	Male	180.6	4.2	0.1	4.3	269.0	662.4	410.4	209.6	56.3	5.3	689					
	Female	133.3	2.8	2.6	23.0	552.7	522.4	219.0	75.6	13.0	0.8	618					
	Total	157.0	3.5	1.4	13.4	407.0	594.1	315.6	143.0	34.8	2.8	646					
1986	Male	19,458	7	1	34	2,715	7,042	4,542	3,413	1,164	100	434					
	Female	15,744	7	23	227	5,128	5,690	2,513	1,394	320	28	393					
	Unspecified	85	0	0	0	0	3	1	0	0	0	81					
	Total	35,287	14	24	261	7,843	12,732	7,058	4,808	1,484	128	908					
	Male	149.5	3.7	0.1	3.7	264.8	555.8	359.2	155.5	42.2	5.9	434					
	Female	119.4	3.9	3.2	25.5	528.5	64.1	11.7	64.1	11.7	1.3	393					
	Total	134.7	3.8	1.6	14.4	393.1	514.6	282.8	110.0	27.0	3.3	646					

* Rate per 100,000 population. Population estimates provided by Statistics Canada.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 2.1

Reported Gonorrhoea Cases and Rates* in Canada by Age Group and Sex, 1987-1993

Year		Total	Age Group (years)													60+	NS			
			0<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-59	60+	NS							
1987	Cases	14,755	3	7	4	35	2,288	5,361	3,307	2,447	897	74	332	323	298	2,017	1,084	0	239	894
	Female	12,923	6	18	30	195	4,357	4,578	2,017	1,084	298	17	323	298	2,017	1,084	0	239	894	74
	Unspecified	240	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	Cases	27,918	9	25	34	230	6,646	9,939	5,324	3,531	1,195	91	894	239	1,195	3,531	1,195	0	894	894
	Male	112.0	1.6	0.9	3.8	227.1	438.2	256.5	109.0	31.5	31.5	4.3	332	298	2,017	1,084	0	239	894	74
	Female	96.7	3.3	3.3	2.9	454.8	393.1	161.7	48.8	10.6	10.6	0.8	323	298	2,017	1,084	0	239	894	17
1989	Cases	10,381	2	11	4	26	1,558	3,604	2,395	1,840	667	48	236	226	2,220	828	0	220	682	682
	Male	9,501	5	11	25	139	3,209	3,293	1,531	828	220	14	226	226	2,220	828	0	220	682	682
	Female	220	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1990	Cases	10,278	7	1	2	26	1,503	3,355	2,345	2,009	735	54	241	160	822	221	0	45	446	446
	Male	8,778	3	22	18	144	3,083	2,850	1,445	822	221	10	160	107	822	221	0	45	446	446
	Female	54	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1991	Cases	19,110	10	24	20	170	4,587	6,208	3,792	2,833	956	64	392	392	2,833	956	0	64	392	392
	Male	75.7	3.6	0.1	2.7	151.6	298.8	176.4	84.7	24.3	24.3	3.0	392	392	2,833	956	0	64	392	392
	Female	63.6	1.6	3.0	15.8	324.8	262.8	112.3	35.1	7.4	7.4	0.4	107	107	822	221	0	45	446	446
1992	Cases	7,681	5	1	3	21	1,140	2,373	1,791	1,553	553	57	184	184	1,553	553	0	57	184	184
	Male	6,024	9	13	9	139	2,168	1,911	918	564	176	10	107	107	564	176	0	10	107	107
	Female	117	1	0	0	3	0	7	1	4	0	0	0	0	4	0	0	0	0	0
1993	Cases	13,822	15	14	12	160	3,311	4,291	2,710	2,121	729	67	392	392	2,121	729	0	67	392	392
	Male	55.7	2.4	0.1	2.2	115.3	217.9	135.4	63.8	17.7	17.7	3.0	392	392	2,121	729	0	67	392	392
	Female	43.0	4.6	1.7	15.1	229.0	180.7	71.5	23.4	5.7	5.7	0.4	107	107	822	221	0	45	446	446
1994	Cases	7,086	4	0	0	22	576	1,141	897	831	344	41	3,230	3,230	831	344	0	41	3,230	3,230
	Male	5,352	2	12	3	109	1,082	958	454	319	93	5	2,315	2,315	319	93	0	5	2,315	2,315
	Female	19	0	0	0	0	0	1	0	0	0	0	18	18	0	0	0	0	18	18
1995	Cases	12,457	6	12	3	131	1,658	2,100	1,351	1,150	437	46	5,563	5,563	1,150	437	0	46	5,563	5,563
	Male	50.8	1.9	0.0	2.2	58.5	106.8	69.9	33.4	10.7	10.7	2.1	5,563	5,563	33.4	10.7	0	2.1	5,563	5,563
	Female	37.7	1.0	0.3	11.7	115.0	92.0	36.4	13.0	2.9	2.9	0.2	107	107	13.0	2.9	0	0.2	107	107
1996	Cases	5,148	8	0	1	19	781	1,485	1,175	1,138	428	51	62	62	1,138	428	0	51	62	62
	Male	4,093	7	9	6	140	1,644	1,195	582	381	85	12	32	32	381	85	0	12	32	32
	Female	12	0	0	0	2	0	2	4	1	1	0	2	2	1	1	0	0	2	2
1997	Cases	36.4	3.9	0.0	1.9	79.0	139.5	93.7	44.6	12.9	12.9	2.6	44.6	44.6	44.6	12.9	0	2.6	44.6	44.6
	Male	28.4	3.6	0.6	14.8	174.3	115.4	47.7	15.2	7.8	7.8	0.5	44.6	44.6	15.2	7.8	0	0.5	44.6	44.6
	Female	32.4	3.7	0.4	8.2	125.7	127.7	71.2	30.0	27.7	27.7	1.4	44.6	44.6	30.0	27.7	0	1.4	44.6	44.6
1998	Cases	3,738	1	1	3	8	596	1,013	884	845	323	26	38	38	845	323	0	26	38	38
	Male	3,086	0	11	3	88	1,185	997	402	298	79	4	19	19	298	79	0	4	19	19
	Female	8	0	0	1	2	0	0	0	0	0	0	3	3	0	0	0	0	3	3
1999	Cases	6,832	1	12	7	97	1,783	2,010	1,286	1,143	402	31	60	60	1,143	402	0	31	60	60
	Male	26.0	0.5	0.1	0.8	59.9	95.6	72.9	32.4	9.5	9.5	1.3	60	60	32.4	9.5	0	1.3	60	60
	Female	21.1	0.0	0.3	9.2	124.8	96.8	34.0	11.6	2.3	2.3	0.2	60	60	11.6	2.3	0	0.2	60	60

* Rate per 100,000 population. Population estimates provided by Statistics Canada.

† Totals include cases not specified for sex.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 2.1														
Reported Gonorrhoea Cases and Rates* in Canada by Age Group and Sex, 1994-1997†														
Year		Total	Age Group (years)											NS
			0<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-59	60+		
1994	Cases	3,478	3	0	1	10	433	796	821	971	386	34	23	
	Female	2,645	1	4	3	83	947	817	363	293	92	7	35	
	Unspecified	44	0	0	0	0	2	2	1	4	0	0	35	
	Total	6,167	4	4	4	93	1,382	1,615	1,185	1,268	478	41	93	
	Rate	24.0	1.5	0.0	0.1	1.0	43.1	76.3	70.5	36.8	10.9	1.6		
	Female	17.9	0.5	0.5	0.3	8.6	98.9	80.5	31.9	11.3	2.6	0.3		
	Total	21.1	1.0	0.2	0.2	4.7	70.4	78.4	51.5	24.2	6.8	0.9		
1995	Cases	3,322	3	2	0	9	425	769	710	980	360	36	28	
	Female	2,385	1	4	2	75	888	761	347	243	51	1	12	
	Unspecified	8	0	0	0	0	2	0	2	1	1	0	2	
	Total	5,715	4	6	2	84	1,315	1,530	1,059	1,224	412	37	42	
	Rate	22.6	1.5	0.2	0.0	0.9	41.8	74.1	62.5	36.7	9.9	1.7		
	Female	16.0	0.5	0.5	0.2	7.7	91.9	75.4	31.2	9.3	1.4	0.0		
	Total	19.3	1.1	0.4	0.1	4.2	66.4	74.8	47.1	23.2	5.6	0.8		
1996	Cases	2,845	1	2	1	5	345	688	614	820	320	26	23	
	Female	2,168	2	3	2	64	844	652	320	210	60	2	9	
	Unspecified	10	0	0	0	0	1	1	0	4	0	0	5	
	Total	5,023	3	5	3	69	1,189	1,341	934	1,034	380	28	37	
	Rate	19.2	0.5	0.3	0.1	0.5	33.6	66.6	54.8	30.6	8.5	1.2		
	Female	14.3	1.1	0.4	0.2	6.5	86.4	65.0	29.0	8.0	1.6	0.1		
	Total	16.8	0.8	0.3	0.2	3.4	59.4	65.9	42.0	19.5	5.0	0.6		
1997	Cases	2,651	0	0	0	3	327	592	571	778	333	30	17	
	Female	1,780	1	0	1	50	688	570	229	185	49	4	3	
	Unspecified	11	0	0	0	0	2	2	0	1	0	1	7	
	Total	4,442	1	0	1	53	1,015	1,164	800	964	382	35	27	
	Rate	17.7	0.0	0.0	0.0	0.3	31.5	57.4	51.4	29.2	8.5	1.4		
	Female	11.6	0.6	0.0	0.1	5.0	69.7	56.9	21.0	7.1	1.3	0.1		
	Total	14.7	0.3	0.0	0.1	2.6	50.1	57.2	36.3	18.3	4.9	0.7		

* Rate per 100,000 population. Population estimates provided by Statistics Canada.

† 1997 rates are considered preliminary and are expected to change.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 2.2

Reported Gonorrhoea Cases and Rates* in Canada by Province/Territory and Sex, 1987-1993

Year		Total	Age Group (years)												
			Nfld	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
1987	Cases	14,755	152	13	251	268	1,973	5,077	1,585	968	2,158	1,565	68	677	
	Female	12,923	102	20	356	203	1,697	4,596	1,306	816	1,949	1,355	57	466	
	Total†	27,918	258	39	609	471	3,897	9,673	2,891	1,784	4,107	2,920	125	1,144	
1988	Cases	112.0	52.5	20.3	56.5	73.8	58.7	106.0	290.4	186.6	174.8	102.5	496.5	2,306.1	
	Female	96.7	35.5	30.8	78.8	55.2	49.2	93.9	235.4	157.6	161.2	88.1	464.0	1,771.7	
	Total†	105.2	44.8	30.2	67.9	64.5	57.3	99.9	262.7	172.1	168.1	95.3	481.1	2,055.4	
1989	Cases	10,381	89	10	197	104	1,342	4,149	1,115	669	1,285	1,119	62	240	
	Female	9,501	59	13	346	139	1,227	3,680	1,015	601	1,272	1,015	38	208	
	Total†	20,102	151	23	543	243	2,785	7,829	2,018	1,270	2,557	2,135	100	448	
1990	Cases	77.8	30.8	15.5	44.2	28.6	39.7	84.9	203.5	129.7	103.3	71.8	438.3	810.7	
	Female	70.1	20.6	19.9	76.2	26.2	35.3	73.7	162.2	116.5	104.3	64.6	298.2	780.7	
	Total†	74.7	26.2	17.7	60.3	33.1	40.6	79.2	182.7	123.1	103.8	68.3	371.9	796.3	
1991	Cases	10,278	41	5	156	61	948	5,169	819	551	1,015	781	62	670	
	Female	8,778	37	10	295	87	694	4,081	721	449	962	712	35	695	
	Total†	19,110	80	15	451	148	1,694	9,250	1,540	1,000	1,977	1,493	97	1,365	
1992	Cases	75.7	14.2	7.7	34.8	16.6	27.2	103.0	149.2	107.8	80.3	48.9	431.4	2,218.6	
	Female	63.6	12.9	15.2	64.4	23.4	19.7	79.5	129.4	87.7	77.6	44.2	269.1	2,542.7	
	Total†	69.8	13.9	11.5	49.7	20.1	24.4	91.1	139.2	97.8	78.9	46.5	354.3	2,372.6	
1993	Cases	7,681	27	6	120	36	1,182	3,569	571	448	625	818	48	231	
	Female	6,024	22	3	190	26	695	2,552	408	308	630	682	37	224	
	Total†	13,822	49	10	310	62	1,966	6,148	1,079	903	1,255	1,500	85	455	
1994	Cases	55.7	9.3	9.2	26.6	9.8	34.2	69.8	103.8	88.8	48.5	49.8	326.9	743.2	
	Female	43.0	7.6	4.5	41.2	6.9	19.5	48.8	91.0	89.9	49.7	41.2	277.3	792.2	
	Total†	49.7	8.5	7.6	34.0	8.3	28.0	59.5	97.3	89.3	49.1	45.5	303.3	766.6	
1995	Cases	7,086	10	3	105	32	953	3,100	697	442	757	744	44	199	
	Female	5,352	15	3	189	21	417	2,274	598	404	630	584	33	184	
	Total†	12,457	25	6	294	53	1,380	5,381	1,295	846	1,387	1,330	77	383	
1996	Cases	50.8	3.4	4.6	23.2	8.6	27.3	59.9	126.2	88.1	57.7	44.2	288.7	621.5	
	Female	37.7	5.2	4.5	40.7	5.6	11.6	42.9	106.8	80.1	48.9	34.4	237.2	628.3	
	Total†	44.3	4.3	4.6	32.0	7.1	19.5	51.4	116.4	84.1	53.3	39.4	264.2	624.8	
1997	Cases	5,148	9	2	69	15	618	2,188	702	360	598	456	8	123	
	Female	4,093	4	1	126	9	264	1,707	557	357	576	336	5	151	
	Total†	9,253	13	3	196	24	891	3,897	1,259	717	1,174	792	13	274	
1998	Cases	36.4	3.1	3.1	15.1	4.0	17.5	41.6	126.6	71.7	44.8	26.4	50.7	376.4	
	Female	28.4	1.4	1.5	26.9	2.4	7.3	31.7	99.0	70.6	43.9	19.2	34.5	505.4	
	Total†	32.4	2.2	2.3	21.2	3.2	12.4	36.6	112.7	71.1	44.4	22.8	42.9	438.0	
1999	Cases	3,738	2	0	29	6	458	1,691	487	247	427	312	9	70	
	Female	3,086	1	0	61	2	217	1,341	436	243	404	254	14	113	
	Total†	6,832	3	0	90	8	680	3,035	923	490	831	566	23	183	
2000	Cases	26.0	0.7	0.0	6.3	1.6	12.8	31.6	87.3	49.0	31.6	17.6	56.8	211.2	
	Female	21.1	0.3	0.0	13.0	0.5	5.9	24.5	77.0	47.9	30.3	14.1	95.9	370.3	
	Total†	23.6	0.5	0.0	9.7	1.1	9.4	27.1	82.1	48.5	30.9	15.8	75.6	287.4	

* Rate per 100,000 population. Population estimates provided by Statistics Canada.

† Totals include cases not specified for sex.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 2.2

Reported Gonorrhoea Cases and Rates* in Canada by Province/Territory and Sex, 1994-1997†

Year		Total	Age Group (years)												
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
1994	Cases	3,478	1	0	13	6	504	1,760	394	188	266	298	7	41	
	Female	2,645	2	0	22	7	225	1,328	335	189	240	189	6	102	
	Total†	6,167	3	0	35	13	735	3,123	729	377	506	490	13	143	
1995	Cases	24.0	0.3	0.0	2.8	1.6	14.0	32.6	70.3	19.5	16.3	16.3	45.9	121.9	
	Female	17.9	0.7	0.0	4.7	1.8	6.1	24.0	58.8	17.8	10.2	10.2	41.6	328.3	
	Total	21.1	0.5	3.7	1.7	10.1	18.6	28.6	64.5	13.4	13.4	13.4	43.8	221.0	
1996	Cases	3,322	2	0	15	7	425	1,719	376	208	223	296	11	40	
	Female	2,385	2	0	23	7	165	1,264	282	178	177	193	9	85	
	Total	5,715	4	0	38	14	595	2,983	658	386	400	492	20	125	
1997	Cases	22.6	0.7	0.0	3.2	1.9	11.8	31.4	66.7	41.2	16.1	15.8	72.0	117.3	
	Female	16.0	0.7	0.0	4.8	1.8	8.1	22.5	49.2	34.8	13.0	10.2	60.6	268.0	
	Total	19.3	0.7	4.1	1.8	8.1	26.9	57.9	57.9	38.0	14.6	13.1	66.4	189.9	
1996	Cases	2,845	2	1	30	10	325	1,304	305	216	247	354	3	48	
	Female	2,168	0	0	67	31	144	1,008	249	188	225	172	7	77	
	Total	5,023	2	1	97	41	478	2,312	554	404	472	527	10	125	
1997	Cases	19.2	0.7	1.5	6.5	2.7	8.9	23.5	53.8	42.5	17.6	18.5	18.6	138.5	
	Female	14.3	0.0	0.0	14.0	8.0	3.8	17.7	43.2	36.5	16.2	8.9	45.7	241.2	
	Total	16.8	0.4	10.3	5.4	6.5	20.5	48.4	48.4	39.5	16.9	13.7	31.8	187.8	
1997	Cases	2,651	2	1	32	1	403	1,143	227	154	270	349	0	69	
	Female	1,780	1	0	70	36	128	775	201	146	219	125	0	79	
	Total	4,442	3	1	102	37	538	1,919	428	300	489	477	0	148	
1997	Cases	17.7	0.7	1.5	6.9	0.3	11.0	20.3	40.0	30.3	18.8	17.9	0.0	197.0	
	Female	11.6	0.4	0.0	14.5	9.3	3.4	13.4	34.8	28.3	15.5	6.3	0.0	243.0	
	Total	14.7	0.5	10.8	4.9	7.3	16.8	37.4	37.4	29.3	17.2	12.1	0.0	219.2	

* Rate per 100,000 population. Population estimates provided by Statistics Canada.

† 1997 numbers are preliminary and are expected to change.

‡ Totals include cases not specified for sex.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 3.1

Reported Infectious Syphilis* Cases and Rates† in Canada by Age Group and Sex, 1993-1997†

Year		Total	Age Group (years)													60+	NS
			0<1	1-4	5-9	10-14	15-19	20-24	25-29	30-39	40-59	60+	NS				
1993	Cases	104	0	0	0	0	0	3	19	17	26	30	5	4			
	Female	79	0	0	0	0	11	23	12	15	10	5	2				
	Unspecified	5	0	0	0	0	1	0	0	0	0	0	4				
1993	Rate	0.7	0.0	0.0	0.0	0.0	0.3	1.8	1.4	1.0	0.9	0.2	0.2				
	Female	0.5	0.0	0.0	0.0	0.0	1.2	2.2	1.0	0.6	0.3	0.2	0.2				
	Total	0.6	0.0	0.0	0.0	0.8	2.0	1.2	0.8	0.6	0.2	0.2	0.2				
1994	Cases	112	1	0	0	0	2	14	21	31	31	12	0				
	Female	73	0	0	0	0	10	17	10	17	12	5	0				
	Unspecified	6	0	0	0	0	1	1	1	1	0	1	2				
1994	Rate	0.8	0.5	0.0	0.0	0.0	0.2	1.3	1.8	1.2	0.9	0.6	0.6				
	Female	0.5	0.0	0.0	0.0	0.0	1.0	1.7	1.1	0.7	0.3	0.2	0.2				
	Total	0.6	0.3	0.0	0.0	0.6	1.6	1.5	0.9	0.6	0.4	0.4	0.4				
1995	Cases	90	0	0	0	0	2	14	14	30	24	5	2				
	Female	55	0	0	0	0	11	12	12	11	9	0	0				
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0				
1995	Rate	0.6	0.0	0.0	0.0	0.0	0.2	1.4	1.2	1.1	0.7	0.2	0.2				
	Female	0.4	0.0	0.0	0.0	0.0	1.0	1.2	1.1	0.4	0.2	0.0	0.0				
	Total	0.5	0.0	0.0	0.0	0.6	1.3	1.2	0.8	0.5	0.1	0.1	0.1				
1996	Cases	74	0	0	0	0	3	7	13	27	21	2	1				
	Female	49	0	0	0	0	9	9	14	11	5	1	0				
	Unspecified	0	0	0	0	0	0	0	0	0	0	0	0				
1996	Rate	0.5	0.0	0.0	0.0	0.0	0.3	0.7	1.2	1.0	0.6	0.1	0.1				
	Female	0.3	0.0	0.0	0.0	0.0	0.9	0.9	1.3	0.4	0.1	0.0	0.0				
	Total	0.4	0.0	0.0	0.0	0.6	0.8	0.8	1.2	0.7	0.3	0.1	0.1				
1997	Cases	68	0	0	0	0	1	5	8	27	26	1	0				
	Female	49	0	0	0	0	2	9	10	19	7	2	0				
	Total	117	0	0	0	0	3	14	18	46	33	3	0				
1997	Rate	0.5	0.0	0.0	0.0	0.0	0.1	0.5	0.7	2.1	1.9	0.1	0.1				
	Female	0.3	0.0	0.0	0.0	0.0	0.2	0.5	0.9	1.5	0.5	0.2	0.2				
	Total	0.4	0.0	0.0	0.0	0.2	0.7	0.7	1.8	1.8	1.2	0.1	0.1				

* Infectious syphilis: early symptomatic (primary and secondary) syphilis + early latent syphilis

† Rate per 100,000 population. Population estimates provided by Statistics Canada.

‡ 1997 numbers are preliminary and are expected to change.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

		Appendix 3.2															
		Reported Infectious Syphilis* Cases and Rates** in Canada by Province/Territory and Sex, 1993-1997†															
Year		Total	Age Group (years)													YUK	NWT
			NFLD	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC					
1993	Cases	104	0	0	6	0	13	65	2	3	5	8	0	0	0		
	Female	79	0	0	9	0	7	55	1	2	1	3	0	0			
	Total‡	188	0	0	15	0	20	125	3	5	6	11	0	0			
	Rate	0.7	0.0	0.0	1.3	0.0	0.4	1.2	0.4	0.6	0.4	0.5	0.0	0.0			
	Female	0.5	0.0	0.0	1.9	0.0	0.2	1.0	0.4	0.2	0.1	0.2	0.0	0.0			
	Total	0.6	0.0	0.0	1.6	0.0	0.3	1.2	0.3	0.5	0.2	0.3	0.0	0.0			
1994	Cases	118	0	0	11	3	18	55	3	11	5	9	0	0			
	Female	73	1	1	13	4	2	35	1	7	3	3	1	0			
	Total	191	1	1	24	7	20	93	4	18	8	14	1	0			
	Rate	0.8	0.0	0.0	2.4	0.8	0.5	1.0	0.5	2.2	0.4	0.5	0.0	0.0			
	Female	0.5	0.3	0.3	2.7	1.0	0.1	0.6	0.2	1.4	0.2	0.2	6.9	0.0			
	Total	0.7	0.2	0.2	2.6	0.9	0.3	0.9	0.4	1.8	0.3	0.4	3.4	0.0			
1995	Cases	90	1	0	1	1	6	58	3	9	3	8	0	0			
	Female	55	0	0	0	0	7	34	1	10	1	2	0	0			
	Total	145	1	0	1	1	13	92	4	19	4	10	0	0			
	Rate	0.6	0.3	0.0	0.2	0.3	0.2	1.1	0.5	1.8	0.2	0.4	0.0	0.0			
	Female	0.4	0.0	0.0	0.0	0.0	0.2	0.6	0.2	2.0	0.1	0.1	0.0	0.0			
	Total	0.5	0.2	0.0	0.1	0.1	0.2	0.8	0.4	1.9	0.1	0.3	0.0	0.0			
1996	Cases	74	0	0	1	0	11	41	1	4	0	16	0	0			
	Female	49	0	0	2	0	1	37	0	6	0	3	0	0			
	Total	123	0	0	3	0	12	78	1	10	0	19	0	0			
	Rate	0.5	0.0	0.2	0.2	0.0	0.3	0.7	0.2	0.8	0.0	0.8	0.0	0.0			
	Female	0.3	0.0	0.4	0.0	0.0	0.0	0.7	0.0	1.2	0.0	0.2	0.0	0.0			
	Total	0.4	0.0	0.3	0.0	0.0	0.2	0.7	0.1	1.0	0.0	0.5	0.0	0.0			
1997	Cases	68	0	0	0	0	4	29	0	1	5	29	0	0			
	Female	49	0	0	1	0	3	20	0	1	5	19	0	0			
	Total	117	0	0	1	0	7	49	0	2	10	48	0	0			
	Rate	0.5	0.0	0.0	0.0	0.0	0.1	0.2	0.0	0.2	0.4	1.5	0.0	0.0			
	Female	0.3	0.0	0.0	0.2	0.0	0.1	0.1	0.0	0.2	0.4	1.0	0.0	0.0			
	Total	0.4	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.2	0.4	1.2	0.0	0.0			

* Infectious syphilis: early symptomatic (primary and secondary) syphilis + early latent syphilis
 ** Rate per 100,000 population. Population estimates provided by Statistics Canada.
 † 1997 numbers are preliminary and are expected to change.
 ‡ Totals not specified for sex.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 3.3 Reported Early Symptomatic (primary and secondary) Syphilis Cases and Rates* in Canada by Sex, 1980-1997†											
Year	Male		Female		Total‡	Year	Male		Female		Total
1980	Cases	981	157	1,140	1989	Cases	142	97	239		
	Rate	8.0	1.3	4.6		Rate	1.0	0.7	0.9		
1981	Cases	920	133	1,053	1990	Cases	197	103	302		
	Rate	7.4	1.1	4.2		Rate	1.4	0.7	1.1		
1982	Cases	866	100	966	1991	Cases	222	143	365		
	Rate	6.9	0.8	3.8		Rate	1.6	1.0	1.3		
1983	Cases	986	144	1,130	1992	Cases	138	117	256		
	Rate	7.8	1.1	4.4		Rate	1.0	0.8	0.9		
1984	Cases	1,169	265	1,435	1993	Cases	67	48	119		
	Rate	9.1	2.1	5.6		Rate	0.5	0.3	0.4		
1985	Cases	761	143	904	1994	Cases	90	47	140		
	Rate	5.9	1.1	3.5		Rate	0.6	0.3	0.5		
1986	Cases	445	145	590	1995	Cases	64	39	111		
	Rate	3.4	1.1	2.3		Rate	0.4	0.3	0.4		
1987	Cases	285	110	400	1996	Cases	48	33	81		
	Rate	2.2	0.8	1.5		Rate	0.3	0.2	0.3		
1988	Cases	223	81	308	1997	Cases	51	33	85		
	Rate	1.7	0.6	1.1		Rate	0.3	0.2	0.3		

* Rate per 100,000 population. Population estimates provided by Statistics Canada.

† 1997 numbers are considered preliminary and are expected to change.

‡ Totals include cases not specified for sex.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 3.4

Reported Congenital Syphilis Cases in Canada by Province/Territory, 1992-1997*

Year	Total Cases	Rate†	Province/Territory												
			Nfld	PEI	NS	NB	QUE	ONT	MAN	SASK	ALTA	BC	YUK	NWT	
1992	4	1.01	0	0	0	0	1	3	0	0	0	0	0	0	0
1993	4	1.03	0	0	0	0	2	2	0	0	0	0	0	0	0
1994	3	0.78	0	0	0	0	0	2	0	0	0	0	1	0	0
1995	2	0.53	0	0	0	0	0	2	0	0	0	0	0	0	0
1996	1	0.27	0	0	0	0	0	0	0	0	0	0	1	0	0
1997	2	0.55	0	0	0	0	0	0	0	0	0	0	0	2	0

* 1997 numbers are preliminary and are expected to change.

† Rate per 100,000 age-specific population. Population estimates provided by Statistics Canada.

Source: Health Canada, Laboratory Centre for Disease Control, Bureau of HIV/AIDS, STD & TB. © 1999

Appendix 4

Rates* of Pelvic Inflammatory Disease in Canada by Age Group, 1983-84 to 1994-95

Age Group	1983-84		1984-85		1985-86		1986-87		1987-88		1988-89		1989-90		1990-91		1991-92		1992-93		1993-94		1994-95	
	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate	Cases	Rate
15-19	2,891	269.6	2,868	280.2	2,634	267.2	2,650	273.1	2,368	247.2	2,249	236.2	1,993	210.0	1,803	190.5	1,567	166.5	1,387	147.0	1,046	110.2	940	98.2
20-24	4,802	386.0	4,797	385.9	4,607	373.4	4,243	351.5	3,723	319.7	3,197	286.8	2,660	245.3	2,319	219.3	2,046	196.4	1,778	171.6	1,459	141.7	1,225	120.7
25-34	7,269	323.1	7,320	319.5	7,143	306.0	7,101	298.5	6,951	286.3	6,246	252.8	5,721	226.6	5,359	210.5	4,881	192.7	4,343	172.1	3,700	147.9	3,090	125.5
35-44	2,552	154.7	2,664	155.0	2,711	151.9	2,735	147.8	2,710	140.9	2,604	130.4	2,275	109.2	2,609	120.4	2,591	116.0	2,616	114.5	2,359	100.7	2,315	96.6
Total	17,514	281.8	17,649	281.2	17,095	269.7	16,729	261.1	15,752	243.3	14,296	218.8	12,649	190.5	12,090	180.0	11,085	164.3	10,124	149.2	8,564	125.5	7,570	110.8

* Rate per 100,000 females

Source: Canadian Institute for Health Information and Statistics Canada